ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926749	20112	42268	846	281

Description

6500736879 guab:mj1616 inosine-5-monophosphate dehydrogenase::inosine-5-monophosphate dehydrogenase:imp dehydrogenase:impdh:impd (gtcfc:4.1) (ec:1.1.1.205) (keggfc:4.1) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ1616 MJ1616 Methanococcus jannaschii 2190 -11540737 119748 guab:mj1616 (ec:1.1.1.205) (de:dehydrogenase) (impdh) (impd)) (db:swissprot) IMDH_METJA Q59011 METHANOCOCCUS JANNASCHII 2190 -11540737 174294 imp dehydrogenase (cl:imp dehydrogenase:cbs homology) (ec:1.1.1.205) (db:pir2.dat) (mp:for1591580-1593070) G64501 G64501 Methanococcus jannaschii 2190 -11540737 248049 mj1616 inosine-5-monophosphate dehydrogenase:guab (db:genpept-bct1) (de:methanococcus jannaschii section 144 of 150 of the complete genome.) (nt:similar to sp:p42851 percent identity: 61.68;) (le:140) (re:1630) (di:direct) U67602 U67602 g1592337 Methanococcus jannaschii 2190 -11540737 5000697972 (de:(mj1616) (pn:imp dehydrogenase:impdh:impd:inosine-5"-monophosphate dehydrogenase) (gn:guab) (gtcfc:4.1) (ec:1.1.1.205) (imdh_metja) (keggfc:4.1) (tigrfc:8.2) (db:gtc-methanococcus jannaschii)) MJ1616 MJ1616 Methanococcus jannaschii 2190 10062426

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926758	20113	42269	234	77

Description

6500736880 phosphoribosylformylglycinamidine synthase i::purq:phosphoribosylformylglycinamidine synthase i (gtcfc:4.1) (ec:6.3.5.3) (keggfc:4.1) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ1648 MJ1648 Methanococcus jannaschii 2190 -11540738 174426 phosphoribosylformylglycinamidine synthase:i (cl:phosphoribosylformylglycinamidine synthase component i) (ec:6.3.5.3) (db:pir2.dat) (mp:for1629578-1630270) F64505 F64505 Methanococcus jannaschii 2190 -11540738 248080 mj1648 phosphoribosylformylglycinamidine synthase i (db:genpept-bct1) (de:methanococcus jannaschii section 147 of 150 of the complete genome.) (nt:similar to gb:j02732 sp:p12041 pid:143368) (le:2539) (re:3231) (di:direct) U67605 U67605 g1592231 Methanococcus jannaschii 2190 -11540738 5000697973 (de:(mj1648) (pn:phosphoribosylformylglycinamidine synthase i) (gtcfc:4.1) (ec:6.3.5.3) (keggfc:4.1) (tigrfc:8.2) (db:gtc-methanococcus jannaschii)) MJ1648 MJ1648 Methanococcus jannaschii 2190 10072926

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926759	20114	42270	273	90

Description

6500736881 apt:mj1655 adenine phosphoribosyltransferase:aprt (gtcfc:4.1:4.4) (ec:2.4.2.7) (keggfc:4.1) (tigrfc:8.5) (db:gtc-methanococcus jannaschii) MJ1655 MJ1655 Methanococcus jannaschii 2190 -11540739 120963 apt:mj1655 (ec:2.4.2.7) (de:adenine phosphoribosyltransferase, (aprt)) (db:swissprot) APT_METJA Q59049 METHANOCOCCUS JANNASCHII 2190 -11540739 172941 adenine phosphoribosyltransferase (ec:2.4.2.7) (db:pir2.dat) (mp:for1637715-1638266) E64506 E64506 Methanococcus jannaschii 2190 -11540739 248087 mj1655 adenine phosphoribosyltransferase apt (db:genpept-bct1) (de:methanococcus jannaschii section 148 of 150 of the complete genome.) (nt:similar to pid:1147592 pid:758290 sp:p52561 percent) (le:753) (re:1304) (di:direct) U67606 U67606 g1592237 Methanococcus jannaschii 2190 -11540739 5000697974 (de:(mj1655) (pn:aprt:adenine phosphoribosyltransferase) (gn:apt) (gtcfc:4.1) (ec:2.4.2.7) (apt_metja) (keggfc:4.1) (tigrfc:8.4) (db:gtc-methanococcus jannaschii)) MJ1655 MJ1655 Methanococcus jannaschii 2190 10064168

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926760	20115	42271	666	221

Description

5000697975 inosine-5-monophosphate dehydrogenase::guab:hypothetical protein (gtcfc:4.1) (keggfc:14.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ0188 MJ0188 Methanococcus jannaschii 2190 -11540740 118833 mj0188 (de:hypothetical protein mj0188) (db:swissprot) Y188_METJA Q57647 METHANOCOCCUS JANNASCHII 2190 -11540740 173386 conserved hypothetical protein mj0188 (cl:conserved hypothetical protein mj0188:cbs homology) (db:pir2.dat) (mp:rev186674-185877) E64323 E64323 Methanococcus jannaschii 2190 -11540740 246623 mj0188 inosine-5-monophosphate dehydrogenase (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:similar to sp:p42851 percent identity: 24.38;) (le:4547) (re:5344) (di:complement) U67475 U67475 g1498962 Methanococcus jannaschii 2190 -11540740 6500736882 inosine-5-monophosphate dehydrogenase::guab:hypothetical protein (gtcfc:4.1) (keggfc:14.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ0188 MJ0188 Methanococcus jannaschii 2190 -11540740

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926763	20116	42272	606	201

Description

5000698832 inosine-5-monophosphate dehydrogenase:guab:hypothetical protein (gtcfc:4.1) (keggfc:14.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ0653 MJ0653 Methanococcus jannaschii 2190 -11540741 4000708396 mj0653 (de:hypothetical protein mj0653) (db:swissprot) Y653_METJA Q58069 METHANOCOCCUS JANNASCHII 2190 -11540741 173237 yhcv homolog mj0653 (cl:conserved hypothetical protein yhcv:cbs homology) (db:pir2.dat) (mp:for581423-582007) E64381 E64381 Methanococcus jannaschii 2190 -11540741 247087 mj0653 inosine-5-monophosphate dehydrogenase guab (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:similar to pid:1002715 sp:p50100 percent identity:) (le:521) (re:1105) (di:direct) U67513 U67513 g1592300 Methanococcus jannaschii 2190 -11540741 6500736883 inosine-5-monophosphate dehydrogenase:guab:hypothetical protein (gtcfc:4.1) (keggfc:14.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ0653 MJ0653 Methanococcus jannaschii 2190 -11540741

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926769	20117	42273	594	197

Description

5000698947 inosine-5-monophosphate dehydrogenase:guab:hypothetical protein (gtcfc:4.1) (keggfc:14.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ0868 MJ0868 Methanococcus jannaschii 2190 -11540742 5500686441 mj0868 (de:hypothetical protein mj0868) (db:swissprot) Y868_METJA Q58278 METHANOCOCCUS JANNASCHII 2190 -11540742 173249 hypothetical protein homolog mj0868 (db:pir2.dat) (mp:rev791743-791360) D64408 D64408 Methanococcus jannaschii 2190 -11540742 247302 mj0868 inosine-5-monophosphate dehydrogenase guab (db:genpept-bct1) (de:methanococcus jannaschii section 72 of 150 of the complete genome.) (nt:similar to gp:1001427 percent identity: 33.61;) (le:9435) (re:9818) (di:complement) U67530 U67530 g1591551 Methanococcus jannaschii 2190 -11540742 6500736884 inosine-5-monophosphate dehydrogenase:guab:hypothetical protein (gtcfc:4.1) (keggfc:14.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ0868 MJ0868 Methanococcus jannaschii 2190 -11540742

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926793	20118	42274	648	215

Description

5000697979 inosine-5-monophosphate dehydrogenase::guab:hypothetical protein (gtcfc:4.1) (keggfc:14.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ1426 MJ1426 Methanococcus jannaschii 2190 -11540743 118876 mj1426 (de:hypothetical protein mj1426) (db:swissprot) YE26_METJA Q58821 METHANOCOCCUS JANNASCHII 2190 -11540743 173271 hypothetical protein homolog mj1426 (cl:conserved hypothetical protein yhcv:cbs homology) (db:pir2.dat) (mp:for1396048-1396554) A64478 A64478 Methanococcus jannaschii 2190 -11540743 247859 mj1426 inosine-5-monophosphate dehydrogenase:guab (db:genpept-bct1) (de:methanococcus jannaschii section 125 of 150 of the complete genome.) (nt:similar to gp:1001427 percent identity: 38.93;) (le:10144) (re:10650) (di:direct) U67583 U67583 g1592076 Methanococcus jannaschii 2190 -11540743 6500736885 inosine-5-monophosphate dehydrogenase::guab:hypothetical protein (gtcfc:4.1) (keggfc:14.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ1426 MJ1426 Methanococcus jannaschii 2190 -11540743

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926801	20119	42275	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926808	20120	42276	420	139

Description

6500736886 purt:phosphoribosylglycinamide formyltransferase 2 (gtcfc:4.1) (ec:2.1.2.-) (keggfc:14.1) (tigrfc:8.3) (db:gtc-methanococcus jannaschii) MJ1486 MJ1486 Methanococcus jannaschii 2190 -11540744 5000697980 purt:mj1486 (ec:2.1.2.-) (de:transformylase 2) (formate-dependent gar transformylase)) (db:swissprot) PURT_METJA Q58881 METHANOCOCCUS JANNASCHII 2190 -11540744 174428 phosphoribosylglycinamide formyltransferase:2 (cl:phosphoribosylaminoimidazole carboxylase carbon dioxide-fixation chain:phosphoribosylaminoimidazole carboxylase carbon dioxide-fixation chain homology) (ec:2.1.2.-) (db:pir2.dat) (mp:rev1458908-1457727) E64485 E64485 Methanococcus jannaschii 2190 -11540744 247919 mj1486 phosphoribosylglycinamide formyltransferase 2 (db:genpept-bct1) (de:methanococcus jannaschii section 131 of 150 of the complete genome.) (nt:similar to gb:x78962 sp:p39771 pid:534939) (le:8170) (re:9351) (di:complement) U67589 U67589 g1592123 Methanococcus jannaschii 2190 -11540744

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926829	20121	42277	273	90

Description

6500736887 conserved hypothetical protein:orotidine 5 monophosphate decarboxylase (gtcfc:4.2:14.1) (ec:4.1.1.23) (keggfc:4.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0252 MJ0252 Methanococcus jannaschii 2190 -11540745 500684998 mj0252 (de:hypothetical protein mj0252) (db:swissprot) Y252_METJA Q57700 METHANOCOCCUS JANNASCHII 2190 -11540745 173411 hypothetical protein mj0252 (cl:hypothetical protein mj0252) (db:pir2.dat) (mp:for238786-239490) E64331 E64331 Methanococcus jannaschii 2190 -11540745 246687 mj0252 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to sp:p42405 pid:710637 pid:1805418) (le:6715) (re:7419) (di:direct) U67480 U67480 g1590982 Methanococcus jannaschii 2190 -11540745 5000698588 (de:(mj0252) (pn:hypothetical protein mj0252:hypothetical protein:p42405) (gtcfc:13.7:14.1) (ec:) (keggfc:11.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii)) MJ0252 MJ0252 Methanococcus jannaschii 2190 10061224

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926843	20122	42278	366	121

Description

6500736888 thymidylate kinase:tmk:probable thymidylate kinase:dtmp kinase (gtcfc:4.2:4.4) (ec:2.7.4.9) (keggfc:4.2) (tigrfc:8.2) (db:gtc-methanococcus jannaschii) MJ0293 MJ0293 Methanococcus jannaschii 2190 -11540746 119849 mj0293 (ec:2.7.4.9) (de:probable thymidylate kinase, (dtmp kinase)) (db:swissprot) KTHY_METJA Q57741 METHANOCOCCUS JANNASCHII 2190 -11540746 173082 dtmp kinase::thymidylate kinase (cl:dtmp kinase) (ec:2.7.4.9) (db:pir2.dat) (mp:for275602-276168) F64336 F64336 Methanococcus jannaschii 2190 -11540746 246728 mj0293 thymidylate kinase tmk (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:similar to sp:p36590 percent identity: 31.18;) (le:4438) (re:5004) (di:direct) U67484 U67484 g1591015 Methanococcus jannaschii 2190 -11540746 5000697982 (de:(mj0293) (pn:probable thymidylate kinase:dtmp kinase:thymidylate kinase) (gtcfc:4.2) (ec:2.7.4.9) (kthy_metja) (keggfc:4.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ0293 MJ0293 Methanococcus jannaschii 2190 10062577

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926853	20123	42279	252	83

Description

6500736889 deoxycytidine triphosphate deaminase:dcd:putative deoxycytidine triphosphate deaminase:dctp deaminase (gtcfc:4.2) (ec:3.5.4.13) (keggfc:4.2) (tigrfc:8.1) (db:gtc-methanococcus jannaschii) (tigrfc:purines, pyrimidines, nucleosides, and nucleotides-2'-deoxyribonucleotide metabolism) MJ0430 MJ0430 Methanococcus jannaschii 2190 -11540747 4000709018 mj0430 (ec:3.5.4.13) (de:deaminase)) (db:swissprot) DCD_METJA Q57872 METHANOCOCCUS JANNASCHII 2190 -11540747 173043 deoxycytidine triphosphate deaminase (db:pir2.dat) (mp:rev386963-386349) F64353 F64353 Methanococcus jannaschii 2190 -11540747 246864 mj0430 deoxycytidine triphosphate deaminase dcd (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44534 pid:1003168) (le:9810) (re:10424) (di:complement) U67494 U67494 g1591133 Methanococcus jannaschii 2190 -11540747 5000697983 (de:(mj0430) (pn:deoxycytidine triphosphate deaminase) (gtcfc:4.2) (ec:3.5.4.13) (keggfc:4.2) (tigrfc:8.1) (db:gtc-methanococcus jannaschii)) MJ0430 MJ0430 Methanococcus jannaschii 2190 10091465

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926859	20124	42280	312	103

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926865	20125	42281	957	318

Description

GTC ORF with score 493 to: (or:Agrostemma githago) (sr:corn cockle) (db:genpept-pln1) (ec:1.6.6.1) (de:agrostemma githago nitrate reductase (agnr1) mrna, partial cds.) (nt:nadh; similar to agnr2 product encoded by genbank) (le:<1) (re:1890) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926876	20126	42282	1623	540

Description

6500736890 pyrd:mj0654 dihydroorotase dehydrogenase:dihydroorotate dehydrogenase:dihydroorotate oxidase:dhodehase (gtcfc:4.2) (ec:1.3.3.1) (keggfc:4.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ0654 MJ0654 Methanococcus jannaschii 2190 -11540748 4000709556 pyrd:mj0654 (ec:1.3.3.1) (de:(dhodehase)) (db:swissprot) PYRD_METJA Q58070 METHANOCOCCUS JANNASCHII 2190 -11540748 173055 dihydroorotate oxidase (cl:dihydroorotate oxidase) (ec:1.3.3.1) (db:pir2.dat) (mp:rev582996-582076) F64381 F64381 Methanococcus jannaschii 2190 -11540748 247088 mj0654 dihydroorotase dehydrogenase pyrd (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:similar to gb:m59757 sp:p25996 pid:143392) (le:1174) (re:2094) (di:complement) U67513 U67513 g1591367 Methanococcus jannaschii 2190 -11540748 5000697984 (de:(mj0654) (pn:dihydroorotase dehydrogenase) (gtcfc:4.2) (ec:1.3.3.1) (keggfc:4.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ0654 MJ0654 Methanococcus jannaschii 2190 10091473

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926877	20127	42283	438	145

Description

6500736891 cmk:cytidylate kinase (gtcfc:4.2:4.4) (ec:2.7.4.14) (keggfc:4.2) (tigrfc:8.2) (db:gtc-methanococcus jannaschii) MJ0656 MJ0656 Methanococcus jannaschii 2190 -11540749 4000708397 cmk:mj0656 (ec:2.7.4.14) (de:(cmp kinase)) (db:swissprot) KCY_METJA Q58071 METHANOCOCCUS JANNASCHII 2190 -11540749 173040 cytidylate kinase (cl:methanococcus jannaschii cytidylate kinase) (ec:2.7.4.14) (db:pir2.dat) (mp:for583524-584060) H64381 H64381 Methanococcus jannaschii 2190 -11540749 247090 mj0656 cytidylate kinase cmk (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:similar to sp:p38493 gb:u11687 pid:533105) (le:2622) (re:3158) (di:direct) U67513 U67513 g1591369 Methanococcus jannaschii 2190 -11540749 5000697985 (de:(mj0656) (pn:cytidylate kinase) (gtcfc:4.2) (ec:2.7.4.14) (keggfc:4.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ0656 MJ0656 Methanococcus jannaschii 2190 10091462

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926886	20128	42284	801	266

Description

6500736892 dcd:deoxycytidine triphosphate deaminase:putative (gtcfc:4.2) (ec:3.5.4.13) (keggfc:4.2) (tigrfc:8.1) (db:gtc-methanococcus jannaschii) (tigrfc:purines, pyrimidines, nucleosides, and nucleotides-2'-deoxyribonucleotide metabolism) MJ1102 MJ1102 Methanococcus jannaschii 2190 -11540750 173044 deoxycytidine triphosphate deaminase homolog (db:pir2.dat) (mp:for1043233-1043718) E64437 E64437 Methanococcus jannaschii 2190 -11540750 247535 mj1102 deoxycytidine triphosphate deaminase:putative (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:similar to sp:q02103 gb:x63438 pid:40785 percent) (le:2830) (re:3315) (di:direct) U67553 U67553 g1591747 Methanococcus jannaschii 2190 -11540750 5000697986 (de:(mj1102) (pn:deoxycytidine triphosphate deaminase, putative) (gtcfc:4.2) (ec:3.5.4.13) (keggfc:4.2) (tigrfc:8.1) (db:gtc-methanococcus jannaschii)) MJ1102 MJ1102 Methanococcus jannaschii 2190 10091466

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926888	20129	42285	651	216

Description

6500736893 orotate phosphoribosyl transferase:pyre:uridine 5-monophosphate synthase (gtcfc:4.2) (ec:2.4.2.10) (keggfc:4.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1109 MJ1109 Methanococcus jannaschii 2190 -11540751 174611 uridine 5-monophosphate synthase (cl:methanococcus jannaschii uridine 5'-monophosphate synthase) (db:pir2.dat) (mp:for1050488-1051018) D64438 D64438 Methanococcus jannaschii 2190 -11540751 247542 mj1109 orotate phosphoribosyl transferase pyre (db:genpept-bct1) (de:methanococcus jannaschii section 96 of 150 of the complete genome.) (nt:similar to sp:p09556 percent identity: 38.37;) (le:180) (re:710) (di:direct) U67554 U67554 g1592320 Methanococcus jannaschii 2190 -11540751 5000697987 (de:(mj1109) (pn:uridine 5"-monophosphate synthase) (gtcfc:4.2) (ec:2.4.2.10) (keggfc:4.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1109 MJ1109 Methanococcus jannaschii 2190 10092508

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926898	20130	42286	582	193

Description

GTC ORF with score 240 to: (fn:involved in rhamnolipids synthesis) (db:genpept-bct2) (de:pseudomonas aeruginosa ctra, beta-ketoacyl reductase (rhlg), andregulator protein (rcsf) genes, complete cds.) (nt:rhlg) (le:1723) (re:2757) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926911	20131	42287	441	146

Description

GTC ORF with score 107 to: (sr:mice macrophage) (db:genpept-rod) (de:putative transcription regulator {clone t2, repetitive sequence}(mice, macrophage, mrna, 1263 nt).) (nt:method: conceptual translation supplied by author.) (le:55) (re:732) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926920	20132	42288	3381	1126

Description

6500736894 pyrg:mj1174 ctp synthase:utp--ammonia ligase:ctp synthetase (gtcfc:4.2) (ec:6.3.4.2) (keggfc:4.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1174 MJ1174 Methanococcus jannaschii 2190 -11540752 1500686124 pyrg:mj1174 (ec:6.3.4.2) (de:ctp synthase, (utp--ammonia ligase) (ctp synthetase)) (db:swissprot) PYRG_METJA Q58574 METHANOCOCCUS JANNASCHII 2190 -11540752 173039 ctp synthase (cl:ctp synthase) (ec:6.3.4.2) (db:pir2.dat) (mp:rev1113703-1112081) E64446 E64446 Methanococcus jannaschii 2190 -11540752 247607 mj1174 ctp synthase pyrg (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44341 pid:1006352) (le:644) (re:2266) (di:complement) U67559 U67559 g1591801 Methanococcus jannaschii 2190 -11540752 5000697988 (de:(mj1174) (pn:ctp synthase) (gtcfc:4.2) (ec:6.3.4.2) (keggfc:4.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1174 MJ1174 Methanococcus jannaschii 2190 10060471

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926936	20133	42289	282	93

Description

6500736895 pyri:aspartate carbamoyltransferase regulatory chain (gtcfc:4.2:5.2) (ec:2.1.3.2) (keggfc:4.2:5.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1406 MJ1406 Methanococcus jannaschii 2190 -11540753 7500889185 pyri:mj1406 (de:aspartate carbamoyltransferase regulatory chain) (db:swissprot) PYRI_METJA Q58801 METHANOCOCCUS JANNASCHII 2190 -11540753 172972 aspartate carbamoyltransferase:regulatory chain (cl:aspartate carbamoyltransferase regulatory chain) (ec:2.1.3.2) (db:pir2.dat) (mp:for1367734-1368183) E64475 E64475 Methanococcus jannaschii 2190 -11540753 7500889187 mj1406 aspartate carbamoyltransferase regulatory chain (db:genpept-bct1) (de:methanococcus jannaschii section 123 of 150 of the complete genome.) (nt:similar to gb:u14003 sp:p00478 gb:j01670 gb:k01472) (le:1809) (re:2258) (di:direct) U67581 U67581 g1592055 Methanococcus jannaschii 2190 -11540753 247839 mju67581 (le:1367734) (re:1368183) (di:direct) (de:or:methanococcus jannaschii pn:aspartate carbamoyltransferase regulatory chain gn:mj1406 le:1809 re:2258 di:direct nt:similar to p00478 percent identity: 36.1;) U67581 U67581 g1592055 Methanococcus jannaschii 2190 -11540753 5000697989 (de:(mj1406) (pn:aspartate carbamoyltransferase regulatory chain) (gtcfc:4.2:5.2) (ec:2.1.3.2) (keggfc:4.2:5.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1406 MJ1406 Methanococcus jannaschii 2190 10091420

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926938	20134	42290	582	193

Description

6500736896 pyrc:dihydroorotase (gtcfc:4.2) (ec:3.5.2.3) (keggfc:4.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1490 MJ1490 Methanococcus jannaschii 2190 -11540754 7500889151 pyrc:mj1490 (ec:3.5.2.3) (de:dihydroorotase, (dhoase)) (db:swissprot) PYRC_METJA Q58885 METHANOCOCCUS JANNASCHII 2190 -11540754 173054 dihydroorotase (cl:bacillus dihydroorotase homology) (ec:3.5.2.3) (db:pir2.dat) (mp:for1464331-1465602) A64486 A64486 Methanococcus jannaschii 2190 -11540754 7500889153 mj1490 dihydroorotase pyrc (db:genpept-bct1) (de:methanococcus jannaschii section 132 of 150 of the complete genome.) (nt:similar to gb:x73308 sp:p46538 pid:312441 percent) (le:2809) (re:4080) (di:direct) U67590 U67590 g1500377 Methanococcus jannaschii 2190 -11540754 247923 mju67590 (le:1464331) (re:1465602) (di:direct) (de:or:methanococcus jannaschii pn:dihydroorotase gn:mj1490 le:2809 re:4080 di:direct nt:similar to p46538 percent identity: 34.4;) U67590 U67590 g1500377 Methanococcus jannaschii 2190 -11540754 5000697990 (de:(mj1490) (pn:dihydroorotase) (gtcfc:4.2) (ec:3.5.2.3) (keggfc:4.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1490 MJ1490 Methanococcus jannaschii 2190 10091472

jc542 U.S. PTO 09/417507 10/14/99

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926942	20135	42291	915	304

Description

6500736897 thioredoxin reductase:trxb (gtcfc:9.13) (ec:1.6.4.5) (keggfc:4.2) (tigrfc:8.1) (db:gtc-methanococcus jannaschii) (tigrfc:purines, pyrimidines, nucleosides, and nucleotides-2'-deoxyribonucleotide metabolism) MJ1536 MJ1536 Methanococcus jannaschii 2190 -11540755 174563 thioredoxin reductase nadph (cl:thioredoxin reductase:thioredoxin reductase homology) (ec:1.6.4.5) (db:pir1.dat) (mp:rev1514708-1513803) G64491 G64491 Methanococcus jannaschii 2190 -11540755 247969 mj1536 thioredoxin reductase trxb (db:genpept-bct1) (de:methanococcus jannaschii section 136 of 150 of the complete genome.) (nt:similar to gb:u02197 gb:l43967 sp:p47348) (le:6810) (re:7715) (di:complement) U67594 U67594 g1592167 Methanococcus jannaschii 2190 -11540755 5000697991 (de:(mj1536) (pn:thioredoxin reductase) (gtcfc:4.2) (ec:1.6.4.5) (keggfc:4.2) (tigrfc:2.9) (db:gtc-methanococcus jannaschii)) MJ1536 MJ1536 Methanococcus jannaschii 2190 10092487

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926944	20136	42292	621	206

Description

6500736898 pyrb:aspartate carbamoyltransferase catalytic chain (gtcfc:4.2:5.2) (ec:2.1.3.2) (keggfc:4.2:5.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1581 MJ1581 Methanococcus jannaschii 2190 -11540756 7500889140 pyrb:mj1581 (ec:2.1.3.2) (de:transcarbamylase) (atcase)) (db:swissprot) PYRB_METJA Q58976 METHANOCOCCUS JANNASCHII 2190 -11540756 172971 aspartate carbamoyltransferase:catalytic chain (cl:ornithine carbamoyltransferase:aspartate/ornithine carbamoyltransferase homology) (ec:2.1.3.2) (db:pir2.dat) (mp:for1555760-1556680) D64497 D64497 Methanococcus jannaschii 2190 -11540756 7500889142 mj1581 aspartate carbamoyltransferase catalytic chain (db:genpept-bct1) (de:methanococcus jannaschii section 140 of 150 of the complete genome.) (nt:similar to gp:1572497 percent ident: 59.12;) (le:5078) (re:5998) (di:direct) U67598 U67598 g1500476 Methanococcus jannaschii 2190 -11540756 248014 mju67598 (le:1555760) (re:1556680) (di:direct) (de:or:methanococcus jannaschii pn:aspartate carbamoyltransferase catalytic chain gn:mj1581 le:5078 re:5998 di:direct nt:similar to p00479 percent identity: 50.0;) U67598 U67598 g1500476 Methanococcus jannaschii 2190 -11540756 5000697992 (de:(mj1581) (pn:aspartate carbamoyltransferase catalytic chain) (gtcfc:4.2:5.2) (ec:2.1.3.2) (keggfc:4.2:5.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1581 MJ1581 Methanococcus jannaschii 2190 10091419

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926947	20137	42293	654	217

Description

5000698307 thymidylate synthase:thya:deoxyuridylate hydroxymethylase (gtcfc:4.2) (keggfc:14.2) (tigrfc:8.1) (db:gtc-methanococcus jannaschii) (tigrfc:purines, pyrimidines, nucleosides, and nucleotides-2'-deoxyribonucleotide metabolism) MJ0511 MJ0511 Methanococcus jannaschii 2190 -11540757 7500893623 mj0511 (ec:2.1.1.45) (de:thymidylate synthase, (ts)) (db:swissprot) TYSY_METJA Q57931 METHANOCOCCUS JANNASCHII 2190 -11540757 173046 deoxyuridylate hydroxymethylase (db:pir2.dat) (mp:rev452953-452285) G64363 G64363 Methanococcus jannaschii 2190 -11540757 7500893625 mj0511 thymidylate synthase thya (db:genpept-bct1) (de:methanococcus jannaschii section 43 of 150 of the complete genome.) (nt:similar to gp:1103708 percent ident: 39.38;) (le:869) (re:1537) (di:complement) U67501 U67501 g1591214 Methanococcus jannaschii 2190 -11540757 6500736899 thymidylate synthase:thya:deoxyuridylate hydroxymethylase (gtcfc:4.2) (keggfc:14.2) (tigrfc:8.1) (db:gtc-methanococcus jannaschii) MJ0511 MJ0511 Methanococcus jannaschii 2190 -11540757 246945 mju67501 (le:452285) (re:452953) (di:direct) (de:or:methanococcus jannaschii pn:deoxyuridylate hydroxymethylase gn:mj0511 le:869 re:1537 di:complement nt:similar to x92082_2 percent identity: 39.4;) U67501 U67501 g1591214 Methanococcus jannaschii 2190 -11540757

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926950	20138	42294	510	169

Description

6500736900 cara:mj1019 carbamoyl-phosphate synthase:small:or glutamine subunit:carbamoyl-phosphate synthase small chain:carbamoyl-phosphate synthetase glutamine chain (gtcfc:4.2:5.1) (ec:6.3.5.5) (keggfc:5.1) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1019 MJ1019 Methanococcus jannaschii 2190 -11540758 172996 carbamoyl-phosphate synthase:small chain (cl:carbamoyl-phosphate synthase (glutamine-hydrolyzing) small chain:carbamoyl-phosphate synthase (glutamine-hydrolyzing) small chain homology:trpg homology) (ec:6.3.-.-) (db:pir2.dat) (mp:for949249-950325) B64427 B64427 Methanococcus jannaschii 2190 -11540758 4000709545 cara:mj1019 (ec:6.3.5.5) (de:phosphate synthetase glutamine chain)) (db:swissprot) CARA_METJA Q58425 METHANOCOCCUS JANNASCHII 2190 -11540758 247452 mju67544 (le:949249) (re:950325) (di:direct) (de:or:methanococcus jannaschii pn:carbamoyl-phosphate synthase, small chain gn:mj1019 le:7379 re:8455 di:direct nt:similar to p25993 percent identity: 48.6;) U67544 U67544 g1591677 Methanococcus jannaschii 2190 -11540758 5000697998 (de:(mj1019) (pn:carbamoyl-phosphate synthase, small chain) (gtcfc:5.1) (ec:6.3.5.5) (keggfc:5.1) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1019 MJ1019 Methanococcus jannaschii 2190 10091437

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926963	20139	42295	951	316

Description

6500736901 carbamoyl-phosphate synthase:medium subunit:carb1:carbamoyl-phosphate synthase:large chain (gtcfc:4.2:5.1) (ec:6.3.5.5) (keggfc:5.1) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1378 MJ1378 Methanococcus jannaschii 2190 -11540759 172994 carbamoyl-phosphate synthase:large chain (cl:carbamoyl-phosphate synthase large chain:biotin carboxylase homology) (ec:6.3.-.-) (db:pir2.dat) (mp:for1326866-1328329) A64472 A64472 Methanococcus jannaschii 2190 -11540759 247811 mju67577 (le:1326866) (re:1328329) (di:direct) (de:or:methanococcus jannaschii pn:carbamoyl-phosphate synthase, large chain gn:mj1378 le:8387 re:9850 di:direct nt:similar to p25994 percent identity: 59.5;) U67577 U67577 g1592023 Methanococcus jannaschii 2190 -11540759 5000698000 (de:(mj1378) (pn:carbamoyl-phosphate synthase, large chain) (gtcfc:5.1) (ec:6.3.5.5) (keggfc:5.1) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1378 MJ1378 Methanococcus jannaschii 2190 10091435

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926968	20140	42296	489	162

Description

6500736902 carbamoyl-phosphate synthase:large subunit:carb2:carbamoyl-phosphate synthase:pyrimidine-specific:large subunit (gtcfc:4.2:5.1) (ec:6.3.5.5) (keggfc:5.1) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1381 MJ1381 Methanococcus jannaschii 2190 -11540760 172995 carbamoyl-phosphate synthase:pyrimidine-specific:large subunit (cl:biotin carboxylase homology) (ec:6.3.-.-) (db:pir2.dat) (mp:for1329182-1331038) D64472 D64472 Methanococcus jannaschii 2190 -11540760 247814 mj1381 carbamoyl-phosphate synthase:large subunit (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to gb:d10483 sp:p00968 gb:j01597 gb:v01500) (le:780) (re:2636) (di:direct) U67578 U67578 g1592027 Methanococcus jannaschii 2190 -11540760 5000697994 (de:(mj1381) (pn:carbamoyl-phosphate synthase, pyrimidine-specific, large subunit) (gtcfc:4.2) (ec:) (keggfc:11.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1381 MJ1381 Methanococcus jannaschii 2190 10091436

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926971	20141	42297	1164	387

Description

5000697995 pyrimidine biosynthesis protein:putative:m (gtcfc:4.2) (keggfc:14.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1646 MJ1646 Methanococcus jannaschii 2190 -11540761 174206 hypothetical protein mj1646 (cl:conserved hypothetical protein mj1646) (db:pir2.dat) (mp:for1628443-1629078) D64505 D64505 Methanococcus jannaschii 2190 -11540761 248078 mj1646 pyrimidine biosynthesis protein:putative (db:genpept-bct1) (de:methanococcus jannaschii section 147 of 150 of the complete genome.) (nt:similar to gp:340170 percent identity: 31.30;) (le:1404) (re:2039) (di:direct) U67605 U67605 g1500547 Methanococcus jannaschii 2190 -11540761 6500736903 pyrimidine biosynthesis protein:putative:m (gtcfc:4.2) (keggfc:14.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii) MJ1646 MJ1646 Methanococcus jannaschii 2190 -11540761

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926984	20142	42298	2037	678

Description

GTC ORF with score 160 to: (sr:thale cress) (db:genpept-pln1) (de:arabidopsis thaliana chromosome ii bac t28m21 genomic sequence,complete sequence.) (nt:unknown protein) (le:97328:98826:99416) (re:98518:98940:99530) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926990	20143	42299	300	99

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501926994	20144	42300	414	137

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927004	20145	42301	657	218

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927009	20146	42302	1695	564

Description

6500736904 strd:glucose-1-phosphate thymidylyltransferase (gtcfc:4.3:11.2) (ec:2.7.7.24) (keggfc:4.3) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1101 MJ1101 Methanococcus jannaschii 2190 -11540762 173139 glucose-1-phosphate thymidylyltransferase (cl:mannose-1-phosphate guanylyltransferase) (ec:2.7.7.24) (db:pir2.dat) (mp:for1041905-1043131) D64437 D64437 Methanococcus jannaschii 2190 -11540762 247534 mj1101 glucose-1-phosphate thymidylyltransferase (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:similar to sp:p08075 gb:s59665 gb:x62567 pid:49261) (le:1502) (re:2728) (di:direct) U67553 U67553 g1591746 Methanococcus jannaschii 2190 -11540762 5000697996 (de:(mj1101) (pn:glucose-1-phosphate thymidylyltransferase) (gtcfc:4.3) (ec:2.7.7.24) (keggfc:4.3) (tigrfc:8.5) (db:gtc-methanococcus jannaschii)) MJ1101 MJ1101 Methanococcus jannaschii 2190 10091524

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927011	20147	42303	363	120

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927023	20148	42304	528	175

Description

GTC ORF with score 102 to: (db:genpept-inv) (de:heterodera glycines beta-1,4-endoglucanase-1 precursor (hg-eng-1)gene, complete cds.) (nt:specifically expressed in soybean cyst nematode) (le:2516:2826:3058:3230) (re:2740:3008:3177:3348) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927028	20149	42305	444	147

Description

6500736905 uridylate kinase:pyrh:putative uridylate kinase:uk:uridine monophosphate kinase:ump kinase (gtcfc:4.4) (ec:2.7.4.-) (keggfc:14.1) (tigrfc:8.2) (db:gtc-methanococcus jannaschii) MJ1259 MJ1259 Methanococcus jannaschii 2190 -11540763 4000708765 mj1259 (ec:2.7.4.-) (de:kinase) (ump kinase)) (db:swissprot) PYRH_METJA Q58656 METHANOCOCCUS JANNASCHII 2190 -11540763 174612 uridylate kinase homolog (cl:probable uridylate kinase mth879) (db:pir2.dat) (mp:for1201101-1201823) B64457 B64457 Methanococcus jannaschii 2190 -11540763 247692 mj1259 uridylate kinase pyrh (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p43890 pid:1006328) (le:5213) (re:5935) (di:direct) U67566 U67566 g1591893 Methanococcus jannaschii 2190 -11540763 5000697993 (de:(mj1259) (pn:uridylate kinase) (gtcfc:4.2) (ec:) (keggfc:11.2) (tigrfc:8.3) (db:gtc-methanococcus jannaschii)) MJ1259 MJ1259 Methanococcus jannaschii 2190 10092509

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927041	20150	42306	714	237

Description

6500736906 mtap:methylthioadenosine phosphorylase (gtcfc:4.4) (ec:2.4.2.28) (keggfc:14.1) (tigrfc:8.5) (db:gtc-methanococcus jannaschii) MJ0060 MJ0060 Methanococcus jannaschii 2190 -11540764 117995 mj0060 (de:hypothetical protein mj0060) (db:swissprot) Y060_METJA Q60367 METHANOCOCCUS JANNASCHII 2190 -11540764 172920 5-methylthioadenosine phosphorylase (cl:5'-methylthioadenosine phosphorylase) (ec:2.4.2.28) (db:pir2.dat) (mp:for59467-60225) D64307 D64307 Methanococcus jannaschii 2190 -11540764 246494 mj0060 methylthioadenosine phosphorylase mtap (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:similar to gb:u22233 sp:q13126 pid:847724 percent) (le:621) (re:1379) (di:direct) U67464 U67464 g1498822 Methanococcus jannaschii 2190 -11540764 5000697997 (de:(mj0060) (pn:hypothetical protein mj0060:methylthioadenosine phosphorylase) (gtcfc:4.4) (ec:) (y060_metja) (keggfc:11.2) (tigrfc:8.4) (db:gtc-methanococcus jannaschii)) MJ0060 MJ0060 Methanococcus jannaschii 2190 10060002

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927053	20151	42307	243	80

Description

6500736907 gltx:mj1377 glutamyl-trna synthetase:glutamate--trna ligase:glurs (gtcfc:5.1:9.10:10.6) (ec:6.1.1.17) (keggfc:5.1:9.10:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1377 MJ1377 Methanococcus jannaschii 2190 -11540765 500685317 gltx:mj1377 (ec:6.1.1.17) (de:(glurs)) (db:swissprot) SYE_METJA Q58772 METHANOCOCCUS JANNASCHII 2190 -11540765 173144 glutamate--trna ligase::glutamyl-trna synthetase (cl:glutamine--trna ligase:glutamine--trna ligase homology) (ec:6.1.1.17) (db:pir2.dat) (mp:rev1326696-1325035) H64471 H64471 Methanococcus jannaschii 2190 -11540765 247810 mj1377 glutamyl-trna synthetase gltx (db:genpept-bct1) (de:methanococcus jannaschii section 119 of 150 of the complete genome.) (nt:similar to pid:1051202 sp:q50543 percent identity:) (le:6556) (re:8217) (di:complement) U67577 U67577 g1592022 Methanococcus jannaschii 2190 -11540765 5000697999 (de:(mj1377) (pn:glutamate--trna ligase:glurs:glutamyl-trna synthetase) (gn:gltx) (gtcfc:5.1:9.10:10.6) (ec:6.1.1.17) (sye_metja) (keggfc:5.1:9.10:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1377 MJ1377 Methanococcus jannaschii 2190 10064880

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927054	20152	42308	933	310

Description

6500736908 glucosamine--fructose-6-phosphate aminotransferase:isomerizing:glms:glutamine--fructose-6-phosphate transaminase (gtcfc:5.1:7.1) (ec:2.6.1.16) (keggfc:5.1) (tigrfc:5.2) (db:gtc-methanococcus jannaschii) MJ1420 MJ1420 Methanococcus jannaschii 2190 -11540766 5500686553 mj1420 (de:hypothetical protein mj1420) (db:swissprot) YE20_METJA Q58815 METHANOCOCCUS JANNASCHII 2190 -11540766 173147 glutamine--fructose-6-phosphate transaminase isomerizing:intein-containing (ec:2.6.1.16) (db:pir2.dat) (mp:for1382119-1385427) C64477 C64477 Methanococcus jannaschii 2190 -11540766 247853 mj1420 glucosamine--fructose-6-phosphate (db:genpept-bct1) (de:methanococcus jannaschii section 124 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p17169 pid:290577 pid:43268) (le:6293) (re:9601) (di:direct) U67582 U67582 g1592069 Methanococcus jannaschii 2190 -11540766 5000698001 (de:(mj1420) (pn:glutamine--fructose-6-phosphate transaminase) (gtcfc:5.1) (ec:2.6.1.16) (keggfc:5.1) (tigrfc:5.1) (db:gtc-methanococcus jannaschii)) MJ1420 MJ1420 Methanococcus jannaschii 2190 10091528

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927058	20153	42309	297	98

Description

6500736909 argb:mj0069 acetylglutamate kinase:probable acetylglutamate kinase:nag kinase:agk:n-acetylglutamate 5-phosphotransferase (gtcfc:5.1:5.16) (ec:2.7.2.8) (keggfc:5.16) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ0069 MJ0069 Methanococcus jannaschii 2190 -11540767 120084 argb:mj0069 (ec:2.7.2.8) (de:(n-acetylglutamate 5-phosphotransferase)) (db:swissprot) ARGB_METJA Q60382 METHANOCOCCUS JANNASCHII 2190 -11540767 172933 acetylglutamate kinase (cl:acetylglutamate kinase) (ec:2.7.2.8) (db:pir2.dat) (mp:for66007-66909) E64308 E64308 Methanococcus jannaschii 2190 -11540767 246503 mj0069 acetylglutamate kinase argb (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:similar to gb:l06036 sp:q07905 pid:304136 percent) (le:7161) (re:8063) (di:direct) U67464 U67464 g1592260 Methanococcus jannaschii 2190 -11540767 5000698042 (de:(mj0069) (pn:probable acetylglutamate kinase:nag kinase:agk:n- acetylglutamate 5-phosphotransferase:acetylglutamate kinase) (gn:argb) (gtcfc:5.16) (ec:2.7.2.8) (argb_metja) (keggfc:5.16) (tigrfc:1.3) (db:gtc-methanococcus ja) MJ0069 MJ0069 Methanococcus jannaschii 2190 10062924

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927059	20154	42310	1413	470

Description

6500736910 argj:mj0186 glutamate n-acetyltransferase:putative glutamate n-acetyltransferase:ornithine acetyltransferase:ornithine transacetylase:oatase / amino-acid acetyltransferase:n-acetylglutamate synthase:ags (gtcfc:5.1:5.16) (keggfc:5.16) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ0186 MJ0186 Methanococcus jannaschii 2190 -11540768 120086 argj:mj0186 (ec:2.3.1.35:2.3.1.1) (de:acetyltransferase, (n-acetylglutamate synthase) (ags)) (db:swissprot) ARGJ_METJA Q57645 METHANOCOCCUS JANNASCHII 2190 -11540768 173141 glutamate n-acetyltransferase (cl:glutamate n-acetyltransferase argj) (ec:2.3.1.35) (db:pir2.dat) (mp:rev185426-184218) C64323 C64323 Methanococcus jannaschii 2190 -11540768 246621 mj0186 glutamate n-acetyltransferase argj (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:similar to gb:l06036 sp:q07908 pid:304135 percent) (le:2888) (re:4096) (di:complement) U67475 U67475 g1592274 Methanococcus jannaschii 2190 -11540768 5000698043 (de:(mj0186) (pn:putative glutamate n-acetyltransferase:ornithine acetyltransferase:ornithine transacetylase:oatase :glutamate n-acetyltransferase) (gn:argj) (gtcfc:5.16) (ec:2.3.1.1) (argj_metja) (keggfc:5.16) (tigrfc:1.3) (db:) MJ0186 MJ0186 Methanococcus jannaschii 2190 10062926

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927072	20155	42311	822	273

Description

6500736911 argg:mj0429 argininosuccinate synthetase:argininosuccinate synthase:citrulline--aspartate ligase (gtcfc:5.1:5.10:5.16:5.2) (ec:6.3.4.5) (keggfc:5.2:5.10:5.16) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ0429 MJ0429 Methanococcus jannaschii 2190 -11540769 117514 argg:mj0429 (ec:6.3.4.5) (de:ligase)) (db:swissprot) ASSY_METJA Q60174 METHANOCOCCUS JANNASCHII 2190 -11540769 172967 argininosuccinate synthase (cl:argininosuccinate synthase) (ec:6.3.4.5) (db:pir2.dat) (mp:for385154-386341) E64353 E64353 Methanococcus jannaschii 2190 -11540769 246863 mj0429 argininosuccinate synthetase argg (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:similar to gb:m21315 sp:p13256 pid:150046 percent) (le:8615) (re:9802) (di:direct) U67494 U67494 g1591132 Methanococcus jannaschii 2190 -11540769 5000698006 (de:(mj0429) (pn:citrulline--aspartate ligase:argininosuccinate synthase) (gn:argg) (gtcfc:5.10:5.16:5.2) (ec:6.3.4.5) (assy_metja) (keggfc:5.2:5.10:5.16) (tigrfc:1.3) (db:gtc-methanococcus jannaschii)) MJ0429 MJ0429 Methanococcus jannaschii 2190 10059350

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927084	20156	42312	525	174

Description

6500736912 acetylornithine aminotransferase:argd:n-acetylornithine aminotransferase (gtcfc:5.1:5.16) (ec:2.6.1.11) (keggfc:5.16) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ0721 MJ0721 Methanococcus jannaschii 2190 -11540770 5500684880 argd:mj0721 (ec:2.6.1.11) (de:acetylornithine aminotransferase, (acoat)) (db:swissprot) ARGD_METJA Q58131 METHANOCOCCUS JANNASCHII 2190 -11540770 174356 n-acetylornithine aminotransferase (ec:2.6.1.-) (db:pir2.dat) (mp:for655125-656321) A64390 A64390 Methanococcus jannaschii 2190 -11540770 247155 mj0721 acetylornithine aminotransferase argd (db:genpept-bct1) (de:methanococcus jannaschii section 61 of 150 of the complete genome.) (nt:similar to gb:x78854 pid:580729 sp:p54752 percent) (le:1249) (re:2445) (di:direct) U67519 U67519 g1591438 Methanococcus jannaschii 2190 -11540770 5000698003 (de:(mj0721) (pn:n-acetylornithine aminotransferase) (gtcfc:5.1) (ec:) (keggfc:11.2) (tigrfc:1.3) (db:gtc-methanococcus jannaschii)) MJ0721 MJ0721 Methanococcus jannaschii 2190 10092400

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927104	20157	42313	648	215

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927138	20158	42314	2100	699

Description

6500736913 argh:mj0791 argininosuccinate lyase:arginosuccinase:asal (gtcfc:5.1:5.10:5.16:5.2) (ec:4.3.2.1) (keggfc:5.2:5.10:5.16) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ0791 MJ0791 Methanococcus jannaschii 2190 -11540771 117500 argh:mj0791 (ec:4.3.2.1) (de:argininosuccinate lyase, (arginosuccinase) (asal)) (db:swissprot) ARLY_METJA Q58201 METHANOCOCCUS JANNASCHII 2190 -11540771 172966 argininosuccinate lyase (cl:argininosuccinate lyase) (ec:4.3.2.1) (db:pir2.dat) (mp:rev715177-713723) G64398 G64398 Methanococcus jannaschii 2190 -11540771 247225 mj0791 argininosuccinate lyase argh (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:similar to sp:p11447 gb:j01590 gb:m21446 pid:145335) (le:7650) (re:9104) (di:complement) U67523 U67523 g1591489 Methanococcus jannaschii 2190 -11540771 5000698008 (de:(mj0791) (pn:arginosuccinase:asal:argininosuccinate lyase) (gn:argh) (gtcfc:5.10:5.16:5.2) (ec:4.3.2.1) (arly_metja) (keggfc:5.2:5.10:5.16) (tigrfc:1.3) (db:gtc-methanococcus jannaschii)) MJ0791 MJ0791 Methanococcus jannaschii 2190 10059326

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927173	20159	42315	288	95

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927176	20160	42316	561	186

Description

GTC ORF with score 399 to: (db:genpept-pln2) (de:emericella nidulans spindle assembly checkpoint protein slda (slda)gene, complete cds.) (nt:similar to saccharomyces cerevisiae) (le:127:1227:1721) (re:1119:1662:3942) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927180	20161	42317	663	220

Description

GTC ORF with score 656 to: (db:genpept-pln2) (de:emericella nidulans spindle assembly checkpoint protein slda (slda)gene, complete cds.) (nt:similar to saccharomyces cerevisiae) (le:127:1227:1721) (re:1119:1662:3942) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927208	20162	42318	1314	437

Description

GTC ORF with score 1437 to: (db:genpept-pln2) (de:emericella nidulans spindle assembly checkpoint protein slda (slda)gene, complete cds.) (nt:similar to saccharomyces cerevisiae) (le:127:1227:1721) (re:1119:1662:3942) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927209	20163	42319	1743	580

Description

GTC ORF with score 1700 to: (db:genpept-pln2) (de:emericella nidulans spindle assembly checkpoint protein slda (slda)gene, complete cds.) (nt:similar to saccharomyces cerevisiae) (le:127:1227:1721) (re:1119:1662:3942) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927238	20164	42320	369	122

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927239	20165	42321	756	251

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927263	20166	42322	1299	432

Description

6500736914 argf:mj0881 ornithine carbamoyltransferase:otcase (gtcfc:5.1:5.10:5.16) (ec:2.1.3.3) (keggfc:5.10:5.16) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ0881 MJ0881 Methanococcus jannaschii 2190 -11540772 500685195 argf:mj0881 (ec:2.1.3.3) (de:ornithine carbamoyltransferase, (otcase)) (db:swissprot) OTC_METJA Q58291 METHANOCOCCUS JANNASCHII 2190 -11540772 174394 ornithine carbamoyltransferase (cl:ornithine carbamoyltransferase:aspartate/ornithine carbamoyltransferase homology) (ec:2.1.3.3) (db:pir2.dat) (mp:rev807432-806515) A64410 A64410 Methanococcus jannaschii 2190 -11540772 247315 mj0881 ornithine carbamoyltransferase argf (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:similar to sp:p18186 gb:x53360 pid:39811 pid:408120) (le:3512) (re:4429) (di:complement) U67532 U67532 g1592314 Methanococcus jannaschii 2190 -11540772 5000698009 (de:(mj0881) (pn:otcase:ornithine carbamoyltransferase) (gn:argf) (gtcfc:5.10:5.16) (ec:2.1.3.3) (otc_metja) (keggfc:5.10:5.16) (tigrfc:1.3) (db:gtc-methanococcus jannaschii)) MJ0881 MJ0881 Methanococcus jannaschii 2190 10063812

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927269	20167	42323	1776	591

Description

6500736915 argc:n-acetyl-gamma-glutamyl-phosphate reductase (gtcfc:5.1:5.16) (ec:1.2.1.38) (keggfc:5.16) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ1096 MJ1096 Methanococcus jannaschii 2190 -11540773 7500877121 argc:mj1096 (ec:1.2.1.38) (de:acetyl-glutamate semialdehyde dehydrogenase) (nagsa dehydrogenase)) (db:swissprot) ARGC_METJA Q58496 METHANOCOCCUS JANNASCHII 2190 -11540773 174354 n-acetyl-gamma-glutamyl-phosphate reductase (cl:n-acetyl-gamma-glutamyl-phosphate reductase) (ec:1.2.1.38) (db:pir2.dat) (mp:rev1036979-1035852) G64436 G64436 Methanococcus jannaschii 2190 -11540773 7500877123 mj1096 n-acetyl-gamma-glutamyl-phosphate reductase (db:genpept-bct1) (de:methanococcus jannaschii section 94 of 150 of the complete genome.) (nt:similar to gb:z26919 sp:p23715 gb:m15420 gb:x52834) (le:5063) (re:6190) (di:complement) U67552 U67552 g1591740 Methanococcus jannaschii 2190 -11540773 247529 mju67552 (le:1035852) (re:1036979) (di:direct) (de:or:methanococcus jannaschii pn:n-acetyl-gamma-glutamyl-phosphate reductase gn:mj1096 le:5063 re:6190 di:complement nt:similar to p23715 percent identity: 40.4;) U67552 U67552 g1591740 Methanococcus jannaschii 2190 -11540773 5000698044 (de:(mj1096) (pn:n-acetyl-gamma-glutamyl-phosphate reductase) (gtcfc:5.16) (ec:1.2.1.38) (keggfc:5.16) (tigrfc:1.3) (db:gtc-methanococcus jannaschii)) MJ1096 MJ1096 Methanococcus jannaschii 2190 10092398

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927284	20168	42324	243	80

Description

5000699288 acetylornithine deacetylase:arge:m (gtcfc:5.1) (keggfc:14.2) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ1497 MJ1497 Methanococcus jannaschii 2190 -11540774 174111 hypothetical protein mj1497 (db:pir2.dat) (mp:for1469713-1470753) H64486 H64486 Methanococcus jannaschii 2190 -11540774 247930 mj1497 acetylornithine deacetylase arge (db:genpept-bct1) (de:methanococcus jannaschii section 132 of 150 of the complete genome.) (nt:similar to sp:p23908 gb:x55417 gb:x62807 pid:396304) (le:8191) (re:9231) (di:direct) U67590 U67590 g1592133 Methanococcus jannaschii 2190 -11540774 6500736916 acetylornithine deacetylase:arge:m (gtcfc:5.1) (keggfc:14.2) (tigrfc:1.4) (db:gtc-methanococcus jannaschii) MJ1497 MJ1497 Methanococcus jannaschii 2190 -11540774

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927306	20169	42325	840	279

Description

6500736917 args:mj0237 arginyl-trna synthetase:arginine--trna ligase:argrs (gtcfc:5.10:10.6) (ec:6.1.1.19) (keggfc:5.10:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0237 MJ0237 Methanococcus jannaschii 2190 -11540775 121548 args:mj0237 (ec:6.1.1.19) (de:arginyl-trna synthetase, (arginine--trna ligase) (argrs)) (db:swissprot) SYR_METJA Q57689 METHANOCOCCUS JANNASCHII 2190 -11540775 172965 arginine--trna ligase::arginyl-trna synthetase (cl:bacillus arginine--trna ligase) (ec:6.1.1.19) (db:pir2.dat) (mp:for228023-229723) F64329 F64329 Methanococcus jannaschii 2190 -11540775 246672 mj0237 arginyl-trna synthetase args (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:similar to percent identity: 31.21; identified by) (le:6574) (re:8274) (di:direct) U67479 U67479 g1590971 Methanococcus jannaschii 2190 -11540775 5000698004 (de:(mj0237) (pn:arginine--trna ligase:argrs:arginyl-trna synthetase) (gn:args) (gtcfc:5.10:10.6) (ec:6.1.1.19) (syr_metja) (keggfc:5.10:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ0237 MJ0237 Methanococcus jannaschii 2190 10064935

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927314	20170	42326	1863	620

Description

6500736918 agmatinase:speb:agmatine ureohydrolase (gtcfc:5.10:5.16) (ec:3.5.3.11) (keggfc:5.10) (tigrfc:5.5) (db:gtc-methanococcus jannaschii) MJ0309 MJ0309 Methanococcus jannaschii 2190 -11540776 117497 mj0309 (de:hypothetical protein mj0309) (db:swissprot) Y309_METJA Q57757 METHANOCOCCUS JANNASCHII 2190 -11540776 172947 agmatinase::ureohydrolase (cl:methanococcus jannaschii agmatinase) (ec:3.5.3.11) (db:pir2.dat) (mp:rev290135-289281) F64338 F64338 Methanococcus jannaschii 2190 -11540776 246744 mj0309 agmatinase speb (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to gb:m34778 sp:p19268 pid:522148 percent) (le:8082) (re:8936) (di:complement) U67485 U67485 g1591030 Methanococcus jannaschii 2190 -11540776

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927315	20171	42327	555	184

Description

6500736919 spermidine synthase:spee:putrescine aminopropyltransferase:spdsy (gtcfc:12.1:13.11) (ec:2.5.1.16) (keggfc:5.10:5.16:6.1) (tigrfc:5.5) (db:gtc-methanococcus jannaschii) MJ0313 MJ0313 Methanococcus jannaschii 2190 -11540777 1500687048 mj0313 (ec:2.5.1.16) (de:aminopropyltransferase) (spdsy)) (db:swissprot) SPEE_METJA Q57761 METHANOCOCCUS JANNASCHII 2190 -11540777 174547 spermidine synthase (cl:spermidine synthase) (ec:2.5.1.16) (db:pir2.dat) (mp:rev293438-292557) B64339 B64339 Methanococcus jannaschii 2190 -11540777 246748 mj0313 spermidine synthase spee (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:similar to gb:d26562 sp:p09158 gb:j02804 pid:147852) (le:1479) (re:2360) (di:complement) U67486 U67486 g1591033 Methanococcus jannaschii 2190 -11540777 5000698005 (de:(mj0313) (pn:spermidine synthase) (gtcfc:5.10:5.16:6.1) (ec:2.5.1.16) (keggfc:5.10:5.16:6.1) (tigrfc:5.4) (db:gtc-methanococcus jannaschii)) MJ0313 MJ0313 Methanococcus jannaschii 2190 10063471

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927317	20172	42328	207	68

Description

6500736920 acetylpolyamine aminohydrolase:apha:acetylpolyamine aminohydolase (gtcfc:5.10:5.11:7.1:9.4:9.5:13.11) (ec:3.5.1.-) (keggfc:4.4:5.10:5.11:9.4:9.5) (tigrfc:5.5) (db:gtc-methanococcus jannaschii) MJ0535 MJ0535 Methanococcus jannaschii 2190 -11540778 7500895389 mj0535 (de:hypothetical protein mj0535) (db:swissprot) Y535_METJA Q57955 METHANOCOCCUS JANNASCHII 2190 -11540778 172934 acetylpolyamine aminohydolase (cl:rpd3/acuc homology) (db:pir2.dat) (mp:rev471360-470329) G64366 G64366 Methanococcus jannaschii 2190 -11540778 7500895391 mj0535 acetylpolyamine aminohydrolase apha (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to gb:d10463 pid:520593 percent ident:) (le:8903) (re:9934) (di:complement) U67502 U67502 g1591238 Methanococcus jannaschii 2190 -11540778 246969 mju67502 (le:470329) (re:471360) (di:direct) (de:or:methanococcus jannaschii pn:acetylpolyamine aminohydolase gn:mj0535 le:8903 re:9934 di:complement nt:similar to d10463_1 percent identity: 33.2;) U67502 U67502 g1591238 Methanococcus jannaschii 2190 -11540778 5000698007 (de:(mj0535) (pn:acetylpolyamine aminohydolase) (gtcfc:5.10:5.11:7.1:9.4) (ec:3.5.1.-) (keggfc:4.4:5.10:5.11:9.4) (tigrfc:5.4) (db:gtc-methanococcus jannaschii)) MJ0535 MJ0535 Methanococcus jannaschii 2190 10091402

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927318	20173	42329	339	112

Description

6500736921 amidase:putative amidase (gtcfc:5.10:5.13:5.14:6.5:11.4) (ec:3.5.1.4) (keggfc:5.10:5.13:5.14:6.5) (tigrfc:3.2) (db:gtc-methanococcus jannaschii) MJ1160 MJ1160 Methanococcus jannaschii 2190 -11540779 117439 mj1160 (ec:3.5.1.4) (de:putative amidase,) (db:swissprot) AMID_METJA Q58560 METHANOCOCCUS JANNASCHII 2190 -11540779 172952 amidase (cl:indoleacetamide hydrolase) (db:pir2.dat) (mp:for1100672-1101976) G64444 G64444 Methanococcus jannaschii 2190 -11540779 247593 mj1160 amidase (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:similar to gb:m74531 pid:152052 pid:580673 percent) (le:3513) (re:4817) (di:direct) U67558 U67558 g1500015 Methanococcus jannaschii 2190 -11540779 5000698010 (de:(mj1160) (pn:putative amidase:amidase) (gtcfc:5.10:6.5) (ec:3.5.1.4) (amid_metja) (keggfc:5.10:6.5) (tigrfc:3.2) (db:gtc-methanococcus jannaschii)) MJ1160 MJ1160 Methanococcus jannaschii 2190 10059240

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927397	20174	42330	3042	1013

Description

6500736922 pros:mj1238 prolyl-trna synthetase:proline--trna ligase:prors (gtcfc:5.10:10.6) (ec:6.1.1.15) (keggfc:5.10:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1238 MJ1238 Methanococcus jannaschii 2190 -11540780 500685332 pros:mj1238 (ec:6.1.1.15) (de:prolyl-trna synthetase, (proline--trna ligase) (prors)) (db:swissprot) SYP_METJA Q58635 METHANOCOCCUS JANNASCHII 2190 -11540780 174451 proline--trna ligase (cl:proline--trna ligase pros) (ec:6.1.1.15) (db:pir2.dat) (mp:rev1184555-1183188) E64454 E64454 Methanococcus jannaschii 2190 -11540780 247671 mj1238 prolyl-trna synthetase pros (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:similar to gb:x54326 gb:x07466 sp:p07814 pid:31958) (le:7895) (re:9262) (di:complement) U67564 U67564 g1591870 Methanococcus jannaschii 2190 -11540780 5000698011 (de:(mj1238) (pn:proline--trna ligase:prors:prolyl-trna synthetase) (gn:pros) (gtcfc:5.10:10.6) (ec:6.1.1.15) (syp_metja) (keggfc:5.10:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1238 MJ1238 Methanococcus jannaschii 2190 10064931

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927408	20175	42331	1830	609

Description

6500736923 hise:mj0302 phosphoribosyl-amp cyclohydrolase/phosphoribosyl-atp pyrophosphohydrolase:hisie:probable phosphoribosyl-amp cyclohydrolase (gtcfc:5.11) (ec:3.5.4.19) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ0302 MJ0302 Methanococcus jannaschii 2190 -11540781 500685023 hise:mj0302 (ec:3.6.1.39) (de:phosphoribosyl-atp cyclohydrolase,) (db:swissprot) HIS2_METJA Q57750 METHANOCOCCUS JANNASCHII 2190 -11540781 174420 phosphoribosyl-amp cyclohydrolase:homolog (ec:3.5.4.19) (db:pir2.dat) (mp:rev285437-285150) G64337 G64337 Methanococcus jannaschii 2190 -11540781 246737 mj0302 phosphoribosyl-amp (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to sp:p06989 gb:d43637 gb:u02072 gb:x03974) (le:3951) (re:4238) (di:complement) U67485 U67485 g1591025 Methanococcus jannaschii 2190 -11540781 5000698020 (de:(mj0302) (pn:phosphoribosyl-atp pyrophosphohydrolase) (gtcfc:5.11) (ec:) (keggfc:11.2) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ0302 MJ0302 Methanococcus jannaschii 2190 10061250

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927410	20176	42332	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927411	20177	42333	1758	585

Description

6500736924 hisf:mj0411 imidazoleglycerol-phosphate synthase:cyclase subunit:protein:cyclase (gtcfc:5.11) (ec:2.4.2.-) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ0411 MJ0411 Methanococcus jannaschii 2190 -11540782 4000709069 hisf:mj0411 (de:hisf protein (cyclase)) (db:swissprot) HIS6_METJA Q57854 METHANOCOCCUS JANNASCHII 2190 -11540782 174292 imidazoleglycerol-phosphate synthase cyclase (cl:cyclase hisf) (db:pir2.dat) (mp:for370910-371728) C64351 C64351 Methanococcus jannaschii 2190 -11540782 246845 mj0411 imidazoleglycerol-phosphate synthase:cyclase (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:similar to sp:p10373 pid:41714 pid:598474 gb:u00096) (le:5464) (re:6282) (di:direct) U67493 U67493 g1591117 Methanococcus jannaschii 2190 -11540782 5000698012 (de:(mj0411) (pn:imidazoleglycerol-phosphate synthase:cyclase) (gn:cyclase) (gtcfc:5.11) (ec:2.4.2.-) (keggfc:5.11) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ0411 MJ0411 Methanococcus jannaschii 2190 10092355

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927417	20178	42334	294	97

Description

6500736925 hish:mj0506 imidazole glycerol phosphate synthase:subunit h:amidotransferase (gtcfc:5.11) (ec:2.4.2.-) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ0506 MJ0506 Methanococcus jannaschii 2190 -11540783 4000707996 hish:mj0506 (ec:2.4.2.-) (de:amidotransferase hish,) (db:swissprot) HIS5_METJA Q57929 METHANOCOCCUS JANNASCHII 2190 -11540783 174291 imidazoleglycerol-phosphate synthase amidotransferase (cl:amidotransferase hish) (db:pir2.dat) (mp:rev447719-447123) B64363 B64363 Methanococcus jannaschii 2190 -11540783 246940 mj0506 imidazole glycerol phosphate synthase:subunit h (db:genpept-bct1) (de:methanococcus jannaschii section 42 of 150 of the complete genome.) (nt:similar to sp:p10375 pid:41712 gb:u00096) (le:5828) (re:6424) (di:complement) U67500 U67500 g1591209 Methanococcus jannaschii 2190 -11540783 5000698013 (de:(mj0506) (pn:imidazoleglycerol-phosphate synthase:amidotransferase) (gn:amidotransferase) (gtcfc:5.11) (ec:2.4.2.-) (keggfc:5.11) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ0506 MJ0506 Methanococcus jannaschii 2190 10092354

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927419	20179	42335	1485	494

Description

6500736926 hisb:mj0698 imidazoleglycerol-phosphate dehydrogenase/histidinol-phosphatase:probable imidazoleglycerol-phosphate dehydratase:igpd (gtcfc:5.11) (ec:4.2.1.19) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ0698 MJ0698 Methanococcus jannaschii 2190 -11540784 500684942 hisb:mj0698 (ec:4.2.1.19) (de:probable imidazoleglycerol-phosphate dehydratase, (igpd)) (db:swissprot) HIS7_METJA Q58109 METHANOCOCCUS JANNASCHII 2190 -11540784 174290 imidazoleglycerol-phosphate dehydratase (cl:imidazoleglycerol-phosphate dehydratase:imidazoleglycerol-phosphate dehydratase homology) (ec:4.2.1.19) (db:pir2.dat) (mp:for623409-624002) B64387 B64387 Methanococcus jannaschii 2190 -11540784 247132 mj0698 imidazoleglycerol-phosphate (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to sp:p06987 gb:x03416 pid:41696 pid:41711) (le:7991) (re:8584) (di:direct) U67516 U67516 g1591413 Methanococcus jannaschii 2190 -11540784 5000698014 (de:(mj0698) (pn:probable imidazoleglycerol-phosphate dehydratase:igpd:imidazoleglycerol-phosphate dehydrogenase) (gn:hisb) (gtcfc:5.11) (ec:4.2.1.19) (his7_metja) (keggfc:5.11) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ0698 MJ0698 Methanococcus jannaschii 2190 10060793

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927428	20180	42336	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927431	20181	42337	987	328

Description

6500736927 phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase:hisa2:phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase related protein (gtcfc:5.11) (ec:5.3.1.16) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ0703 MJ0703 Methanococcus jannaschii 2190 -11540785 5500686355 mj0703 (de:hypothetical protein mj0703) (db:swissprot) Y703_METJA Q58114 METHANOCOCCUS JANNASCHII 2190 -11540785 173666 hypothetical protein mj0703 (cl:hypothetical protein mj0703) (db:pir2.dat) (mp:for629861-630541) G64387 G64387 Methanococcus jannaschii 2190 -11540785 247137 mj0703 phosphoribosylformimino-5-aminoimidazole (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to sp:p05324 pid:150050 pid:44716 percent) (le:14443) (re:15123) (di:direct) U67516 U67516 g1591418 Methanococcus jannaschii 2190 -11540785 5000698070 (de:(mj0703) (pn:phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase) (gtcfc:5.7) (ec:) (keggfc:11.2) (tigrfc:1.4) (db:gtc-methanococcus jannaschii)) MJ0703 MJ0703 Methanococcus jannaschii 2190 10091826

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927451	20182	42338	810	269

Description

6500736928 hisc:histidinol-phosphate aminotransferase (gtcfc:5.11) (ec:2.6.1.9) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ0955 MJ0955 Methanococcus jannaschii 2190 -11540786 7500883319 hisc:mj0955 (ec:2.6.1.9) (de:acetol-phosphate transaminase)) (db:swissprot) HIS8_METJA Q58365 METHANOCOCCUS JANNASCHII 2190 -11540786 173183 histidinol-phosphate transaminase::histidinol-phosphate aminotransferase (cl:probable histidinol-phosphate transaminase) (ec:2.6.1.9) (db:pir2.dat) (mp:for886172-887293) C64419 C64419 Methanococcus jannaschii 2190 -11540786 7500883321 mj0955 histidinol-phosphate aminotransferase hisc (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to sp:p06986 gb:u02071 gb:x03416 pid:41695) (le:2378) (re:3499) (di:direct) U67539 U67539 g1591622 Methanococcus jannaschii 2190 -11540786 247389 mju67539 (le:886172) (re:887293) (di:direct) (de:or:methanococcus jannaschii pn:histidinol-phosphate aminotransferase gn:mj0955 le:2378 re:3499 di:direct nt:similar to p17731 percent identity: 37.6;) U67539 U67539 g1591622 Methanococcus jannaschii 2190 -11540786 5000698015 (de:(mj0955) (pn:histidinol-phosphate aminotransferase) (gtcfc:5.11) (ec:2.6.1.9) (keggfc:5.11) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ0955 MJ0955 Methanococcus jannaschii 2190 10091548

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927460	20183	42339	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927464	20184	42340	216	71

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927465	20185	42341	1926	641

Description

6500736929 hiss:mj1000 histidyl-trna synthetase:histidine--trna ligase:hisrs (gtcfc:5.11:10.6) (ec:6.1.1.21) (keggfc:5.11:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1000 MJ1000 Methanococcus jannaschii 2190 -11540787 121526 hiss:mj1000 (ec:6.1.1.21) (de:(hisrs)) (db:swissprot) SYH_METJA Q58406 METHANOCOCCUS JANNASCHII 2190 -11540787 173181 histidine--trna ligase::histidyl-trna synthetase (cl:archaeoglobus histidine--trna ligase:histidine--trna ligase homology) (ec:6.1.1.21) (db:pir2.dat) (mp:for928720-929970) G64424 G64424 Methanococcus jannaschii 2190 -11540787 247433 mj1000 histidyl-trna synthetase hiss (db:genpept-bct1) (de:methanococcus jannaschii section 84 of 150 of the complete genome.) (nt:similar to sp:p30053 percent identity: 35.44;) (le:7254) (re:8504) (di:direct) U67542 U67542 g1591660 Methanococcus jannaschii 2190 -11540787 5000698016 (de:(mj1000) (pn:histidine--trna ligase:hisrs:histidyl-trna synthetase) (gn:hiss) (gtcfc:5.11:10.6) (ec:6.1.1.21) (syh_metja) (keggfc:5.11:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1000 MJ1000 Methanococcus jannaschii 2190 10064902

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927479	20186	42342	774	257

Description

6500736930 hisg:atp phosphoribosyltransferase (gtcfc:5.11) (ec:2.4.2.17) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ1204 MJ1204 Methanococcus jannaschii 2190 -11540788 7500883269 hisg:mj1204 (ec:2.4.2.17) (de:atp phosphoribosyltransferase,) (db:swissprot) HIS1_METJA Q58601 METHANOCOCCUS JANNASCHII 2190 -11540788 172978 atp phosphoribosyltransferase (cl:atp phosphoribosyltransferase) (ec:2.4.2.17) (db:pir2.dat) (mp:rev1148348-1147482) C64450 C64450 Methanococcus jannaschii 2190 -11540788 7500883271 mj1204 atp phosphoribosyltransferase hisg (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to sp:p10366 gb:u02070 gb:x63697 pid:41022) (le:1260) (re:2126) (di:complement) U67562 U67562 g1591834 Methanococcus jannaschii 2190 -11540788 247637 mju67562 (le:1147482) (re:1148348) (di:direct) (de:or:methanococcus jannaschii pn:atp phosphoribosyltransferase gn:mj1204 le:1260 re:2126 di:complement nt:similar to p10366 percent identity: 33.4;) U67562 U67562 g1591834 Methanococcus jannaschii 2190 -11540788 5000698017 (de:(mj1204) (pn:atp phosphoribosyltransferase) (gtcfc:5.11) (ec:2.4.2.17) (keggfc:5.11) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ1204 MJ1204 Methanococcus jannaschii 2190 10091423

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927490	20187	42343	1104	367

Description

6500736931 phosphoribosyl-amp cyclohydrolase/phosphoribosyl-atp pyrophosphohydrolase:hisie:phosphoribosyl-amp cyclohydrolase (gtcfc:5.11) (ec:3.5.4.19) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ1430 MJ1430 Methanococcus jannaschii 2190 -11540789 174419 phosphoribosyl-amp cyclohydrolase (cl:hisi protein homology) (ec:3.5.4.19) (db:pir2.dat) (mp:for1400936-1401319) E64478 E64478 Methanococcus jannaschii 2190 -11540789 247863 mj1430 phosphoribosyl-amp (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:similar to sp:p06989 gb:d43637 gb:u02072 gb:x03974) (le:4358) (re:4741) (di:direct) U67584 U67584 g1592080 Methanococcus jannaschii 2190 -11540789 5000698018 (de:(mj1430) (pn:phosphoribosyl-amp cyclohydrolase) (gtcfc:5.11) (ec:3.5.4.19) (keggfc:5.11) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ1430 MJ1430 Methanococcus jannaschii 2190 10092434

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927492	20188	42344	852	283

Description

6500736932 hisd:histidinol dehydrogenase (gtcfc:5.11) (ec:1.1.1.23) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ1456 MJ1456 Methanococcus jannaschii 2190 -11540790 7500883347 hisd:mj1456 (ec:1.1.1.23) (de:histidinol dehydrogenase, (hdh)) (db:swissprot) HISX_METJA Q58851 METHANOCOCCUS JANNASCHII 2190 -11540790 173182 histidinol dehydrogenase (cl:histidinol dehydrogenase:histidinol dehydrogenase homology) (ec:1.1.1.23) (db:pir2.dat) (mp:for1425723-1427012) G64481 G64481 Methanococcus jannaschii 2190 -11540790 7500883349 mj1456 histidinol dehydrogenase hisd (db:genpept-bct1) (de:methanococcus jannaschii section 128 of 150 of the complete genome.) (nt:similar to sp:p06988 gb:x03972 gb:x52656 pid:41698) (le:4905) (re:6194) (di:direct) U67586 U67586 g1592098 Methanococcus jannaschii 2190 -11540790 247889 mju67586 (le:1425723) (re:1427012) (di:direct) (de:or:methanococcus jannaschii pn:histidinol dehydrogenase gn:mj1456 le:4905 re:6194 di:direct nt:similar to q02136 percent identity: 46.5;) U67586 U67586 g1592098 Methanococcus jannaschii 2190 -11540790 5000698019 (de:(mj1456) (pn:histidinol dehydrogenase) (gtcfc:5.11) (ec:1.1.1.23) (keggfc:5.11) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ1456 MJ1456 Methanococcus jannaschii 2190 10091547

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927493	20189	42345	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927497	20190	42346	501	166

Description

6500736933 hisa1:phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase (gtcfc:5.11) (ec:5.3.1.16) (keggfc:5.11) (tigrfc:1.7) (db:gtc-methanococcus jannaschii) MJ1532 MJ1532 Methanococcus jannaschii 2190 -11540791 5500685340 hisa:mj1532 (ec:5.3.1.16) (de:isomerase,) (db:swissprot) HIS4_METJA Q58927 METHANOCOCCUS JANNASCHII 2190 -11540791 174424 phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase (cl:n-(5'-phospho-d-ribosylformimino)-5-amino-1-(5''-phosphoribosyl)-4-imidazolecarboxamide isomerase) (db:pir2.dat) (mp:for1508884-1509597) C64491 C64491 Methanococcus jannaschii 2190 -11540791 247965 mj1532 phosphoribosylformimino-5-aminoimidazole (db:genpept-bct1) (de:methanococcus jannaschii section 136 of 150 of the complete genome.) (nt:similar to sp:p10371 pid:41713 gb:u00096) (le:1891) (re:2604) (di:direct) U67594 U67594 g1592163 Methanococcus jannaschii 2190 -11540791 5000698021 (de:(mj1532) (pn:phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase) (gtcfc:5.11) (ec:) (keggfc:11.2) (tigrfc:1.6) (db:gtc-methanococcus jannaschii)) MJ1532 MJ1532 Methanococcus jannaschii 2190 10092437

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927507	20191	42347	1146	381

Description

6500736934 hema:mj0143 glutamyl-trna reductase:probable glutamyl-trna reductase:glutr (gtcfc:5.13:5.14:9.10) (ec:1.2.1.-) (keggfc:5.13:5.14:9.10) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0143 MJ0143 Methanococcus jannaschii 2190 -11540792 118531 hema:mj0143 (ec:1.2.1.-) (de:probable glutamyl-trna reductase, (glutr)) (db:swissprot) HEM1_METJA Q60172 METHANOCOCCUS JANNASCHII 2190 -11540792 173148 glutamyl-trna reductase (cl:glutamyl-trna reductase) (ec:1.2.1.-) (db:pir2.dat) (mp:for140221-141399) H64317 H64317 Methanococcus jannaschii 2190 -11540792 246578 mj0143 glutamyl-trna reductase hema (db:genpept-bct1) (de:methanococcus jannaschii section 13 of 150 of the complete genome.) (nt:similar to sp:p42809 percent identity: 47.71;) (le:6225) (re:7403) (di:direct) U67471 U67471 g1590905 Methanococcus jannaschii 2190 -11540792 5000698022 (de:(mj0143) (pn:probable glutamyl-trna reductase:glutr:glutamyl-trna reductase) (gn:hema) (gtcfc:5.13:5.14:9.10) (ec:1.2.1.-) (hem1_metja) (keggfc:5.13:5.14:9.10) (tigrfc:2.4) (db:gtc-methanococcus jannaschii)) MJ0143 MJ0143 Methanococcus jannaschii 2190 10060747

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927510	20192	42348	900	299

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927535	20193	42349	585	194

Description

GTC ORF with score 422 to: (sr:schizosaccharomyces pombe (strain:pr745) cdna to mrna) (db:genpept-pln1) (de:schizosaccharomyces pombe mrna, partial cds, clone: sy 1030.) (nt:similar to saccharomyces cerevisiae orf ynl274c,) (le:276) (re:1280) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927545	20194	42350	714	237

Description

6500736935 udp-glucose dehydrogenase:putative:udp-glucose dehydrogenase (gtcfc:5.13:11.2) (ec:1.1.99.-) (keggfc:5.13) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1054 MJ1054 Methanococcus jannaschii 2190 -11540793 7500895884 mj1054 (ec:1.1.1.-) (de:hypothetical protein mj1054,) (db:swissprot) YA54_METJA Q58454 METHANOCOCCUS JANNASCHII 2190 -11540793 174608 udpglucose 6-dehydrogenase:intein-containing (ec:1.1.1.22) (db:pir2.dat) (mp:for990967-993654) E64431 E64431 Methanococcus jannaschii 2190 -11540793 7500895886 mj1054 udp-glucose dehydrogenase:putative (db:genpept-bct1) (de:methanococcus jannaschii section 90 of 150 of the complete genome.) (nt:similar to gp:1651923 percent ident: 43.32;) (le:4749) (re:7436) (di:direct) U67548 U67548 g1591706 Methanococcus jannaschii 2190 -11540793 247487 mju67548 (le:990967) (re:993654) (di:direct) (de:or:methanococcus jannaschii pn:udp-glucose dehydrogenase gn:mj1054 le:4749 re:7436 di:direct nt:similar to jc2525 percent identity: 42.9;) U67548 U67548 g1591706 Methanococcus jannaschii 2190 -11540793 5000698023 (de:(mj1054) (pn:udp-glucose dehydrogenase) (gtcfc:5.13) (ec:1.1.99.-) (keggfc:5.13) (tigrfc:3.3) (db:gtc-methanococcus jannaschii)) MJ1054 MJ1054 Methanococcus jannaschii 2190 10092505

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927546	20195	42351	222	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927547	20196	42352	285	94

Description

6500736936 deoxyhypusine synthase:dys1:probable deoxyhypusine synthase (gtcfc:5.14:10.7) (ec:1.5.1.-) (keggfc:5.14) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0814 MJ0814 Methanococcus jannaschii 2190 -11540794 120153 mj0814 (ec:1.1.1.249) (de:probable deoxyhypusine synthase,) (db:swissprot) DHYS_METJA Q58224 METHANOCOCCUS JANNASCHII 2190 -11540794 173045 deoxyhypusine synthase (cl:yeast deoxyhypusine synthase) (ec:1.5.1.-) (db:pir2.dat) (mp:rev738679-737567) F64401 F64401 Methanococcus jannaschii 2190 -11540794 247248 mj0814 deoxyhypusine synthase dys1 (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to sp:p38791 pid:1375088 pid:487946 percent) (le:11303) (re:12415) (di:complement) U67525 U67525 g1591503 Methanococcus jannaschii 2190 -11540794 5000698247 (de:(mj0814) (pn:probable deoxyhypusine synthase:deoxyhypusine synthase) (gtcfc:10.5) (ec:1.5.1.-) (dhys_metja) (keggfc:11.1) (tigrfc:12.4) (db:gtc-methanococcus jannaschii)) MJ0814 MJ0814 Methanococcus jannaschii 2190 10063027

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927564	20197	42353	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927566	20198	42354	378	125

Description

6500736937 trps:mj1415 tryptophanyl-trna synthetase:tryptophan--trna ligase:trprs (gtcfc:5.14:10.6) (ec:6.1.1.2) (keggfc:5.14:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1415 MJ1415 Methanococcus jannaschii 2190 -11540795 121557 trps:mj1415 (ec:6.1.1.2) (de:(trprs)) (db:swissprot) SYW_METJA Q58810 METHANOCOCCUS JANNASCHII 2190 -11540795 174596 tryptophan--trna ligase::tryptophanyl-trna synthetase (ec:6.1.1.2) (db:pir2.dat) (mp:for1375885-1376997) F64476 F64476 Methanococcus jannaschii 2190 -11540795 247848 mj1415 tryptophanyl-trna synthetase trps (db:genpept-bct1) (de:methanococcus jannaschii section 124 of 150 of the complete genome.) (nt:similar to gb:x59892 gb:x67918 gb:x67919 gb:x67920) (le:59) (re:1171) (di:direct) U67582 U67582 g1592065 Methanococcus jannaschii 2190 -11540795 5000698024 (de:(mj1415) (pn:tryptophan--trna ligase:trprs:tryptophanyl-trna synthetase) (gn:trps) (gtcfc:5.14:10.6) (ec:6.1.1.2) (syw_metja) (keggfc:5.14:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1415 MJ1415 Methanococcus jannaschii 2190 10064952

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927567	20199	42355	432	143

Description

GTC ORF with score 323 to: (sr:schizosaccharomyces pombe (strain:pr745) cdna to mrna) (db:genpept-pln1) (de:schizosaccharomyces pombe mrna, partial cds, clone: sy 1030.) (nt:similar to saccharomyces cerevisiae orf ynl274c,) (le:276) (re:1280) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927574	20200	42356	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927592	20201	42357	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927607	20202	42358	720	239

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927615	20203	42359	645	214

Description

GTC ORF with score 459 to: (fn:involved in heterokaryon incompatibility) (sr:podospora anserina dna) (db:genpept-vrl) (de:podospora anserina beta transducin-like protein (het-e1) gene,complete cds.) (nt:putative) (le:810:3142) (re:3092:4929) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927619	20204	42360	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927628	20205	42361	279	92

Description

6500736938 trpd:mj0234 anthranilate synthase component ii:anthranilate phosphoribosyltransferase (gtcfc:5.15:9.12) (keggfc:5.15:9.13) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0234 MJ0234 Methanococcus jannaschii 2190 -11540796 1500687195 trpd:mj0234 (ec:2.4.2.18) (de:anthranilate phosphoribosyltransferase,) (db:swissprot) TRPD_METJA Q57686 METHANOCOCCUS JANNASCHII 2190 -11540796 172959 anthranilate synthase:subunit ii (cl:anthranilate phosphoribosyltransferase:trpd homology) (ec:4.1.3.27) (db:pir2.dat) (mp:for225111-226121) C64329 C64329 Methanococcus jannaschii 2190 -11540796 246669 mj0234 anthranilate synthase component ii trpd (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:similar to gb:m33814 sp:p20574 pid:151234 percent) (le:3662) (re:4672) (di:direct) U67479 U67479 g1590969 Methanococcus jannaschii 2190 -11540796 5000698025 (de:(mj0234) (pn:anthranilate synthase, subunit ii") (gtcfc:5.15:9.12) (ec:4.1.3.27) (keggfc:5.15:9.13) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ0234 MJ0234 Methanococcus jannaschii 2190 10064183

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927636	20206	42362	2124	707

Description

GTC ORF with score 799 to: (fn:involved in heterokaryon incompatibility) (sr:podospora anserina dna) (db:genpept-vrl) (de:podospora anserina beta transducin-like protein (het-e1) gene,complete cds.) (nt:putative) (le:810:3142) (re:3092:4929) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927637	20207	42363	444	147

Description

6500736939 trpg:mj0238 anthranilate synthase component ii:glutamine amido-transferase (gtcfc:5.15:9.12) (ec:4.1.3.27) (keggfc:5.15:9.13) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0238 MJ0238 Methanococcus jannaschii 2190 -11540797 500684897 trpg:mj0238 (ec:4.1.3.27) (de:transferase)) (db:swissprot) TRPG_METJA Q57690 METHANOCOCCUS JANNASCHII 2190 -11540797 172960 anthranilate synthase::subunit ii (cl:glutamine amidotransferase:trpg homology) (ec:4.1.3.27) (db:pir2.dat) (mp:for229855-230448) G64329 G64329 Methanococcus jannaschii 2190 -11540797 246673 mj0238 anthranilate synthase component ii trpg (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:similar to gb:m33814 sp:p20576 pid:151233 percent) (le:8406) (re:8999) (di:direct) U67479 U67479 g1590972 Methanococcus jannaschii 2190 -11540797 5000698026 (de:(mj0238) (pn:anthranilate synthase component ii:glutamine amido- transferase:anthranilate synthase, subunit ii"") (gn:trpg) (gtcfc:5.15:9.12) (ec:4.1.3.27) (trpg_metja) (keggfc:5.15:9.13) (tigrfc:1.1) (db:gtc-methanococcus j) MJ0238 MJ0238 Methanococcus jannaschii 2190 10060464

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927650	20208	42364	360	119

Description

6500736940 tyrs:mj0389 trs:tyrosyl-trna synthetase:tyrosine--trna ligase:tyrrs (gtcfc:5.15:10.6) (ec:6.1.1.1) (keggfc:5.15:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0389 MJ0389 Methanococcus jannaschii 2190 -11540798 121561 tyrs:mj0389 (ec:6.1.1.1) (de:tyrosyl-trna synthetase, (tyrosine--trna ligase) (tyrrs)) (db:swissprot) SYY_METJA Q57834 METHANOCOCCUS JANNASCHII 2190 -11540798 174605 tyrosine--trna ligase::tyrosyl-trna synthetase (cl:yeast tyrosine--trna ligase) (ec:6.1.1.1) (db:pir2.dat) (mp:for353828-354748) E64348 E64348 Methanococcus jannaschii 2190 -11540798 246823 mj0389 tyrosyl-trna synthetase trs (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:similar to gp:1707816 percent identity: 44.27;) (le:8287) (re:9207) (di:direct) U67491 U67491 g1591094 Methanococcus jannaschii 2190 -11540798 5000698028 (de:(mj0389) (pn:tyrosine--trna ligase:tyrrs:tyrosyl-trna synthetase) (gn:tyrs) (gtcfc:5.15:10.6) (ec:6.1.1.1) (syy_metja) (keggfc:5.15:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ0389 MJ0389 Methanococcus jannaschii 2190 10064956

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927660	20209	42365	186	61

Description

6500736941 nada:mj0407 quinolinate synthetase:probable quinolinate synthetase a (gtcfc:5.15:9.4) (ec:4.6.1.3) (keggfc:5.15) (tigrfc:2.10) (db:gtc-methanococcus jannaschii) MJ0407 MJ0407 Methanococcus jannaschii 2190 -11540799 4000709115 nada:mj0407 (de:probable quinolinate synthetase a) (db:swissprot) NADA_METJA Q57850 METHANOCOCCUS JANNASCHII 2190 -11540799 174462 quinolinate synthetase (cl:quinolinate synthetase a) (db:pir2.dat) (mp:for366476-367399) G64350 G64350 Methanococcus jannaschii 2190 -11540799 246841 mj0407 quinolinate synthetase nada (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:similar to sp:p31179 percent identity: 40.79;) (le:1030) (re:1953) (di:direct) U67493 U67493 g1591113 Methanococcus jannaschii 2190 -11540799 5000698116 (de:(mj0407) (pn:quinolinate synthetase) (gtcfc:9.13) (ec:) (keggfc:11.2) (tigrfc:2.1) (db:gtc-methanococcus jannaschii)) MJ0407 MJ0407 Methanococcus jannaschii 2190 10092458

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927674	20210	42366	552	183

Description

6500736942 tprf:mj0451 phosphoribosylanthranilate isomerase:trpf:n-:5-phosphoribosylanthranilate isomerase:prai (gtcfc:5.15) (ec:5.3.1.24) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0451 MJ0451 Methanococcus jannaschii 2190 -11540800 500685165 tprf:mj0451 (ec:5.3.1.24) (de:n-(5'-phosphoribosyl)anthranilate isomerase, (prai)) (db:swissprot) TRPF_METJA Q57893 METHANOCOCCUS JANNASCHII 2190 -11540800 174423 phosphoribosylanthranilate isomerase (cl:trpf homology) (ec:5.3.1.24) (db:pir2.dat) (mp:for403839-404519) C64356 C64356 Methanococcus jannaschii 2190 -11540800 246885 mj0451 phosphoribosylanthranilate isomerase trpf (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to gb:m83788 pid:149038 sp:p52563 percent) (le:5122) (re:5802) (di:direct) U67496 U67496 g1591155 Methanococcus jannaschii 2190 -11540800 5000698029 (de:(mj0451) (pn:n-:5"-phosphoribosylanthranilate isomerase:prai:n-phosphoribosyl anthranilate isomerase) (gn:tprf) (gtcfc:5.15) (ec:5.3.1.24) (trpf_metja) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ0451 MJ0451 Methanococcus jannaschii 2190 10063563

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927677	20211	42367	249	82

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927678	20212	42368	858	285

Description

6500736943 phenylalanyl-trna synthetase:subunit alpha:phes:probable phenylalanyl-trna synthetase:phenylalanine--trna ligase (gtcfc:5.15:10.6) (ec:6.1.1.20) (keggfc:5.15:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0487 MJ0487 Methanococcus jannaschii 2190 -11540801 500685319 mj0487 (ec:6.1.1.20) (de:trna ligase)) (db:swissprot) SYF_METJA Q57911 METHANOCOCCUS JANNASCHII 2190 -11540801 174404 phenylalanine--trna ligase:alpha chain:phenylalanyl-trna synthetase:subunit alpha (cl:yeast cytosolic phenylalanine--trna ligase beta chain) (ec:6.1.1.20) (db:pir2.dat) (mp:for430930-432372) G64360 G64360 Methanococcus jannaschii 2190 -11540801 246921 mj0487 phenylalanyl-trna synthetase:subunit alpha (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:similar to sp:p15625 pid:172947 pid:836732 percent) (le:167) (re:1609) (di:direct) U67499 U67499 g1592293 Methanococcus jannaschii 2190 -11540801 5000698030 (de:(mj0487) (pn:probable phenylalanyl-trna synthetase:phenylalanine--trna ligase:phenylalanyl-trna synthetase, subunit alpha) (gtcfc:5.15:10.6) (ec:6.1.1.20) (syf_metja) (keggfc:5.15:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococ) MJ0487 MJ0487 Methanococcus jannaschii 2190 10064889

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927679	20213	42369	708	235

Description

6500736944 3-phosphoshikimate-1-carboxyvinyltransferase:aroa:putative . 3-phosphoshikimate 1-carboxyvinyltransferase:5-enolpyruvylshikimate-3-phosphate synthase:epsp synthase (gtcfc:5.15) (ec:2.5.1.19) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0502 MJ0502 Methanococcus jannaschii 2190 -11540802 172919 3-phosphoshikimate 1-carboxyvinyltransferase::5-enolpyruvylshikimate 3-phosphate synthase (cl:3-phosphoshikimate 1-carboxyvinyltransferase:3-phosphoshikimate 1-carboxyvinyltransferase homology) (ec:2.5.1.19) (db:pir2.dat) (mp:for443141-444451) F64362 F64362 Methanococcus jannaschii 2190 -11540802 4000707581 mj0502 (ec:2.5.1.19) (de:(epsp synthase)) (db:swissprot) AROA_METJA Q57925 METHANOCOCCUS JANNASCHII 2190 -11540802 246936 mju67500 (le:443141) (re:444451) (di:direct) (de:or:methanococcus jannaschii pn:5-enolpyruvylshikimate 3-phosphate synthase gn:mj0502 le:1846 re:3156 di:direct nt:similar to q03421 percent identity: 38.1;) U67500 U67500 g1591205 Methanococcus jannaschii 2190 -11540802 5000698031 (de:(mj0502) (pn:5-enolpyruvylshikimate 3-phosphate synthase) (gtcfc:5.15) (ec:2.5.1.19) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ0502 MJ0502 Methanococcus jannaschii 2190 10091395

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927684	20214	42370	504	167

Description

6500736945 chorismate mutase/prephenate dehydratase:tyra:chorismate mutase (gtcfc:5.15) (ec:5.4.99.5) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0612 MJ0612 Methanococcus jannaschii 2190 -11540803 1500686303 mj0612 (de:hypothetical protein mj0612) (db:swissprot) Y612_METJA Q58029 METHANOCOCCUS JANNASCHII 2190 -11540803 173013 chorismate mutase:chain b (cl:methanococcus jannaschii chorismate mutase chain b) (ec:5.4.99.5) (db:pir2.dat) (mp:for542303-543643) D64376 D64376 Methanococcus jannaschii 2190 -11540803 247046 mj0612 chorismate mutase/prephenate dehydratase tyra (db:genpept-bct1) (de:methanococcus jannaschii section 51 of 150 of the complete genome.) (nt:similar to sp:p07023 pid:457110 gb:u00096) (le:6445) (re:7785) (di:direct) U67509 U67509 g1591322 Methanococcus jannaschii 2190 -11540803 5000698032 (de:(mj0612) (pn:chorismate mutase subunit b) (gtcfc:5.15) (ec:1.3.1.12) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ0612 MJ0612 Methanococcus jannaschii 2190 10061276

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927686	20215	42371	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927715	20216	42372	300	99

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927741	20217	42373	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927747	20218	42374	936	311

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927763	20219	42375	567	188

Description

GTC ORF with score 223 to: (sr:baker"s yeast strain=s288c (ab972)) (db:genpept-pln1) (de:saccharomyces cerevisiae chromosome xii cosmid 9672.) (nt:similar to mouse mpv17 protein (swissprot accession) (le:24166) (re:24759) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927765	20220	42376	402	133

Description

6500736946 phea:mj0637 chorismate mutase/prephenate dehydratase:probable prephenate dehydratase:pdt (gtcfc:5.15) (ec:4.2.1.51) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0637 MJ0637 Methanococcus jannaschii 2190 -11540804 4000709399 phea:mj0637 (ec:4.2.1.51) (de:probable prephenate dehydratase, (pdt)) (db:swissprot) PHEA_METJA Q58054 METHANOCOCCUS JANNASCHII 2190 -11540804 174442 prephenate dehydratase (cl:prephenate dehydratase:prephenate dehydratase homology) (ec:4.2.1.51) (db:pir2.dat) (mp:rev567914-567096) E64379 E64379 Methanococcus jannaschii 2190 -11540804 247071 mj0637 chorismate mutase/prephenate dehydratase phea (db:genpept-bct1) (de:methanococcus jannaschii section 53 of 150 of the complete genome.) (nt:similar to sp:p43909 pid:683585 percent identity:) (le:7667) (re:8485) (di:complement) U67511 U67511 g1591349 Methanococcus jannaschii 2190 -11540804 5000698033 (de:(mj0637) (pn:prephenate dehydratase) (gtcfc:5.15) (ec:4.2.1.51) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ0637 MJ0637 Methanococcus jannaschii 2190 10092449

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927767	20221	42377	486	161

Description

6500736947 trpc:mj0918 indole-3-glycerol phosphate synthase/phosphoribosylanthranilate isomerase:indole-3-glycerol phosphate synthase:igps (gtcfc:5.15) (ec:4.1.1.48) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0918 MJ0918 Methanococcus jannaschii 2190 -11540805 500685164 trpc:mj0918 (ec:4.1.1.48) (de:indole-3-glycerol phosphate synthase, (igps)) (db:swissprot) TRPC_METJA Q58328 METHANOCOCCUS JANNASCHII 2190 -11540805 174293 indole-3-glycerol-phosphate synthase (cl:indole-3-glycerol-phosphate synthase:trpc homology) (ec:4.1.1.48) (db:pir2.dat) (mp:rev850478-849678) F64414 F64414 Methanococcus jannaschii 2190 -11540805 247352 mj0918 indole-3-glycerol phosphate (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:similar to sp:p18304 pid:149042 percent identity:) (le:6116) (re:6916) (di:complement) U67535 U67535 g1591591 Methanococcus jannaschii 2190 -11540805 5000698034 (de:(mj0918) (pn:igps:indole-3-glycerol phosphate synthase) (gn:trpc) (gtcfc:5.15) (ec:4.1.1.48) (trpc_metja) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ0918 MJ0918 Methanococcus jannaschii 2190 10063562

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927780	20222	42378	1131	376

Description

6500736948 trpb:mj1037 tryptophan synthase beta subunit:tryptophan synthase beta chain (gtcfc:5.15) (ec:4.2.1.20) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ1037 MJ1037 Methanococcus jannaschii 2190 -11540806 121675 trpb:mj1037 (ec:4.2.1.20) (de:tryptophan synthase beta chain,) (db:swissprot) TRPB_METJA Q60179 METHANOCOCCUS JANNASCHII 2190 -11540806 174595 trpb tryptophan synthase:beta chain (cl:tryptophan synthase beta chain:tryptophan synthase beta chain homology) (ec:4.2.1.20) (db:pir2.dat) (mp:for968344-969558) D64429 D64429 Methanococcus jannaschii 2190 -11540806 247470 mj1037 tryptophan synthase beta subunit trpb (db:genpept-bct1) (de:methanococcus jannaschii section 88 of 150 of the complete genome.) (nt:similar to pid:1054861 sp:p50909 percent identity:) (le:4446) (re:5660) (di:direct) U67546 U67546 g1591690 Methanococcus jannaschii 2190 -11540806 5000698035 (de:(mj1037) (pn:tryptophan synthase beta chain:tryptophan synthase, subunit beta) (gn:trpb) (gtcfc:5.15) (ec:4.2.1.20) (trpb_metja) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ1037 MJ1037 Methanococcus jannaschii 2190 10065128

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927797	20223	42379	264	87

Description

6500736949 trpa:mj1038 tryptophan synthase alpha subunit:tryptophan synthase alpha chain (gtcfc:5.15) (ec:4.2.1.20) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ1038 MJ1038 Methanococcus jannaschii 2190 -11540807 121674 trpa:mj1038 (ec:4.2.1.20) (de:tryptophan synthase alpha chain,) (db:swissprot) TRPA_METJA Q60180 METHANOCOCCUS JANNASCHII 2190 -11540807 174594 tryptophan synthase:alpha chain (cl:tryptophan synthase alpha chain:tryptophan synthase alpha chain homology) (ec:4.2.1.20) (db:pir2.dat) (mp:for969735-970589) E64429 E64429 Methanococcus jannaschii 2190 -11540807 247471 mj1038 tryptophan synthase alpha subunit trpa (db:genpept-bct1) (de:methanococcus jannaschii section 88 of 150 of the complete genome.) (nt:similar to gb:m65060 sp:p26920 pid:149750) (le:5837) (re:6691) (di:direct) U67546 U67546 g1591691 Methanococcus jannaschii 2190 -11540807 5000698036 (de:(mj1038) (pn:tryptophan synthase alpha chain:tryptophan synthase, subunit alpha) (gn:trpa) (gtcfc:5.15) (ec:4.2.1.20) (trpa_metja) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ1038 MJ1038 Methanococcus jannaschii 2190 10065126

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927802	20224	42380	438	145

Description

6500736950 trpe:mj1075 anthranilate synthase component i (gtcfc:5.15:9.12) (ec:4.1.3.27) (keggfc:5.15:9.13) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ1075 MJ1075 Methanococcus jannaschii 2190 -11540808 500685359 trpe:mj1075 (ec:4.1.3.27) (de:anthranilate synthase component i,) (db:swissprot) TRPE_METJA Q58475 METHANOCOCCUS JANNASCHII 2190 -11540808 172958 anthranilate synthase:subunit i (cl:anthranilate synthase component i) (ec:4.1.3.27) (db:pir2.dat) (mp:rev1015626-1014202) B64434 B64434 Methanococcus jannaschii 2190 -11540808 247508 mj1075 anthranilate synthase component i trpe (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:similar to gb:m33799 sp:p20579 pid:151629 percent) (le:3360) (re:4784) (di:complement) U67550 U67550 g1591723 Methanococcus jannaschii 2190 -11540808 5000698037 (de:(mj1075) (pn:anthranilate synthase component i:anthranilate synthase, subunit i) (gn:trpe) (gtcfc:5.15:9.12) (ec:4.1.3.27) (trpe_metja) (keggfc:5.15:9.13) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ1075 MJ1075 Methanococcus jannaschii 2190 10065130

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927820	20225	42381	612	203

Description

6500736951 aroe:mj1084 shikimate 5-dehydrogenase (gtcfc:5.15) (ec:1.1.1.25) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ1084 MJ1084 Methanococcus jannaschii 2190 -11540809 1500685862 aroe:mj1084 (ec:1.1.1.25) (de:shikimate 5-dehydrogenase,) (db:swissprot) AROE_METJA Q58484 METHANOCOCCUS JANNASCHII 2190 -11540809 174539 shikimate 5-dehydrogenase (cl:shikimate dehydrogenase:shikimate dehydrogenase homology) (ec:1.1.1.25) (db:pir2.dat) (mp:for1022761-1023609) C64435 C64435 Methanococcus jannaschii 2190 -11540809 247517 mj1084 shikimate 5-dehydrogenase aroe (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:similar to sp:p15770 gb:y00710 pid:40978 pid:606215) (le:2189) (re:3037) (di:direct) U67551 U67551 g1591730 Methanococcus jannaschii 2190 -11540809 5000698038 (de:(mj1084) (pn:shikimate 5-dehydrogenase) (gtcfc:5.15) (ec:1.1.1.25) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ1084 MJ1084 Methanococcus jannaschii 2190 10059330

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927830	20226	42382	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927838	20227	42383	654	217

Description

6500736952 phet:phenylalanyl-trna synthetase:subunit beta (gtcfc:5.15:10.6) (ec:6.1.1.20) (keggfc:5.15:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1108 MJ1108 Methanococcus jannaschii 2190 -11540810 174405 phenylalanine--trna ligase:beta chain:phenylalanyl-trna synthetase:subunit beta (cl:yeast cytosolic phenylalanine--trna ligase alpha chain) (ec:6.1.1.20) (db:pir2.dat) (mp:rev1048808-1047162) C64438 C64438 Methanococcus jannaschii 2190 -11540810 247541 mj1108 phenylalanyl-trna synthetase:subunit beta (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:similar to gp:1707793 percent identity: 39.92;) (le:6759) (re:8405) (di:complement) U67553 U67553 g1591750 Methanococcus jannaschii 2190 -11540810 5000698039 (de:(mj1108) (pn:phenylalanyl-trna synthetase, subunit beta) (gtcfc:5.15:10.6) (ec:6.1.1.20) (keggfc:5.15:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1108 MJ1108 Methanococcus jannaschii 2190 10092426

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927849	20228	42384	3105	1034

Description

6500736953 aroc:mj1175 chorismate synthase:5-enolpyruvylshikimate-3-phosphate phospholyase (gtcfc:5.15) (ec:4.6.1.4) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ1175 MJ1175 Methanococcus jannaschii 2190 -11540811 5500684884 aroc:mj1175 (ec:4.6.1.4) (de:phospholyase)) (db:swissprot) AROC_METJA Q58575 METHANOCOCCUS JANNASCHII 2190 -11540811 173014 chorismate synthase (cl:chorismate synthase) (ec:4.6.1.4) (db:pir2.dat) (mp:rev1114924-1113788) F64446 F64446 Methanococcus jannaschii 2190 -11540811 247608 mj1175 chorismate synthase aroc (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to gb:m27714 sp:p12008 gb:m33021 gb:y00720) (le:2351) (re:3487) (di:complement) U67559 U67559 g1591802 Methanococcus jannaschii 2190 -11540811 5000698040 (de:(mj1175) (pn:chorismate synthase) (gtcfc:5.15) (ec:4.6.1.4) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ1175 MJ1175 Methanococcus jannaschii 2190 10072750

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927874	20229	42385	411	136

Description

6500736954 arod:3-dehydroquinate dehydratase (gtcfc:5.15) (ec:4.2.1.10) (keggfc:5.15) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ1454 MJ1454 Methanococcus jannaschii 2190 -11540812 172915 3-dehydroquinate dehydratase (cl:3-dehydroquinate dehydratase:3-dehydroquinate dehydratase homology) (ec:4.2.1.10) (db:pir2.dat) (mp:rev1424632-1423970) E64481 E64481 Methanococcus jannaschii 2190 -11540812 247887 mj1454 3-dehydroquinate dehydratase arod (db:genpept-bct1) (de:methanococcus jannaschii section 128 of 150 of the complete genome.) (nt:similar to sp:p05194 gb:x59503 pid:40975 gb:u00096) (le:3152) (re:3814) (di:complement) U67586 U67586 g1592097 Methanococcus jannaschii 2190 -11540812 5000698041 (de:(mj1454) (pn:3-dehydroquinate dehydratase) (gtcfc:5.15) (ec:4.2.1.10) (keggfc:5.15) (tigrfc:1.1) (db:gtc-methanococcus jannaschii)) MJ1454 MJ1454 Methanococcus jannaschii 2190 10091391

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927893	20230	42386	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927902	20231	42387	2355	784

Description

5000698027 chorismate mutase/prephenate dehydratase:phea:hypothetical protein (gtcfc:5.15) (keggfc:14.2) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0246 MJ0246 Methanococcus jannaschii 2190 -11540813 1500686289 mj0246 (de:hypothetical protein mj0246) (db:swissprot) Y246_METJA Q57696 METHANOCOCCUS JANNASCHII 2190 -11540813 173012 chorismate mutase:chain a (cl:methanococcus jannaschii chorismate mutase chain a) (ec:5.4.99.5) (db:pir2.dat) (mp:rev233997-233698) G64330 G64330 Methanococcus jannaschii 2190 -11540813 246681 mj0246 chorismate mutase/prephenate dehydratase phea (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to sp:p07022 pid:147175 pid:551824) (le:1627) (re:1926) (di:complement) U67480 U67480 g1590979 Methanococcus jannaschii 2190 -11540813 6500736955 chorismate mutase/prephenate dehydratase:phea:hypothetical protein (gtcfc:5.15) (keggfc:14.2) (tigrfc:1.2) (db:gtc-methanococcus jannaschii) MJ0246 MJ0246 Methanococcus jannaschii 2190 -11540813

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927908	20232	42388	303	100

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927951	20233	42389	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927962	20234	42390	2370	789

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927985	20235	42391	4236	1412

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501927997	20236	42392	519	172

Description

6500736956 alas:mj0564 alanyl-trna synthetase:alanine--trna ligase:alars (gtcfc:5.2:10.6) (ec:6.1.1.7) (keggfc:5.2:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0564 MJ0564 Methanococcus jannaschii 2190 -11540814 121497 alas:mj0564 (ec:6.1.1.7) (de:alanyl-trna synthetase, (alanine--trna ligase) (alars)) (db:swissprot) SYA_METJA Q57984 METHANOCOCCUS JANNASCHII 2190 -11540814 172949 alanine--trna ligase::alanyl-trna synthetase (cl:alanine--trna ligase) (ec:6.1.1.7) (db:pir2.dat) (mp:rev500889-498211) D64370 D64370 Methanococcus jannaschii 2190 -11540814 246998 mj0564 alanyl-trna synthetase alas (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p43815 pid:1005831) (le:5735) (re:8413) (di:complement) U67505 U67505 g1591270 Methanococcus jannaschii 2190 -11540814 5000698045 (de:(mj0564) (pn:alanine--trna ligase:alars:alanyl-trna synthetase) (gn:alas) (gtcfc:5.2:10.6) (ec:6.1.1.7) (sya_metja) (keggfc:5.2:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ0564 MJ0564 Methanococcus jannaschii 2190 10064867

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928023	20237	42393	1584	527

Description

6500736957 asps:mj1555 aspartyl-trna synthetase:aspartate--trna ligase:asprs (gtcfc:5.2:10.6) (ec:6.1.1.12) (keggfc:5.2:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1555 MJ1555 Methanococcus jannaschii 2190 -11540815 121506 asps:mj1555 (ec:6.1.1.12) (de:(asprs)) (db:swissprot) SYD_METJA Q58950 METHANOCOCCUS JANNASCHII 2190 -11540815 172976 aspartate--trna ligase::aspartyl-trna synthetase (cl:lysine--trna ligase) (ec:6.1.1.12) (db:pir2.dat) (mp:for1531347-1532663) B64494 B64494 Methanococcus jannaschii 2190 -11540815 247988 mj1555 aspartyl-trna synthetase asps (db:genpept-bct1) (de:methanococcus jannaschii section 138 of 150 of the complete genome.) (nt:similar to pid:1136773 sp:q52428 percent identity:) (le:3643) (re:4959) (di:direct) U67596 U67596 g1592183 Methanococcus jannaschii 2190 -11540815 5000698046 (de:(mj1555) (pn:aspartate--trna ligase:asprs:aspartyl-trna synthetase) (gn:asps) (gtcfc:5.2:10.6) (ec:6.1.1.12) (syd_metja) (keggfc:5.2:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1555 MJ1555 Methanococcus jannaschii 2190 10064876

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928029	20238	42394	1533	510

Description

6500736958 asd:mj0205 aspartate-semialdehyde dehydrogenase:asa dehydrogenase (gtcfc:5.2) (ec:1.2.1.11) (keggfc:5.3:5.8) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0205 MJ0205 Methanococcus jannaschii 2190 -11540816 118006 asd:mj0205 (ec:1.2.1.11) (de:dehydrogenase)) (db:swissprot) DHAS_METJA Q57658 METHANOCOCCUS JANNASCHII 2190 -11540816 172977 aspartate-semialdehyde dehydrogenase (cl:yeast aspartate-semialdehyde dehydrogenase) (ec:1.2.1.11) (db:pir2.dat) (mp:rev198471-197407) F64325 F64325 Methanococcus jannaschii 2190 -11540816 246640 mj0205 aspartate-semialdehyde dehydrogenase asd (db:genpept-bct1) (de:methanococcus jannaschii section 18 of 150 of the complete genome.) (nt:similar to gb:m77500 pid:149613 percent identity:) (le:6215) (re:7279) (di:complement) U67476 U67476 g1590948 Methanococcus jannaschii 2190 -11540816 5000698048 (de:(mj0205) (pn:asa dehydrogenase:aspartate-semialdehyde dehydrogenase) (gn:asd) (gtcfc:5.3:5.8) (ec:1.2.1.11) (dhas_metja) (keggfc:5.3:5.8) (tigrfc:1.2) (db:gtc-methanococcus jannaschii)) MJ0205 MJ0205 Methanococcus jannaschii 2190 10060019

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928038	20239	42395	1443	480

Description

GTC ORF with score 135 to: (or:Sus scrofa) (fn:gel formation, gastric epithelial protection) (sr:pig) (db:genpept-mam) (de:sus scrofa yorkshire/chester white/hampshire clone pgm-ssz-9bgastric mucin mrna, partial cds.) (le:<1) (re:1584) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928043	20240	42396	591	196

Description

6500736959 dapa:mj0244 dihydrodipicolinate synthase:dhdps (gtcfc:5.2:5.8) (ec:4.2.1.52) (keggfc:5.8) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0244 MJ0244 Methanococcus jannaschii 2190 -11540817 500684869 dapa:mj0244 (ec:4.2.1.52) (de:dihydrodipicolinate synthase, (dhdps)) (db:swissprot) DAPA_METJA Q57695 METHANOCOCCUS JANNASCHII 2190 -11540817 173052 dihydrodipicolinate synthase (ec:4.2.1.52) (db:pir2.dat) (mp:rev233451-232582) E64330 E64330 Methanococcus jannaschii 2190 -11540817 246679 mj0244 dihydrodipicolinate synthase dapa (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to gb:l08471 sp:q04796 pid:142830) (le:511) (re:1380) (di:complement) U67480 U67480 g1590977 Methanococcus jannaschii 2190 -11540817 5000698071 (de:(mj0244) (pn:dihydrodipicolinate synthase) (gtcfc:5.8) (ec:4.2.1.52) (keggfc:5.8) (tigrfc:1.2) (db:gtc-methanococcus jannaschii)) MJ0244 MJ0244 Methanococcus jannaschii 2190 10060023

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928049	20241	42397	522	173

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928065	20242	42398	183	60

Description

6500736960 dapb:mj0422 dihydrodipicolinate reductase (gtcfc:5.2:5.8) (ec:1.3.1.26) (keggfc:5.8) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0422 MJ0422 Methanococcus jannaschii 2190 -11540818 1500686916 dapb:mj0422 (ec:1.3.1.26) (de:dihydrodipicolinate reductase,) (db:swissprot) DAPB_METJA Q57865 METHANOCOCCUS JANNASCHII 2190 -11540818 173051 dihydrodipicolinate reductase (cl:dihydrodipicolinate reductase) (ec:1.3.1.26) (db:pir2.dat) (mp:rev381789-380917) F64352 F64352 Methanococcus jannaschii 2190 -11540818 246856 mj0422 dihydrodipicolinate reductase dapb (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:similar to sp:p42976 pid:755603 pid:1146234) (le:4378) (re:5250) (di:complement) U67494 U67494 g1591125 Methanococcus jannaschii 2190 -11540818 5000698072 (de:(mj0422) (pn:dihydrodipicolinate reductase) (gtcfc:5.8) (ec:1.3.1.26) (keggfc:5.8) (tigrfc:1.2) (db:gtc-methanococcus jannaschii)) MJ0422 MJ0422 Methanococcus jannaschii 2190 10063016

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928067	20243	42399	549	182

Description

5000698073 succinyl-diaminopimelate desuccinylase:dape:hypothetical protein (gtcfc:5.2) (keggfc:14.2) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0457 MJ0457 Methanococcus jannaschii 2190 -11540819 4000707578 mj0457 (de:hypothetical protein mj0457) (db:swissprot) Y457_METJA Q57899 METHANOCOCCUS JANNASCHII 2190 -11540819 174555 succinyl-diaminopimelate desuccinylase (cl:succinyl-diaminopimelate desuccinylase) (ec:3.5.1.18) (db:pir2.dat) (mp:for407956-409188) A64357 A64357 Methanococcus jannaschii 2190 -11540819 246891 mj0457 succinyl-diaminopimelate desuccinylase dape (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44514 pid:1003108) (le:9239) (re:10471) (di:direct) U67496 U67496 g1591159 Methanococcus jannaschii 2190 -11540819 6500736961 succinyl-diaminopimelate desuccinylase:dape:hypothetical protein (gtcfc:5.2) (keggfc:14.2) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0457 MJ0457 Methanococcus jannaschii 2190 -11540819

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928068	20244	42400	501	166

Description

5000698050 lysc:probable aspartokinase:aspartate kinase (gtcfc:5.2:5.3:5.8) (keggfc:5.3:5.8) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0571 MJ0571 Methanococcus jannaschii 2190 -11540820 4000707584 mj0571 (ec:2.7.2.4) (de:probable aspartokinase, (aspartate kinase)) (db:swissprot) AK_METJA Q57991 METHANOCOCCUS JANNASCHII 2190 -11540820 172973 aspartate kinase:i:aspartokinase i (cl:aspartate kinase i:aspartate kinase homology) (ec:2.7.2.4) (db:pir2.dat) (mp:for508401-509822) C64371 C64371 Methanococcus jannaschii 2190 -11540820 247005 mj0571 aspartate kinase lysc (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to pid:928811 sp:p53553 percent identity:) (le:3630) (re:5051) (di:direct) U67506 U67506 g1591278 Methanococcus jannaschii 2190 -11540820 6500736962 lysc:probable aspartokinase:aspartate kinase (gtcfc:5.2:5.3:5.8) (keggfc:5.3:5.8) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0571 MJ0571 Methanococcus jannaschii 2190 -11540820

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928082	20245	42401	501	166

Description

5000698079 aspartate aminotransferase:aspc:serine aminotransferase (gtcfc:5.2) (keggfc:14.2) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0959 MJ0959 Methanococcus jannaschii 2190 -11540821 174537 serine aminotransferase (cl:aspartate aminotransferase) (db:pir2.dat) (mp:rev891739-890582) G64419 G64419 Methanococcus jannaschii 2190 -11540821 247393 mj0959 aspartate aminotransferase aspc (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to pid:704449 gb:ae000666 percent identity:) (le:6788) (re:7945) (di:complement) U67539 U67539 g1591623 Methanococcus jannaschii 2190 -11540821 6500736963 aspartate aminotransferase:aspc:serine aminotransferase (gtcfc:5.2) (keggfc:14.2) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ0959 MJ0959 Methanococcus jannaschii 2190 -11540821

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928083	20246	42402	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928088	20247	42403	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928091	20248	42404	264	87

Description

6500736964 lysa:mj1097 diaminopimelate decarboxylase:dap decarboxylase (gtcfc:5.2:5.8) (ec:4.1.1.20) (keggfc:5.8) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ1097 MJ1097 Methanococcus jannaschii 2190 -11540822 5500685069 lysa:mj1097 (ec:4.1.1.20) (de:diaminopimelate decarboxylase, (dap decarboxylase)) (db:swissprot) DCDA_METJA Q58497 METHANOCOCCUS JANNASCHII 2190 -11540822 173049 diaminopimelate decarboxylase (cl:diaminopimelate decarboxylase) (ec:4.1.1.20) (db:pir2.dat) (mp:rev1038517-1037201) H64436 H64436 Methanococcus jannaschii 2190 -11540822 247530 mj1097 diaminopimelate decarboxylase lysa (db:genpept-bct1) (de:methanococcus jannaschii section 94 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44316 pid:1005663) (le:6412) (re:7728) (di:complement) U67552 U67552 g1591741 Methanococcus jannaschii 2190 -11540822 5000698074 (de:(mj1097) (pn:diaminopimelate decarboxylase) (gtcfc:5.8) (ec:4.1.1.20) (keggfc:5.8) (tigrfc:1.2) (db:gtc-methanococcus jannaschii)) MJ1097 MJ1097 Methanococcus jannaschii 2190 10091470

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928092	20249	42405	327	108

Description

6500736965 thrb:mj1104 homoserine kinase:hk (gtcfc:5.2:5.3) (ec:2.7.1.39) (keggfc:5.3) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ1104 MJ1104 Methanococcus jannaschii 2190 -11540823 119830 thrb:mj1104 (ec:2.7.1.39) (de:homoserine kinase, (hk)) (db:swissprot) KHSE_METJA Q58504 METHANOCOCCUS JANNASCHII 2190 -11540823 173187 homoserine kinase (ec:2.7.1.39) (db:pir2.dat) (mp:rev1045134-1044232) G64437 G64437 Methanococcus jannaschii 2190 -11540823 247537 mj1104 homoserine kinase thrb (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44504 pid:1003080) (le:3829) (re:4731) (di:complement) U67553 U67553 g1591748 Methanococcus jannaschii 2190 -11540823 5000698052 (de:(mj1104) (pn:hk:homoserine kinase) (gn:thrb) (gtcfc:5.3) (ec:2.7.1.39) (khse_metja) (keggfc:5.3) (tigrfc:1.2) (db:gtc-methanococcus jannaschii)) MJ1104 MJ1104 Methanococcus jannaschii 2190 10062546

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928093	20250	42406	861	286

Description

6500736966 dapf:mj1119 diaminopimelate epimerase (gtcfc:5.2:5.8) (ec:5.1.1.7) (keggfc:5.8) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ1119 MJ1119 Methanococcus jannaschii 2190 -11540824 1500685989 dapf:mj1119 (ec:5.1.1.7) (de:diaminopimelate epimerase, (dap epimerase)) (db:swissprot) DAPF_METJA Q58519 METHANOCOCCUS JANNASCHII 2190 -11540824 173050 diaminopimelate epimerase (cl:diaminopimelate epimerase) (ec:5.1.1.7) (db:pir2.dat) (mp:for1059450-1060337) F64439 F64439 Methanococcus jannaschii 2190 -11540824 247552 mj1119 diaminopimelate epimerase dapf (db:genpept-bct1) (de:methanococcus jannaschii section 96 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44859 pid:1005706) (le:9141) (re:10028) (di:direct) U67554 U67554 g1591758 Methanococcus jannaschii 2190 -11540824 5000698075 (de:(mj1119) (pn:diaminopimelate epimerase) (gtcfc:5.8) (ec:5.1.1.7) (keggfc:5.8) (tigrfc:1.2) (db:gtc-methanococcus jannaschii)) MJ1119 MJ1119 Methanococcus jannaschii 2190 10059994

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928094	20251	42407	276	91

Description

6500736967 adenosylhomocysteinase:ahcy:s-adenosylhomocysteine hydrolase (gtcfc:5.2:5.4:6.4) (ec:3.3.1.1) (keggfc:5.4:6.4) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ1388 MJ1388 Methanococcus jannaschii 2190 -11540825 5000698059 ahcy:mj1388 (ec:3.3.1.1) (de:hydrolase) (adohcyase)) (db:swissprot) SAHH_METJA Q58783 METHANOCOCCUS JANNASCHII 2190 -11540825 124715 adenosylhomocysteinase::s-adenosyl-l-homocysteine hydrolase (cl:adenosylhomocysteinase) (ec:3.3.1.1) (db:pir1.dat) (mp:for1335810-1337057) C64473 C64473 Methanococcus jannaschii 2190 -11540825 247821 mj1388 adenosylhomocysteinase ahcy (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to pid:927551 sp:p50252 percent identity:) (le:7408) (re:8655) (di:direct) U67578 U67578 g1592034 Methanococcus jannaschii 2190 -11540825

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928110	20252	42408	1164	387

Description

6500736968 thrc:threonine synthase (gtcfc:5.2:5.3:9.3) (ec:4.2.99.2) (keggfc:5.3:9.3) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) (gtcfc:l-amino acid metabolism-alanine and aspartate metabolism:l-amino acid metabolism-glycine--serine and threonine metabolism:metabolism of cofactors a... MJ1465 MJ1465 Methanococcus jannaschii 2190 -11540826 5000698055 thrc:mj1465 (ec:4.2.99.2) (de:probable threonine synthase,) (db:swissprot) THRC_METJA Q58860 METHANOCOCCUS JANNASCHII 2190 -11540826 174566 thrc threonine synthase (cl:threonine dehydratase) (ec:4.2.99.2) (db:pir2.dat) (mp:rev1435420-1434203) H64482 H64482 Methanococcus jannaschii 2190 -11540826 247898 mj1465 threonine synthase thrc (db:genpept-bct1) (de:methanococcus jannaschii section 129 of 150 of the complete genome.) (nt:similar to sp:p04990 gb:m23217 pid:40211 pid:558495) (le:3734) (re:4951) (di:complement) U67587 U67587 g1592106 Methanococcus jannaschii 2190 -11540826

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928112	20253	42409	507	168

Description

6500736969 5-methyltetrahydropteroyltriglutamate-homocysteine methyltransferase:mete:cobalamin-independent methionine synthase (gtcfc:5.2:5.4) (ec:2.1.1.14) (keggfc:5.4) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ1473 MJ1473 Methanococcus jannaschii 2190 -11540827 7500922748 mj1473 (de:hypothetical protein mj1473) (db:swissprot) YE73_METJA Q58868 METHANOCOCCUS JANNASCHII 2190 -11540827 172921 5-methyltetrahydropteroyltriglutamate--homocysteine s-methyltransferase::cobalamin-independent methionine synthase (cl:5-methyltetrahydropteroyltriglutamate--homocysteine s-methyltransferase) (ec:2.1.1.14) (db:pir2.dat) (mp:rev1445737-1444802) H64483 H64483 Methanococcus jannaschii 2190 -11540827 7500922750 mj1473 5-methyltetrahydropteroyltriglutamate- (db:genpept-bct1) (de:methanococcus jannaschii section 130 of 150 of the complete genome.) (nt:similar to pid:1103707 sp:p55299 percent ident:) (le:8400) (re:9335) (di:complement) U67588 U67588 g1592112 Methanococcus jannaschii 2190 -11540827 247906 mju67588 (le:1444802) (re:1445737) (di:direct) (de:or:methanococcus jannaschii pn:cobalamin-independent methionine synthase gn:mj1473 le:4311 re:5246 di:complement nt:similar to x92082_1 percent identity: 47.9;) U67588 U67588 g1592112 Methanococcus jannaschii 2190 -11540827 5000698060 (de:(mj1473) (pn:cobalamin-independent methionine synthase) (gtcfc:5.4) (ec:2.1.1.14) (keggfc:5.4) (tigrfc:1.2) (db:gtc-methanococcus jannaschii)) MJ1473 MJ1473 Methanococcus jannaschii 2190 10091396

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928144	20254	42410	1602	533

Description

6500736970 hom:homoserine dehydrogenase (gtcfc:5.2:5.3:5.8) (ec:1.1.1.3) (keggfc:5.3:5.8) (tigrfc:1.3) (db:gtc-methanococcus jannaschii) MJ1602 MJ1602 Methanococcus jannaschii 2190 -11540828 173186 homoserine dehydrogenase (cl:homoserine dehydrogenase:homoserine dehydrogenase homology) (ec:1.1.1.3) (db:pir2.dat) (mp:for1574042-1575052) A64500 A64500 Methanococcus jannaschii 2190 -11540828 248035 mj1602 homoserine dehydrogenase hom (db:genpept-bct1) (de:methanococcus jannaschii section 142 of 150 of the complete genome.) (nt:similar to sp:p19582 gb:m23217 pid:558494) (le:3635) (re:4645) (di:direct) U67600 U67600 g1500499 Methanococcus jannaschii 2190 -11540828 5000698057 (de:(mj1602) (pn:homoserine dehydrogenase) (gtcfc:5.3:5.8) (ec:1.1.1.3) (keggfc:5.3:5.8) (tigrfc:1.2) (db:gtc-methanococcus jannaschii)) MJ1602 MJ1602 Methanococcus jannaschii 2190 10069327

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928162	20255	42411	501	166

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928184	20256	42412	618	205

Description

5000698047 3-isopropylmalate dehydratase:leuc:homoaconitase (gtcfc:5.2) (keggfc:14.2) (tigrfc:1.5) (db:gtc-methanococcus jannaschii) MJ1003 MJ1003 Methanococcus jannaschii 2190 -11540829 7500884857 mj1003 (ec:4.2.1.33) (de:(isopropylmalate isomerase) (alpha-ipm isomerase) (ipmi)) (db:swissprot) LE21_METJA Q58409 METHANOCOCCUS JANNASCHII 2190 -11540829 173185 homoaconitate hydratase::homoaconitase (cl:aconitate hydratase) (ec:4.2.1.36) (db:pir2.dat) (mp:for931998-933260) B64425 B64425 Methanococcus jannaschii 2190 -11540829 7500884859 mj1003 3-isopropylmalate dehydratase leuc (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:similar to gb:d10483 sp:p30127 gb:d17631 gb:d17632) (le:76) (re:1338) (di:direct) U67543 U67543 g1591664 Methanococcus jannaschii 2190 -11540829 6500736971 3-isopropylmalate dehydratase:leuc:homoaconitase (gtcfc:5.2) (keggfc:14.2) (tigrfc:1.5) (db:gtc-methanococcus jannaschii) MJ1003 MJ1003 Methanococcus jannaschii 2190 -11540829 247436 mju67543 (le:931998) (re:933260) (di:direct) (de:or:methanococcus jannaschii pn:homoaconitase gn:mj1003 le:76 re:1338 di:direct nt:similar to pid:1197581 percent identity: 35.1;) U67543 U67543 g1591664 Methanococcus jannaschii 2190 -11540829

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928195	20257	42413	2940	979

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928216	20258	42414	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928243	20259	42415	6585	2195

Description

6500736972 ilve:branched-chain amino acid aminotransferase (gtcfc:5.2:5.6:5.7:9.5) (ec:2.6.1.42) (keggfc:5.6:5.7:9.5) (tigrfc:1.5) (db:gtc-methanococcus jannaschii) MJ1008 MJ1008 Methanococcus jannaschii 2190 -11540830 7500884054 ilve:mj1008 (ec:2.6.1.42) (de:(transaminase b) (bcat)) (db:swissprot) ILVE_METJA Q58414 METHANOCOCCUS JANNASCHII 2190 -11540830 172986 branched-chain amino acid aminotransferase (cl:branched-chain-amino-acid aminotransferase) (db:pir2.dat) (mp:rev939094-938228) G64425 G64425 Methanococcus jannaschii 2190 -11540830 7500884056 mj1008 branched-chain amino acid aminotransferase (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:similar to gb:m10313 sp:p00510 gb:m32253 gb:v00290) (le:6306) (re:7172) (di:complement) U67543 U67543 g1591667 Methanococcus jannaschii 2190 -11540830 247441 mju67543 (le:938228) (re:939094) (di:direct) (de:or:methanococcus jannaschii pn:branched-chain amino acid aminotransferase gn:mj1008 le:6306 re:7172 di:complement nt:similar to p00510 percent identity: 43.0;) U67543 U67543 g1591667 Methanococcus jannaschii 2190 -11540830 5000698061 (de:(mj1008) (pn:branched-chain amino acid aminotransferase) (gtcfc:5.6:5.7) (ec:2.6.1.42) (keggfc:5.6:5.7) (tigrfc:1.4) (db:gtc-methanococcus jannaschii)) MJ1008 MJ1008 Methanococcus jannaschii 2190 10091427

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928246	20260	42416	1452	483

Description

6500736973 leud:3-isopropylmalate dehydratase (gtcfc:5.2:5.7) (ec:4.2.1.33) (keggfc:5.7) (tigrfc:1.5) (db:gtc-methanococcus jannaschii) MJ1271 MJ1271 Methanococcus jannaschii 2190 -11540831 7500884875 mj1271 (ec:4.2.1.33) (de:(isopropylmalate isomerase) (alpha-ipm isomerase)) (db:swissprot) LE23_METJA Q58667 METHANOCOCCUS JANNASCHII 2190 -11540831 172918 3-isopropylmalate dehydratase (ec:4.2.1.33) (db:pir2.dat) (mp:for1215638-1216150) F64458 F64458 Methanococcus jannaschii 2190 -11540831 7500884877 mj1271 3-isopropylmalate dehydratase leud (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:similar to gb:d10483 sp:p30126 pid:216489 gb:u00096) (le:128) (re:640) (di:direct) U67568 U67568 g1591907 Methanococcus jannaschii 2190 -11540831 247704 mju67568 (le:1215638) (re:1216150) (di:direct) (de:or:methanococcus jannaschii pn:3-isopropylmalate dehydratase gn:mj1271 le:128 re:640 di:direct nt:similar to p04787 percent identity: 41.6;) U67568 U67568 g1591907 Methanococcus jannaschii 2190 -11540831 5000698065 (de:(mj1271) (pn:3-isopropylmalate dehydratase) (gtcfc:5.7) (ec:4.2.1.33) (keggfc:5.7) (tigrfc:1.4) (db:gtc-methanococcus jannaschii)) MJ1271 MJ1271 Methanococcus jannaschii 2190 10091394

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928275	20261	42417	1011	337

Description

6500736974 ilvd:dihydroxy-acid dehydratase (gtcfc:5.2:5.7:9.5) (ec:4.2.1.9) (keggfc:5.7:9.5) (tigrfc:1.5) (db:gtc-methanococcus jannaschii) MJ1276 MJ1276 Methanococcus jannaschii 2190 -11540832 173056 dihydroxy-acid dehydratase (cl:dihydroxy-acid dehydratase) (ec:4.2.1.9) (db:pir2.dat) (mp:rev1222335-1220650) C64459 C64459 Methanococcus jannaschii 2190 -11540832 247709 mj1276 dihydroxy-acid dehydratase ilvd (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:similar to gb:m90761 sp:q02139 pid:149431 percent) (le:5140) (re:6825) (di:complement) U67568 U67568 g1591912 Methanococcus jannaschii 2190 -11540832 5000698066 (de:(mj1276) (pn:dihydroxy-acid dehydratase) (gtcfc:5.7:9.5) (ec:4.2.1.9) (keggfc:5.7:9.5) (tigrfc:1.4) (db:gtc-methanococcus jannaschii)) MJ1276 MJ1276 Methanococcus jannaschii 2190 10091474

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928293	20262	42418	1473	490

Description

6500736975 leud:3-isopropylmalate dehydratase (gtcfc:5.2:5.7) (ec:4.2.1.33) (keggfc:5.7) (tigrfc:1.5) (db:gtc-methanococcus jannaschii) MJ1277 MJ1277 Methanococcus jannaschii 2190 -11540833 7500884884 mj1277 (ec:4.2.1.33) (de:(isopropylmalate isomerase) (alpha-ipm isomerase)) (db:swissprot) LE24_METJA Q58673 METHANOCOCCUS JANNASCHII 2190 -11540833 172917 3-isopropylmalate dehydratase (ec:4.2.1.33) (db:pir2.dat) (mp:rev1223059-1222553) D64459 D64459 Methanococcus jannaschii 2190 -11540833 7500884886 mj1277 3-isopropylmalate dehydratase leud (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:similar to gb:l06666 sp:p31960 pid:144841 percent) (le:7043) (re:7549) (di:complement) U67568 U67568 g1591913 Methanococcus jannaschii 2190 -11540833 247710 mju67568 (le:1222553) (re:1223059) (di:direct) (de:or:methanococcus jannaschii pn:3-isopropylmalate dehydratase gn:mj1277 le:7043 re:7549 di:complement nt:similar to p31960 percent identity: 49.5;) U67568 U67568 g1591913 Methanococcus jannaschii 2190 -11540833 5000698067 (de:(mj1277) (pn:3-isopropylmalate dehydratase) (gtcfc:5.7) (ec:4.2.1.33) (keggfc:5.7) (tigrfc:1.4) (db:gtc-methanococcus jannaschii)) MJ1277 MJ1277 Methanococcus jannaschii 2190 10091393

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928300	20263	42419	831	276

Description

6500736976 ilvc:ketol-acid reductoisomerase (gtcfc:5.2:5.7:9.5) (ec:1.1.1.86) (keggfc:5.7:9.5) (tigrfc:1.5) (db:gtc-methanococcus jannaschii) MJ1543 MJ1543 Methanococcus jannaschii 2190 -11540834 174303 ketol-acid reductoisomerase (cl:methanococcus ketol-acid reductoisomerase:ketol-acid reductoisomerase homology) (ec:1.1.1.86) (db:pir2.dat) (mp:for1521365-1522411) F64492 F64492 Methanococcus jannaschii 2190 -11540834 247976 mj1543 ketol-acid reductoisomerase ilvc (db:genpept-bct1) (de:methanococcus jannaschii section 137 of 150 of the complete genome.) (nt:similar to gb:l03181 sp:p37253 pid:143093) (le:4706) (re:5752) (di:direct) U67595 U67595 g1592174 Methanococcus jannaschii 2190 -11540834 5000698068 (de:(mj1543) (pn:ketol-acid reductoisomerase) (gtcfc:5.7:9.5) (ec:1.1.1.86) (keggfc:5.7:9.5) (tigrfc:1.4) (db:gtc-methanococcus jannaschii)) MJ1543 MJ1543 Methanococcus jannaschii 2190 10092361

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928302	20264	42420	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928317	20265	42421	3495	1164

Description

6500736977 glycyl-trna synthetase:glys:probable glycyl-trna synthetase:glycine--trna ligase:glyrs (gtcfc:5.3:10.6) (ec:6.1.1.14) (keggfc:5.3:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0228 MJ0228 Methanococcus jannaschii 2190 -11540835 500685321 glys:mj0228 (ec:6.1.1.14) (de:(glyrs)) (db:swissprot) SYG_METJA Q57681 METHANOCOCCUS JANNASCHII 2190 -11540835 173151 glycine--trna ligase::glycyl-trna synthetase (cl:glycine--trna ligase) (ec:6.1.1.14) (db:pir2.dat) (mp:for219107-220840) E64328 E64328 Methanococcus jannaschii 2190 -11540835 246663 mj0228 glycyl-trna synthetase glys (db:genpept-bct1) (de:methanococcus jannaschii section 20 of 150 of the complete genome.) (nt:similar to sp:p38088 pid:536402 pid:565058 percent) (le:7863) (re:9596) (di:direct) U67478 U67478 g1499005 Methanococcus jannaschii 2190 -11540835 5000698049 (de:(mj0228) (pn:glycyl-trna synthetase) (gtcfc:5.3:10.6) (ec:6.1.1.14) (keggfc:5.3:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ0228 MJ0228 Methanococcus jannaschii 2190 10064896

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928329	20266	42422	255	84

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928333	20267	42423	933	310

Description

6500736978 sera:phosphoglycerate dehydrogenase (gtcfc:5.3) (ec:1.1.1.95) (keggfc:5.3) (tigrfc:1.6) (db:gtc-methanococcus jannaschii) MJ1018 MJ1018 Methanococcus jannaschii 2190 -11540836 7500891535 sera:mj1018 (ec:1.1.1.95) (de:d-3-phosphoglycerate dehydrogenase, (pgdh)) (db:swissprot) SERA_METJA Q58424 METHANOCOCCUS JANNASCHII 2190 -11540836 174412 phosphoglycerate dehydrogenase (cl:bacillus phosphoglycerate dehydrogenase) (ec:1.1.1.95) (db:pir2.dat) (mp:rev949128-947554) A64427 A64427 Methanococcus jannaschii 2190 -11540836 7500891537 mj1018 phosphoglycerate dehydrogenase sera (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:similar to gb:l09228 sp:p35136 pid:1146196) (le:5684) (re:7258) (di:complement) U67544 U67544 g1591676 Methanococcus jannaschii 2190 -11540836 247451 mju67544 (le:947554) (re:949128) (di:direct) (de:or:methanococcus jannaschii pn:phosphoglycerate dehydrogenase gn:mj1018 le:5684 re:7258 di:complement nt:similar to l47648_1 percent identity: 42.0;) U67544 U67544 g1591676 Methanococcus jannaschii 2190 -11540836 5000698051 (de:(mj1018) (pn:phosphoglycerate dehydrogenase) (gtcfc:5.3) (ec:1.1.1.95) (keggfc:5.3) (tigrfc:1.5) (db:gtc-methanococcus jannaschii)) MJ1018 MJ1018 Methanococcus jannaschii 2190 10092432

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928354	20268	42424	378	125

Description

6500736979 sers:seryl-trna synthetase (gtcfc:5.3:10.6) (ec:6.1.1.11) (keggfc:5.3:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1077 MJ1077 Methanococcus jannaschii 2190 -11540837 7500892582 sers:mj1077 (ec:6.1.1.11) (de:seryl-trna synthetase, (serine--trna ligase) (serrs)) (db:swissprot) SYS_METJA Q58477 METHANOCOCCUS JANNASCHII 2190 -11540837 174538 serine--trna ligase::seryl-trna synthetase (ec:6.1.1.11) (db:pir2.dat) (mp:rev1018247-1016682) D64434 D64434 Methanococcus jannaschii 2190 -11540837 7500892584 mj1077 seryl-trna synthetase sers (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:similar to gb:l77117 pid:1591725 percent ident:) (le:5840) (re:7405) (di:complement) U67550 U67550 g1591725 Methanococcus jannaschii 2190 -11540837 247510 mju67550 (le:1016682) (re:1018247) (di:direct) (de:or:methanococcus jannaschii pn:seryl-trna synthetase gn:mj1077 le:5840 re:7405 di:complement nt:similar to p43833 percent identity: 26.5;) U67550 U67550 g1591725 Methanococcus jannaschii 2190 -11540837 5000698254 (de:(mj1077) (pn:seryl-trna synthetase) (gtcfc:10.6) (ec:) (keggfc:11.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1077 MJ1077 Methanococcus jannaschii 2190 10092473

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928360	20269	42425	468	155

Description

6500736980 thrs:mj1197 threonyl-trna synthetase:threonine--trna ligase:thrrs (gtcfc:5.3:10.6) (ec:6.1.1.3) (keggfc:5.3:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1197 MJ1197 Methanococcus jannaschii 2190 -11540838 500685336 thrs:mj1197 (ec:6.1.1.3) (de:(thrrs)) (db:swissprot) SYT_METJA Q58597 METHANOCOCCUS JANNASCHII 2190 -11540838 174567 threonine--trna ligase::threonyl-trna synthetase (cl:methanococcus jannaschii threonine--trna ligase) (ec:6.1.1.3) (db:pir2.dat) (mp:for1140235-1142109) D64449 D64449 Methanococcus jannaschii 2190 -11540838 247630 mj1197 threonyl-trna synthetase thrs (db:genpept-bct1) (de:methanococcus jannaschii section 103 of 150 of the complete genome.) (nt:similar to gb:m36594 sp:p18255 gb:x04963 pid:143766) (le:2980) (re:4854) (di:direct) U67561 U67561 g1591826 Methanococcus jannaschii 2190 -11540838 5000698053 (de:(mj1197) (pn:threonine--trna ligase:thrrs:threonyl-trna synthetase) (gn:thrs) (gtcfc:5.3:10.6) (ec:6.1.1.3) (syt_metja) (keggfc:5.3:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1197 MJ1197 Methanococcus jannaschii 2190 10064944

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928363	20270	42426	1662	553

Description

6500736981 serb:phosphoserine phosphatase (gtcfc:5.3) (ec:3.1.3.3) (keggfc:5.3) (tigrfc:1.6) (db:gtc-methanococcus jannaschii) MJ1594 MJ1594 Methanococcus jannaschii 2190 -11540839 174429 phosphoserine phosphatase (cl:phosphoserine phosphatase) (ec:3.1.3.3) (db:pir2.dat) (mp:for1565667-1566302) A64499 A64499 Methanococcus jannaschii 2190 -11540839 248027 mj1594 phosphoserine phosphatase serb (db:genpept-bct1) (de:methanococcus jannaschii section 141 of 150 of the complete genome.) (nt:similar to sp:p06862 gb:x03046 pid:42948 pid:537228) (le:4967) (re:5602) (di:direct) U67599 U67599 g1592204 Methanococcus jannaschii 2190 -11540839 5000698056 (de:(mj1594) (pn:phosphoserine phosphatase) (gtcfc:5.3) (ec:3.1.3.3) (keggfc:5.3) (tigrfc:1.5) (db:gtc-methanococcus jannaschii)) MJ1594 MJ1594 Methanococcus jannaschii 2190 10092439

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928368	20271	42427	1083	360

Description

5000698503 sulfate adenylate transferase:subunit 2:cysd:hypothetical protein (gtcfc:5.3) (keggfc:14.2) (tigrfc:1.6) (db:gtc-methanococcus jannaschii) MJ0066 MJ0066 Methanococcus jannaschii 2190 -11540840 118760 mj0066 (de:hypothetical protein mj0066) (db:swissprot) Y066_METJA Q60377 METHANOCOCCUS JANNASCHII 2190 -11540840 173320 hypothetical protein mj0066 (db:pir2.dat) (mp:rev65096-63654) B64308 B64308 Methanococcus jannaschii 2190 -11540840 246500 mj0066 sulfate adenylate transferase:subunit 2 cysd (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:similar to sp:q10599 pid:1322409 percent identity:) (le:4808) (re:6250) (di:complement) U67464 U67464 g1590856 Methanococcus jannaschii 2190 -11540840 6500736982 sulfate adenylate transferase:subunit 2:cysd:hypothetical protein (gtcfc:5.3) (keggfc:14.2) (tigrfc:1.6) (db:gtc-methanococcus jannaschii) MJ0066 MJ0066 Methanococcus jannaschii 2190 -11540840

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928369	20272	42428	312	103

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928371	20273	42429	246	81

Description

5000699460 3-phosphoadenosine 5-phosphosulfate sulfotransferase:cysh:hypothetical protein (gtcfc:5.3) (keggfc:14.2) (tigrfc:1.6) (db:gtc-methanococcus jannaschii) MJ0973 MJ0973 Methanococcus jannaschii 2190 -11540841 118855 mj0973 (de:hypothetical protein mj0973) (db:swissprot) Y973_METJA Q58383 METHANOCOCCUS JANNASCHII 2190 -11540841 173823 hypothetical protein mj0973 (db:pir2.dat) (mp:rev907730-906495) E64421 E64421 Methanococcus jannaschii 2190 -11540841 247407 mj0973 3-phosphoadenosine 5-phosphosulfate (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to gb:m23008 sp:p17854 gb:y07525 pid:145682) (le:5257) (re:6492) (di:complement) U67540 U67540 g1591636 Methanococcus jannaschii 2190 -11540841 6500736983 3-phosphoadenosine 5-phosphosulfate sulfotransferase:cysh:hypothetical protein (gtcfc:5.3) (keggfc:14.2) (tigrfc:1.6) (db:gtc-methanococcus jannaschii) MJ0973 MJ0973 Methanococcus jannaschii 2190 -11540841

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928388	20274	42430	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928396	20275	42431	540	179

Description

6500736984 mets:mj1263 methionyl-trna synthetase:methionine--trna ligase:metrs (gtcfc:5.4:6.4:10.6) (ec:6.1.1.10) (keggfc:5.4:6.4:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1263 MJ1263 Methanococcus jannaschii 2190 -11540842 500685330 mets:mj1263 (ec:6.1.1.10) (de:(metrs)) (db:swissprot) SYM_METJA Q58659 METHANOCOCCUS JANNASCHII 2190 -11540842 174322 methionine--trna ligase::methionyl-trna synthetase (cl:methionine--trna ligase) (ec:6.1.1.10) (db:pir2.dat) (mp:for1205666-1207621) F64457 F64457 Methanococcus jannaschii 2190 -11540842 247696 mj1263 methionyl-trna synthetase mets (db:genpept-bct1) (de:methanococcus jannaschii section 109 of 150 of the complete genome.) (nt:similar to sp:p23920 gb:x57925 pid:39989 percent) (le:91) (re:2046) (di:direct) U67567 U67567 g1591898 Methanococcus jannaschii 2190 -11540842 5000698058 (de:(mj1263) (pn:methionine--trna ligase:metrs:methionyl-trna synthetase) (gn:mets) (gtcfc:5.4:6.4:10.6) (ec:6.1.1.10) (sym_metja) (keggfc:5.4:6.4:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1263 MJ1263 Methanococcus jannaschii 2190 10064926

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928397	20276	42432	378	125

Description

6500736985 leus:leucyl-trna synthetase (gtcfc:5.7:10.6) (ec:6.1.1.4) (keggfc:5.7:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0633 MJ0633 Methanococcus jannaschii 2190 -11540843 174300 isoleucine--trna ligase::leucyl-trna synthetase (cl:valine--trna ligase) (ec:6.1.1.5) (db:pir2.dat) (mp:for559523-562351) A64379 A64379 Methanococcus jannaschii 2190 -11540843 5500686017 leus:mj0633 (ec:6.1.1.4) (de:leucyl-trna synthetase, (leucine--trna ligase) (leurs)) (db:swissprot) SYL_METJA Q58050 METHANOCOCCUS JANNASCHII 2190 -11540843 247067 mju67511 (le:559523) (re:562351) (di:direct) (de:or:methanococcus jannaschii pn:leucyl-trna synthetase gn:mj0633 le:94 re:2922 di:direct nt:similar to p26637 percent identity: 35.2;) U67511 U67511 g1591345 Methanococcus jannaschii 2190 -11540843 5000698062 (de:(mj0633) (pn:leucyl-trna synthetase) (gtcfc:5.7:10.6) (ec:6.1.1.4) (keggfc:5.7:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ0633 MJ0633 Methanococcus jannaschii 2190 10092359

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928411	20277	42433	1407	468

Description

6500736986 iles:mj0947 isoleucyl-trna synthetase:isoleucine--trna ligase:ilers (gtcfc:5.7:10.6) (ec:6.1.1.5) (keggfc:5.7:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0947 MJ0947 Methanococcus jannaschii 2190 -11540844 500685322 iles:mj0947 (ec:6.1.1.5) (de:(ilers)) (db:swissprot) SYI_METJA Q58357 METHANOCOCCUS JANNASCHII 2190 -11540844 174301 isoleucine--trna ligase::isoleucyl-trna synthetase (cl:isoleucine--trna ligase) (ec:6.1.1.5) (db:pir2.dat) (mp:rev880662-877543) C64418 C64418 Methanococcus jannaschii 2190 -11540844 247381 mj0947 isoleucyl-trna synthetase iles (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:similar to gb:m59245 sp:p26499 pid:149728) (le:3997) (re:7116) (di:complement) U67538 U67538 g1591614 Methanococcus jannaschii 2190 -11540844 5000698063 (de:(mj0947) (pn:isoleucine--trna ligase:ilers:isoleucyl-trna synthetase) (gn:iles) (gtcfc:5.7:10.6) (ec:6.1.1.5) (syi_metja) (keggfc:5.7:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ0947 MJ0947 Methanococcus jannaschii 2190 10064908

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928438	20278	42434	3069	1022

Description

6500736987 vals:mj1007 valyl-trna synthetase:valine--trna ligase:valrs (gtcfc:5.7:10.6) (ec:6.1.1.9) (keggfc:5.7:10.1:10.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ1007 MJ1007 Methanococcus jannaschii 2190 -11540845 500685338 vals:mj1007 (ec:6.1.1.9) (de:valyl-trna synthetase, (valine--trna ligase) (valrs)) (db:swissprot) SYV_METJA Q58413 METHANOCOCCUS JANNASCHII 2190 -11540845 174616 valine--trna ligase::valyl-trna synthetase (cl:valine--trna ligase) (ec:6.1.1.9) (db:pir2.dat) (mp:for935544-938180) F64425 F64425 Methanococcus jannaschii 2190 -11540845 247440 mj1007 valyl-trna synthetase vals (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:similar to gb:m16318 sp:p11931 pid:143797 percent) (le:3622) (re:6258) (di:direct) U67543 U67543 g1591666 Methanococcus jannaschii 2190 -11540845 5000698064 (de:(mj1007) (pn:valine--trna ligase:valrs:valyl-trna synthetase) (gn:vals) (gtcfc:5.7:10.6) (ec:6.1.1.9) (syv_metja) (keggfc:5.7:10.1:10.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii)) MJ1007 MJ1007 Methanococcus jannaschii 2190 10064947

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928450	20279	42435	654	217

Description

6500736988 collagenase:prtc:putative protease (gtcfc:5.9:10.11) (ec:3.4.-.-) (keggfc:5.9) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ0090 MJ0090 Methanococcus jannaschii 2190 -11540846 120939 mj0090 (ec:3.4.-.-) (de:putative protease mj0090,) (db:swissprot) Y090_METJA Q57555 METHANOCOCCUS JANNASCHII 2190 -11540846 173038 collagenase prtc homolog (cl:collagenase prtc) (db:pir2.dat) (mp:for84386-85609) B64311 B64311 Methanococcus jannaschii 2190 -11540846 246524 mj0090 collagenase prtc (db:genpept-bct1) (de:methanococcus jannaschii section 8 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44700 pid:1003722) (le:4849) (re:6072) (di:direct) U67466 U67466 g1590871 Methanococcus jannaschii 2190 -11540846 5000698076 (de:(mj0090) (pn:putative protease mj0090:collagenase) (gtcfc:5.9) (ec:3.4.-.-) (y090_metja) (keggfc:5.9) (tigrfc:12.3) (db:gtc-methanococcus jannaschii)) MJ0090 MJ0090 Methanococcus jannaschii 2190 10064138

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928458	20280	42436	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928459	20281	42437	234	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928465	20282	42438	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928468	20283	42439	1374	457

Description

6500736989 signal sequence peptidase i:sec11:signal peptidase (gtcfc:10.7:11.1:12.10) (ec:3.4.-.-) (keggfc:5.9) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0260 MJ0260 Methanococcus jannaschii 2190 -11540847 500685003 mj0260 (de:hypothetical protein mj0260) (db:swissprot) Y260_METJA Q57708 METHANOCOCCUS JANNASCHII 2190 -11540847 174540 signal peptidase i (ec:3.4.99.36) (db:pir2.dat) (mp:rev246325-245714) E64332 E64332 Methanococcus jannaschii 2190 -11540847 246695 mj0260 signal sequence peptidase i:sec11 (db:genpept-bct1) (de:methanococcus jannaschii section 23 of 150 of the complete genome.) (nt:similar to gb:z47047 sp:p15367 pid:4433 pid:557828) (le:3061) (re:3672) (di:complement) U67481 U67481 g1590989 Methanococcus jannaschii 2190 -11540847 5000698077 (de:(mj0260) (pn:signal peptidase) (gtcfc:5.9) (ec:3.4.-.-) (keggfc:5.9) (tigrfc:4.5) (db:gtc-methanococcus jannaschii)) MJ0260 MJ0260 Methanococcus jannaschii 2190 10061230

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928498	20284	42440	213	70

Description

5000698078 protease iv:sppa:putative protease (gtcfc:5.9:10.11) (keggfc:5.9) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ0651 MJ0651 Methanococcus jannaschii 2190 -11540848 174452 proteinase iv (cl:proteinase iv mth806) (ec:3.4.-.-) (db:pir2.dat) (mp:rev580465-579518) C64381 C64381 Methanococcus jannaschii 2190 -11540848 120936 mj0651 (ec:3.4.-.-) (de:putative protease mj0651,) (db:swissprot) Y651_METJA Q58067 METHANOCOCCUS JANNASCHII 2190 -11540848 6500736990 protease iv:sppa:putative protease (gtcfc:5.9:10.11) (keggfc:5.9) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ0651 MJ0651 Methanococcus jannaschii 2190 -11540848 247085 mju67512 (le:579518) (re:580465) (di:direct) (de:or:methanococcus jannaschii pn:protease iv gn:mj0651 le:9588 re:10535 di:complement nt:similar to p45243 percent identity: 34.9;) U67512 U67512 g1591363 Methanococcus jannaschii 2190 -11540848

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928524	20285	42441	339	112

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928532	20286	42442	489	162

Description

5000698080 thioredoxin:trx:hypothetical thioredoxin-like protein (gtcfc:9.13) (keggfc:14.2) (tigrfc:2.8) (db:gtc-methanococcus jannaschii) MJ0307 MJ0307 Methanococcus jannaschii 2190 -11540849 1500687426 mj0307 (de:hypothetical thioredoxin-like protein mj0307) (db:swissprot) Y307_METJA Q57755 METHANOCOCCUS JANNASCHII 2190 -11540849 174565 thioredoxin/glutaredoxin (cl:probable glutaredoxin grx-2) (db:pir2.dat) (mp:rev288283-288026) D64338 D64338 Methanococcus jannaschii 2190 -11540849 246742 mj0307 thioredoxin trx (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to sp:p42035 percent identity: 52.44;) (le:6827) (re:7084) (di:complement) U67485 U67485 g1591029 Methanococcus jannaschii 2190 -11540849 6500736991 thioredoxin:trx:hypothetical thioredoxin-like protein (gtcfc:9.13) (keggfc:14.2) (tigrfc:2.8) (db:gtc-methanococcus jannaschii) MJ0307 MJ0307 Methanococcus jannaschii 2190 -11540849

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928539	20287	42443	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928544	20288	42444	537	178

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928549	20289	42445	234	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928551	20290	42446	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928558	20291	42447	1020	339

Description

5000698825 s-adenosylmethionine:2-demethylmenaquinone methyltransferase:meng:hypothetical protein (gtcfc:7.1) (keggfc:14.2) (tigrfc:6.11) (db:gtc-methanococcus jannaschii) MJ0644 MJ0644 Methanococcus jannaschii 2190 -11540850 4000708389 mj0644 (de:hypothetical protein mj0644) (db:swissprot) Y644_METJA Q58060 METHANOCOCCUS JANNASCHII 2190 -11540850 173236 conserved hypothetical protein mj0644 (cl:methanococcus jannaschii conserved hypothetical protein mj0644) (db:pir2.dat) (mp:for573517-574143) D64380 D64380 Methanococcus jannaschii 2190 -11540850 247078 mj0644 s-adenosylmethionine:2-demethylmenaquinone (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:similar to gb:l19201 sp:p32165 pid:305032 gb:u00096) (le:3587) (re:4213) (di:direct) U67512 U67512 g1591356 Methanococcus jannaschii 2190 -11540850 6500736992 s-adenosylmethionine:2-demethylmenaquinone methyltransferase:meng:hypothetical protein (gtcfc:7.1) (keggfc:14.2) (tigrfc:6.11) (db:gtc-methanococcus jannaschii) MJ0644 MJ0644 Methanococcus jannaschii 2190 -11540850

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928564	20292	42448	261	86

Description

6500736993 endoglucanase:celm:endo-1:4-beta-glucanase (gtcfc:7.2) (ec:3.2.1.4) (keggfc:7.1) (tigrfc:5.3) (db:gtc-methanococcus jannaschii) MJ0555 MJ0555 Methanococcus jannaschii 2190 -11540851 118123 mj0555 (de:hypothetical protein mj0555) (db:swissprot) Y555_METJA Q57975 METHANOCOCCUS JANNASCHII 2190 -11540851 173087 endoglucanase homolog (cl:thermophilic aminopeptidase i alpha chain) (db:pir2.dat) (mp:for490785-491837) C64369 C64369 Methanococcus jannaschii 2190 -11540851 246989 mj0555 endoglucanase celm (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:similar to gp:1097207 percent identity: 43.33;) (le:8960) (re:10012) (di:direct) U67504 U67504 g1591260 Methanococcus jannaschii 2190 -11540851 5000699459 (de:(mj0555) (pn:hypothetical protein mj0555:endoglucanase) (gtcfc:13.7) (ec:) (y555_metja) (keggfc:11.2) (tigrfc:5.2) (db:gtc-methanococcus jannaschii)) MJ0555 MJ0555 Methanococcus jannaschii 2190 10060181

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928567	20293	42449	228	75

Description

6500736994 glga:glycogen synthase (gtcfc:7.2) (ec:2.4.1.11) (keggfc:7.1) (tigrfc:5.6) (db:gtc-methanococcus jannaschii) MJ1606 MJ1606 Methanococcus jannaschii 2190 -11540852 7000685396 glga:mj1606 (ec:2.4.1.21) (de:synthase)) (db:swissprot) GLGA_METJA Q59001 METHANOCOCCUS JANNASCHII 2190 -11540852 174609 udpglucose--starch bacterial glycogen glucosyltransferase:glycogen synthase (db:pir2.dat) (mp:rev1581546-1579981) E64500 E64500 Methanococcus jannaschii 2190 -11540852 248039 mj1606 glycogen synthase glga (db:genpept-bct1) (de:methanococcus jannaschii section 142 of 150 of the complete genome.) (nt:similar to gb:l24117 sp:p39670 pid:400330 percent) (le:9574) (re:11139) (di:complement) U67600 U67600 g1592336 Methanococcus jannaschii 2190 -11540852 5000698082 (de:(mj1606) (pn:glycogen synthase) (gtcfc:7.2) (ec:2.4.1.11) (keggfc:7.1) (tigrfc:5.5) (db:gtc-methanococcus jannaschii)) MJ1606 MJ1606 Methanococcus jannaschii 2190 10092506

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928568	20294	42450	270	89

Description

6500736995 cga:glucoamylase (gtcfc:7.2) (ec:3.2.1.3) (keggfc:7.1) (tigrfc:5.3) (db:gtc-methanococcus jannaschii) MJ1610 MJ1610 Methanococcus jannaschii 2190 -11540853 173138 glucoamylase (ec:3.2.1.-) (db:pir2.dat) (mp:for1584527-1586374) A64501 A64501 Methanococcus jannaschii 2190 -11540853 248043 mj1610 glucoamylase cga (db:genpept-bct1) (de:methanococcus jannaschii section 143 of 150 of the complete genome.) (nt:similar to sp:p29761 pid:216417 percent identity:) (le:2922) (re:4769) (di:direct) U67601 U67601 g1592211 Methanococcus jannaschii 2190 -11540853 5000698083 (de:(mj1610) (pn:glucoamylase) (gtcfc:7.2) (ec:3.2.1.3) (keggfc:7.1) (tigrfc:5.2) (db:gtc-methanococcus jannaschii)) MJ1610 MJ1610 Methanococcus jannaschii 2190 10091523

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928586	20295	42451	1236	411

Description

6500736996 alpha-amylase:amya:putative alpha-amylase (gtcfc:7.2) (ec:3.2.1.1) (keggfc:7.1) (tigrfc:5.3) (db:gtc-methanococcus jannaschii) MJ1611 MJ1611 Methanococcus jannaschii 2190 -11540854 1500685853 mj1611 (ec:3.2.1.1) (de:putative alpha-amylase,) (db:swissprot) AMY_METJA Q59006 METHANOCOCCUS JANNASCHII 2190 -11540854 172951 alpha-amylase (ec:3.2.1.1) (db:pir2.dat) (mp:for1586396-1587799) B64501 B64501 Methanococcus jannaschii 2190 -11540854 248044 mj1611 alpha-amylase amya (db:genpept-bct1) (de:methanococcus jannaschii section 143 of 150 of the complete genome.) (nt:similar to gb:l22346 sp:p49067 pid:347940 percent) (le:4791) (re:6194) (di:direct) U67601 U67601 g1592212 Methanococcus jannaschii 2190 -11540854 5000698084 (de:(mj1611) (pn:alpha-amylase) (gtcfc:7.2) (ec:3.2.1.1) (keggfc:7.1) (tigrfc:5.2) (db:gtc-methanococcus jannaschii)) MJ1611 MJ1611 Methanococcus jannaschii 2190 10059290

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928589	20296	42452	558	185

Description

5000698085 glycogen phosphorylase:glgp:m (gtcfc:7.2) (keggfc:14.2) (tigrfc:5.6) (db:gtc-methanococcus jannaschii) MJ1631 MJ1631 Methanococcus jannaschii 2190 -11540855 174194 hypothetical protein mj1631 (db:pir2.dat) (mp:for1611185-1612744) E64503 E64503 Methanococcus jannaschii 2190 -11540855 248063 mj1631 glycogen phosphorylase glgp (db:genpept-bct1) (de:methanococcus jannaschii section 145 of 150 of the complete genome.) (nt:similar to gb:z25795 sp:p39123 pid:397492) (le:6477) (re:8036) (di:direct) U67603 U67603 g1500530 Methanococcus jannaschii 2190 -11540855 6500736997 glycogen phosphorylase:glgp:m (gtcfc:7.2) (keggfc:14.2) (tigrfc:5.6) (db:gtc-methanococcus jannaschii) MJ1631 MJ1631 Methanococcus jannaschii 2190 -11540855

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928590	20297	42453	1548	515

Description

6500736998 hemc:mj0569 porphobilinogen deaminase:probable porphobilinogen deaminase:pbg:hydroxymethylbilane synthase:hmbs:pre-uroporphyrinogen synthase (gtcfc:9.10) (ec:4.3.1.8) (keggfc:9.10) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0569 MJ0569 Methanococcus jannaschii 2190 -11540856 118538 hemc:mj0569 (ec:4.3.1.8) (de:(hydroxymethylbilane synthase) (hmbs) (pre-uroporphyrinogen synthase)) (db:swissprot) HEM3_METJA Q57989 METHANOCOCCUS JANNASCHII 2190 -11540856 173195 hydroxymethylbilane synthase::porphobilinogen deaminase (cl:hydroxymethylbilane synthase) (ec:4.3.1.8) (db:pir2.dat) (mp:rev506101-505223) A64371 A64371 Methanococcus jannaschii 2190 -11540856 247003 mj0569 porphobilinogen deaminase hemc (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to gb:m57676 sp:p16616 pid:143037) (le:452) (re:1330) (di:complement) U67506 U67506 g1591276 Methanococcus jannaschii 2190 -11540856 5000698086 (de:(mj0569) (pn:probable porphobilinogen deaminase:pbg:hydroxymethylbilane synthase:hmbs:pre-uroporphyrinogen synthase:porphobilinogen deaminase) (gn:hemc) (gtcfc:9.10) (ec:4.3.1.8) (hem3_metja) (keggfc:9.10) (tigrfc:2.1) (db:g) MJ0569 MJ0569 Methanococcus jannaschii 2190 10060759

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928594	20298	42454	672	223

Description

6500736999 heml:mj0603 glutamate-1-semialdehyde aminotransferase:glutamate-1-semialdehyde 2:1-aminomutase:gsa:glutamate-1-semialdehyde aminotransferase:gsa-at (gtcfc:9.10) (keggfc:9.10) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0603 MJ0603 Methanococcus jannaschii 2190 -11540857 117451 heml:mj0603 (ec:5.4.3.8) (de:(glutamate-1-semialdehyde aminotransferase) (gsa-at)) (db:swissprot) GSA_METJA Q58020 METHANOCOCCUS JANNASCHII 2190 -11540857 173145 glutamate-1-semialdehyde 2:1-aminomutase::glutamate-1-semialdehyde aminotransferase (ec:5.4.3.8) (db:pir2.dat) (mp:rev535131-533794) C64375 C64375 Methanococcus jannaschii 2190 -11540857 247037 mj0603 glutamate-1-semialdehyde aminotransferase (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to gb:m57676 sp:p30949 pid:143040) (le:8247) (re:9584) (di:complement) U67508 U67508 g1591312 Methanococcus jannaschii 2190 -11540857 5000698087 (de:(mj0603) (pn:glutamate-1-semialdehyde 2,1-aminomutase:gsa:glutamate-1- semialdehyde aminotransferase:gsa-at:glutamate-1-semialdehyde aminotransferase) (gn:heml) (gtcfc:9.10) (ec:5.4.3.8) (gsa_metja) (keggfc:9.10) (tigrfc:2.1) MJ0603 MJ0603 Methanococcus jannaschii 2190 10059257

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928632	20299	42455	645	214

Description

6500737000 hemb:mj0643 delta-aminolevulinic acid dehydratase:porphobilinogen synthase:alad:aladh (gtcfc:9.10) (ec:4.2.1.24) (keggfc:9.10) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0643 MJ0643 Methanococcus jannaschii 2190 -11540858 118533 hemb:mj0643 (ec:4.2.1.24) (de:synthase) (alad) (aladh)) (db:swissprot) HEM2_METJA Q60178 METHANOCOCCUS JANNASCHII 2190 -11540858 174434 porphobilinogen synthase (cl:porphobilinogen synthase) (ec:4.2.1.24) (db:pir2.dat) (mp:for572449-573456) C64380 C64380 Methanococcus jannaschii 2190 -11540858 247077 mj0643 porphobilinogen synthase hemb (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:similar to gb:m90083 sp:q02250 pid:149788 percent) (le:2519) (re:3526) (di:direct) U67512 U67512 g1591355 Methanococcus jannaschii 2190 -11540858 5000698088 (de:(mj0643) (pn:delta-aminolevulinic acid dehydratase:alad:aladh:porphobilinogen synthase) (gn:hemb) (gtcfc:9.10) (ec:4.2.1.24) (hem2_metja) (keggfc:9.10) (tigrfc:2.4) (db:gtc-methanococcus jannaschii)) MJ0643 MJ0643 Methanococcus jannaschii 2190 10060753

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928642	20300	42456	222	73

Description

6500737001 coba:uroporphyrin-iii c-methyltransferase (gtcfc:9.10) (ec:2.1.1.107) (keggfc:9.10) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0965 MJ0965 Methanococcus jannaschii 2190 -11540859 174613 uroporphyrin-iii c-methyltransferase (cl:s-adenosyl-l-methionine uroporphyrinogen methyltransferase) (ec:2.1.1.107) (db:pir2.dat) (mp:for899096-899857) E64420 E64420 Methanococcus jannaschii 2190 -11540859 247399 mj0965 uroporphyrin-iii c-methyltransferase coba (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to gb:m62881 sp:p29928 pid:142695 percent) (le:15302) (re:16063) (di:direct) U67539 U67539 g1591629 Methanococcus jannaschii 2190 -11540859 5000698089 (de:(mj0965) (pn:uroporphyrin-iii c-methyltransferase) (gtcfc:9.10) (ec:2.1.1.107) (keggfc:9.10) (tigrfc:2.4) (db:gtc-methanococcus jannaschii)) MJ0965 MJ0965 Methanococcus jannaschii 2190 10092510

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928660	20301	42457	606	201

Description

6500737002 hemd:uroporphyrinogen iii synthase (gtcfc:9.10) (ec:4.2.1.75) (keggfc:9.10) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0994 MJ0994 Methanococcus jannaschii 2190 -11540860 7500883161 hemd:mj0994 (ec:4.2.1.75) (de:(cyclizing))) (db:swissprot) HEM4_METJA Q58401 METHANOCOCCUS JANNASCHII 2190 -11540860 174614 uroporphyrinogen-iii synthase (ec:4.2.1.75) (db:pir2.dat) (mp:rev923638-922916) B64424 B64424 Methanococcus jannaschii 2190 -11540860 7500883163 mj0994 uroporphyrinogen iii synthase hemd (db:genpept-bct1) (de:methanococcus jannaschii section 84 of 150 of the complete genome.) (nt:similar to gb:m57676 sp:p21248 pid:143038) (le:1450) (re:2172) (di:complement) U67542 U67542 g1591657 Methanococcus jannaschii 2190 -11540860 247428 mju67542 (le:922916) (re:923638) (di:direct) (de:or:methanococcus jannaschii pn:uroporphyrinogen iii synthase gn:mj0994 le:1450 re:2172 di:complement nt:similar to p21248 percent identity: 28.4;) U67542 U67542 g1591657 Methanococcus jannaschii 2190 -11540860 5000698090 (de:(mj0994) (pn:uroporphyrinogen iii synthase) (gtcfc:9.10) (ec:4.2.1.75) (keggfc:9.10) (tigrfc:2.4) (db:gtc-methanococcus jannaschii)) MJ0994 MJ0994 Methanococcus jannaschii 2190 10092511

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928677	20302	42458	837	278

Description

5000698091 cobalamin biosynthesis protein:cbid:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0022 MJ0022 Methanococcus jannaschii 2190 -11540861 118731 mj0022 (de:hypothetical protein mj0022) (db:swissprot) Y022_METJA Q60342 METHANOCOCCUS JANNASCHII 2190 -11540861 173019 cobalamin biosynthesis protein d homolog (cl:methanobacterium cobalamin biosynthesis protein d) (db:pir2.dat) (mp:for24003-25091) F64302 F64302 Methanococcus jannaschii 2190 -11540861 246456 mj0022 cobalamin biosynthesis protein cbid (db:genpept-bct1) (de:methanococcus jannaschii section 3 of 150 of the complete genome.) (nt:similar to gb:l12006 sp:q05628 gb:x52093 pid:154423) (le:1447) (re:2535) (di:direct) U67461 U67461 g1592256 Methanococcus jannaschii 2190 -11540861 6500737003 cobalamin biosynthesis protein:cbid:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0022 MJ0022 Methanococcus jannaschii 2190 -11540861

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928685	20303	42459	417	138

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928715	20304	42460	444	147

Description

GTC ORF with score 100 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome i cosmid c17a5.) (nt:spac17a5.16, unknown, len:921aa, similar eg. to c.) (le:37518:37580:37685:37786) (re:37537:37622:37705:38432) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928719	20305	42461	621	206

Description

5000698093 cobyric acid synthase:cbip:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0138 MJ0138 Methanococcus jannaschii 2190 -11540862 118809 mj0138 (de:hypothetical protein mj0138) (db:swissprot) Y138_METJA Q57602 METHANOCOCCUS JANNASCHII 2190 -11540862 173359 hypothetical protein mj0138 (cl:hypothetical protein mj0138) (db:pir2.dat) (mp:rev136566-135118) B64317 B64317 Methanococcus jannaschii 2190 -11540862 246572 mj0138 cobyric acid synthase cbip (db:genpept-bct1) (de:methanococcus jannaschii section 13 of 150 of the complete genome.) (nt:similar to gb:m62866 sp:p29932 pid:151151 percent) (le:1122) (re:2570) (di:complement) U67471 U67471 g1498907 Methanococcus jannaschii 2190 -11540862 6500737004 cobyric acid synthase:cbip:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0138 MJ0138 Methanococcus jannaschii 2190 -11540862

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928727	20306	42462	762	253

Description

GTC ORF with score 284 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome i cosmid c17a5.) (nt:spac17a5.16, unknown, len:921aa, similar eg. to c.) (le:37518:37580:37685:37786) (re:37537:37622:37705:38432) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928731	20307	42463	1485	495

Description

6500737005 cobalamin biosynthesis precorrin-8w decarboxylase:cbit:precorrin-8w decarboxylase (gtcfc:9.10) (ec:1.-.-.-) (keggfc:14.1) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0391 MJ0391 Methanococcus jannaschii 2190 -11540863 4000708263 mj0391 (de:hypothetical protein mj0391) (db:swissprot) Y391_METJA Q57836 METHANOCOCCUS JANNASCHII 2190 -11540863 174441 precorrin-8w decarboxylase homolog (db:pir2.dat) (mp:rev355707-355156) G64348 G64348 Methanococcus jannaschii 2190 -11540863 246825 mj0391 cobalamin biosynthesis precorrin-8w (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:similar to gb:l12006 sp:q05632 pid:154425 percent) (le:9615) (re:10166) (di:complement) U67491 U67491 g1591095 Methanococcus jannaschii 2190 -11540863 5000697834 (de:(mj0391) (pn:precorrin-8w decarboxylase) (gtcfc:1.7:1.8:5.10:5.12:5.13:9.12:9.3) (ec:4.1.1.-) (keggfc:1.7:1.8:5.10:5.12:5.13:9.3:9.13) (tigrfc:2.4) (db:gtc-methanococcus jannaschii)) MJ0391 MJ0391 Methanococcus jannaschii 2190 10092448

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928738	20308	42464	192	63

Description

GTC ORF with score 90 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome i cosmid c17a5.) (nt:spac17a5.16, unknown, len:921aa, similar eg. to c.) (le:37518:37580:37685:37786) (re:37537:37622:37705:38432) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928739	20309	42465	801	266

Description

GTC ORF with score 186 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid k02e10.) (nt:coded for by c. elegans cdna yk32f11.5; coded for) (le:12089:12370:12607:12840) (re:12157:12558:12792:13008) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928740	20310	42466	318	105

Description

GTC ORF with score 174 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome i cosmid c17a5.) (nt:spac17a5.16, unknown, len:921aa, similar eg. to c.) (le:37518:37580:37685:37786) (re:37537:37622:37705:38432) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928774	20311	42467	777	258

Description

5000698094 cobyric acid synthase:cbip:probable cobyric acid synthase (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0484 MJ0484 Methanococcus jannaschii 2190 -11540864 4000709527 cobq:mj0484 (de:probable cobyric acid synthase) (db:swissprot) COBQ_METJA Q57908 METHANOCOCCUS JANNASCHII 2190 -11540864 173026 cobyric acid synthase homolog (cl:probable cobyric acid synthase) (db:pir2.dat) (mp:for425555-427042) D64360 D64360 Methanococcus jannaschii 2190 -11540864 246918 mj0484 cobyric acid synthase cbip (db:genpept-bct1) (de:methanococcus jannaschii section 40 of 150 of the complete genome.) (nt:similar to sp:p21157 gb:x53509 pid:44713 percent) (le:5367) (re:6854) (di:direct) U67498 U67498 g1591187 Methanococcus jannaschii 2190 -11540864 6500737006 cobyric acid synthase:cbip:probable cobyric acid synthase (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0484 MJ0484 Methanococcus jannaschii 2190 -11540864

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928777	20312	42468	243	80

Description

GTC ORF with score 166 to: (sr:thale cress) (db:genpept-pln2) (de:arabidopsis thaliana bac t7i23, complete sequence.) (nt:similar to yeast general negative regulator of) (le:23723:23994:24373:24660) (re:23793:24174:24577:24888) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928786	20313	42469	330	109

Description

5000698117 bacteriochlorophyll synthase 43 kda subunit:chlp:hypothetical protein mj0532 precursor (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0532 MJ0532 Methanococcus jannaschii 2190 -11540865 4000707735 mj0532 (de:hypothetical protein mj0532 precursor) (db:swissprot) Y532_METJA Q57952 METHANOCOCCUS JANNASCHII 2190 -11540865 173229 hypothetical protein homolog mj0532 (cl:hypothetical protein mj0532) (db:pir2.dat) (mp:rev468785-467610) D64366 D64366 Methanococcus jannaschii 2190 -11540865 246966 mj0532 bacteriochlorophyll synthase 43 kda subunit (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to sp:p26172 pid:46117 percent identity:) (le:6184) (re:7359) (di:complement) U67502 U67502 g1591235 Methanococcus jannaschii 2190 -11540865 6500737007 bacteriochlorophyll synthase 43 kda subunit:chlp:hypothetical protein mj0532 precursor (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0532 MJ0532 Methanococcus jannaschii 2190 -11540865

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928787	20314	42470	4920	1639

Description

5000698095 cobalamin biosynthesis protein:cbij:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0552 MJ0552 Methanococcus jannaschii 2190 -11540866 4000708340 mj0552 (de:hypothetical protein mj0552) (db:swissprot) Y552_METJA Q57972 METHANOCOCCUS JANNASCHII 2190 -11540866 173017 cobalamin biosynthesis j protein homolog (cl:cobalamin biosynthesis j protein homolog) (db:pir2.dat) (mp:rev488692-487943) H64368 H64368 Methanococcus jannaschii 2190 -11540866 246986 mj0552 cobalamin biosynthesis protein cbij (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:similar to gb:l12006 sp:q05591 pid:154429 percent) (le:6118) (re:6867) (di:complement) U67504 U67504 g1591257 Methanococcus jannaschii 2190 -11540866 6500737008 cobalamin biosynthesis protein:cbij:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0552 MJ0552 Methanococcus jannaschii 2190 -11540866

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928794	20315	42471	249	82

Description

5000698096 cobalamin biosynthesis protein:cobn:cobalamin biosynthesis protein n (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0908 MJ0908 Methanococcus jannaschii 2190 -11540867 173022 cobalamin biosynthesis protein n homolog (cl:rhodobacter capsulatus magnesium-protoporphyrin o-methyltransferase) (db:pir2.dat) (mp:for837021-840719) D64413 D64413 Methanococcus jannaschii 2190 -11540867 247342 mj0908 cobalamin biosynthesis protein cobn (db:genpept-bct1) (de:methanococcus jannaschii section 76 of 150 of the complete genome.) (nt:similar to gb:m62866 sp:p29929 pid:151154 percent) (le:3110) (re:6808) (di:direct) U67534 U67534 g1591582 Methanococcus jannaschii 2190 -11540867 6500737009 cobalamin biosynthesis protein:cobn:cobalamin biosynthesis protein n (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0908 MJ0908 Methanococcus jannaschii 2190 -11540867

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928801	20316	42472	294	97

Description

5000698985 protoporphyrinogen oxidase:hemk:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0928 MJ0928 Methanococcus jannaschii 2190 -11540868 7500895698 mj0928 (de:hypothetical protein mj0928) (db:swissprot) Y928_METJA Q58338 METHANOCOCCUS JANNASCHII 2190 -11540868 174284 hypothetical protein ydr140w homolog (cl:hypothetical protein ydr140w) (db:pir2.dat) (mp:rev857996-857403) H64415 H64415 Methanococcus jannaschii 2190 -11540868 7500895700 mj0928 protoporphyrinogen oxidase hemk (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:similar to gb:142023 sp:p45253 pid:1007773) (le:4154) (re:4747) (di:complement) U67536 U67536 g1591599 Methanococcus jannaschii 2190 -11540868 6500737010 protoporphyrinogen oxidase:hemk:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0928 MJ0928 Methanococcus jannaschii 2190 -11540868 247362 mju67536 (le:857403) (re:857996) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein (s51868) gn:mj0928 le:4154 re:4747 di:complement nt:similar to s51868 percent identity: 38.8;) U67536 U67536 g1591599 Methanococcus jannaschii 2190 -11540868

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928803	20317	42473	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928827	20318	42474	363	120

Description

6500737011 cobalamin biosynthesis precorrin isomerase:cbic:precorrin isomerase (gtcfc:9.10) (ec:5.-.-.-) (keggfc:14.1) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ0930 MJ0930 Methanococcus jannaschii 2190 -11540869 7500879012 cobh:mj0930 (ec:5.4.1.2) (de:probable precorrin-8x methylmutase, (precorrin isomerase)) (db:swissprot) COBH_METJA Q58340 METHANOCOCCUS JANNASCHII 2190 -11540869 174436 probable precorrin isomerase (cl:methanobacterium thermoautotrophicum precorrin isomerase) (db:pir2.dat) (mp:for860304-860936) B64416 B64416 Methanococcus jannaschii 2190 -11540869 7500879014 mj0930 cobalamin biosynthesis precorrin isomerase (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:similar to gb:l12006 sp:q05601 pid:154422 percent) (le:7055) (re:7687) (di:direct) U67536 U67536 g1591601 Methanococcus jannaschii 2190 -11540869 247364 mju67536 (le:860304) (re:860936) (di:direct) (de:or:methanococcus jannaschii pn:precorrin isomerase gn:mj0930 le:7055 re:7687 di:direct nt:similar to q05601 percent identity: 38.7;) U67536 U67536 g1591601 Methanococcus jannaschii 2190 -11540869 5000698097 (de:(mj0930) (pn:precorrin isomerase) (gtcfc:9.10:9.7) (ec:5.-.-.-) (keggfc:11.1) (tigrfc:2.4) (db:gtc-methanococcus jannaschii)) MJ0930 MJ0930 Methanococcus jannaschii 2190 10092443

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928828	20319	42475	1938	645

Description

5000698391 cobalt transport atp-binding protein:cbio:cobalt transport atp-binding protein o (gtcfc:9.10:12.6) (keggfc:11.1) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1088 MJ1088 Methanococcus jannaschii 2190 -11540870 173023 cobalt transport atp-binding protein o homolog (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:rev1027976-1027137) G64435 G64435 Methanococcus jannaschii 2190 -11540870 247521 mj1088 cobalt transport atp-binding protein cbio (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:similar to gp:1419078 percent identity: 64.26;) (le:6565) (re:7404) (di:complement) U67551 U67551 g1591732 Methanococcus jannaschii 2190 -11540870 6500737012 cobalt transport atp-binding protein:cbio:cobalt transport atp-binding protein o (gtcfc:9.10:12.6) (keggfc:11.1) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1088 MJ1088 Methanococcus jannaschii 2190 -11540870

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928838	20320	42476	393	130

Description

5000698392 cobalt transport protein:cbiq:cobalt transport protein q (gtcfc:9.10:12.6) (keggfc:11.1) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1089 MJ1089 Methanococcus jannaschii 2190 -11540871 173025 cobalt transport protein q homolog (cl:cobalt transport protein q homolog) (db:pir2.dat) (mp:rev1028792-1027986) H64435 H64435 Methanococcus jannaschii 2190 -11540871 247522 mj1089 cobalt transport protein cbiq (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:similar to gp:1419077 percent identity: 42.68;) (le:7414) (re:8220) (di:complement) U67551 U67551 g1591733 Methanococcus jannaschii 2190 -11540871 6500737013 cobalt transport protein:cbiq:cobalt transport protein q (gtcfc:9.10:12.6) (keggfc:11.1) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1089 MJ1089 Methanococcus jannaschii 2190 -11540871

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928842	20321	42477	459	153

Description

5000698393 cobalt transport protein:cbin:cobalt transport protein n (gtcfc:9.10:12.6) (keggfc:11.1) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1090 MJ1090 Methanococcus jannaschii 2190 -11540872 173024 cobalt transport protein n (cl:cobalt transport protein n) (db:pir2.dat) (mp:rev1029120-1028833) A64436 A64436 Methanococcus jannaschii 2190 -11540872 247523 mj1090 cobalt transport protein cbin (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:similar to gp:1419076 percent identity: 63.04;) (le:8261) (re:8548) (di:complement) U67551 U67551 g1591734 Methanococcus jannaschii 2190 -11540872 6500737014 cobalt transport protein:cbin:cobalt transport protein n (gtcfc:9.10:12.6) (keggfc:11.1) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1090 MJ1090 Methanococcus jannaschii 2190 -11540872

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928853	20322	42478	906	301

Description

5000698098 cobalamin biosynthesis protein:cbim:cobalamin biosynthesis protein m (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1091 MJ1091 Methanococcus jannaschii 2190 -11540873 173021 cobalamin biosynthesis protein m homolog (db:pir2.dat) (mp:rev1029822-1029121) B64436 B64436 Methanococcus jannaschii 2190 -11540873 247524 mj1091 cobalamin biosynthesis protein cbim (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:similar to gp:1419075 percent identity: 61.03;) (le:8549) (re:9250) (di:complement) U67551 U67551 g1591735 Methanococcus jannaschii 2190 -11540873 6500737015 cobalamin biosynthesis protein:cbim:cobalamin biosynthesis protein m (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1091 MJ1091 Methanococcus jannaschii 2190 -11540873

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928856	20323	42479	1185	394

Description

5000698099 cobalamin biosynthesis protein:cbig:m (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1144 MJ1144 Methanococcus jannaschii 2190 -11540874 173906 hypothetical protein mj1144 (db:pir2.dat) (mp:rev1084577-1083606) G64442 G64442 Methanococcus jannaschii 2190 -11540874 247577 mj1144 cobalamin biosynthesis protein cbig (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gb:l12006 sp:q05631 gb:x52093 pid:154427) (le:11578) (re:12549) (di:complement) U67556 U67556 g1591776 Methanococcus jannaschii 2190 -11540874 6500737016 cobalamin biosynthesis protein:cbig:m (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1144 MJ1144 Methanococcus jannaschii 2190 -11540874

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928857	20324	42480	192	63

Description

5000698100 cobalamin biosynthesis protein b:cbib:cobalamin biosynthesis protein d (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1314 MJ1314 Methanococcus jannaschii 2190 -11540875 173018 cobalamin biosynthesis protein d homolog (cl:cobalamin biosynthesis protein d) (db:pir2.dat) (mp:for1259601-1260524) A64464 A64464 Methanococcus jannaschii 2190 -11540875 247747 mj1314 cobalamin biosynthesis protein b cbib (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gb:m59236 sp:p21634 pid:151149) (le:10838) (re:11761) (di:direct) U67571 U67571 g1591953 Methanococcus jannaschii 2190 -11540875 6500737017 cobalamin biosynthesis protein b:cbib:cobalamin biosynthesis protein d (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1314 MJ1314 Methanococcus jannaschii 2190 -11540875

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928858	20325	42481	183	60

Description

5000698101 cbia:cobyrinic acid a:c-diamide synthase (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1421 MJ1421 Methanococcus jannaschii 2190 -11540876 173027 cobyrinic acid a:c-diamide synthase homolog (cl:cobyrinic acid a,c-diamide synthase) (db:pir2.dat) (mp:rev1387339-1386008) D64477 D64477 Methanococcus jannaschii 2190 -11540876 247854 mj1421 cobyrinic acid a:c-diamide synthase cbia (db:genpept-bct1) (de:methanococcus jannaschii section 125 of 150 of the complete genome.) (nt:similar to gb:l12006 sp:p29946 gb:x63012 pid:154420) (le:104) (re:1435) (di:complement) U67583 U67583 g1592071 Methanococcus jannaschii 2190 -11540876 6500737018 cbia:cobyrinic acid a:c-diamide synthase (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1421 MJ1421 Methanococcus jannaschii 2190 -11540876

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928861	20326	42482	297	98

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928863	20327	42483	471	156

Description

5000698102 cobs:cobalamin:5-phosphate synthase (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1438 MJ1438 Methanococcus jannaschii 2190 -11540877 173016 cobalamin 5-phosphate synthase (db:pir2.dat) (mp:for1405757-1406533) E64479 E64479 Methanococcus jannaschii 2190 -11540877 247871 mj1438 cobalamin 5-phosphate synthase cobs (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:similar to pid:1208439 percent identity: 33.48;) (le:9179) (re:9955) (di:direct) U67584 U67584 g1592086 Methanococcus jannaschii 2190 -11540877 6500737019 cobs:cobalamin:5-phosphate synthase (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1438 MJ1438 Methanococcus jannaschii 2190 -11540877

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928868	20328	42484	894	297

Description

5000698103 bacteriochlorophyll synthase 43 kda subunit:chlp:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1520 MJ1520 Methanococcus jannaschii 2190 -11540878 4000707736 mj1520 (de:hypothetical protein mj1520) (db:swissprot) YF20_METJA Q58915 METHANOCOCCUS JANNASCHII 2190 -11540878 174128 hypothetical protein mj1520 (db:pir2.dat) (mp:rev1498818-1497655) G64489 G64489 Methanococcus jannaschii 2190 -11540878 247953 mj1520 bacteriochlorophyll synthase 43 kda subunit (db:genpept-bct1) (de:methanococcus jannaschii section 135 of 150 of the complete genome.) (nt:similar to sp:p26172 pid:46117 percent identity:) (le:5698) (re:6861) (di:complement) U67593 U67593 g1592151 Methanococcus jannaschii 2190 -11540878 6500737020 bacteriochlorophyll synthase 43 kda subunit:chlp:hypothetical protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1520 MJ1520 Methanococcus jannaschii 2190 -11540878

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928881	20329	42485	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928883	20330	42486	273	90

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928884	20331	42487	291	96

Description

5000698104 cobalamin biosynthesis protein:cbim:cobalamin biosynthesis protein m (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1569 MJ1569 Methanococcus jannaschii 2190 -11540879 173020 cobalamin biosynthesis protein m (cl:cobalamin biosynthesis protein m) (db:pir2.dat) (mp:for1544973-1545641) H64495 H64495 Methanococcus jannaschii 2190 -11540879 248002 mj1569 cobalamin biosynthesis protein cbim (db:genpept-bct1) (de:methanococcus jannaschii section 139 of 150 of the complete genome.) (nt:similar to gb:l12006 sp:q05594 gb:x52093 pid:154432) (le:5004) (re:5672) (di:direct) U67597 U67597 g1592191 Methanococcus jannaschii 2190 -11540879 6500737021 cobalamin biosynthesis protein:cbim:cobalamin biosynthesis protein m (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1569 MJ1569 Methanococcus jannaschii 2190 -11540879

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928885	20332	42488	246	81

Description

5000698401 cobalt transport protein:cbiq:m (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1571 MJ1571 Methanococcus jannaschii 2190 -11540880 174159 hypothetical protein mj1571 (db:pir2.dat) (mp:for1546112-1546990) B64496 B64496 Methanococcus jannaschii 2190 -11540880 248004 mj1571 cobalt transport protein cbiq (db:genpept-bct1) (de:methanococcus jannaschii section 139 of 150 of the complete genome.) (nt:similar to gp:1419077 percent identity: 27.87;) (le:6143) (re:7021) (di:direct) U67597 U67597 g1592192 Methanococcus jannaschii 2190 -11540880 6500737022 cobalt transport protein:cbiq:m (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1571 MJ1571 Methanococcus jannaschii 2190 -11540880

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928894	20333	42489	1110	369

Description

5000698412 cobalt transport atp-binding protein:cbio:abc transporter atp-binding protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1572 MJ1572 Methanococcus jannaschii 2190 -11540881 172925 abc transporter atp-binding protein (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:for1546987-1547823) C64496 C64496 Methanococcus jannaschii 2190 -11540881 248005 mj1572 cobalt transport atp-binding protein cbio (db:genpept-bct1) (de:methanococcus jannaschii section 139 of 150 of the complete genome.) (nt:similar to gp:1419078 percent identity: 40.98;) (le:7018) (re:7854) (di:direct) U67597 U67597 g1592193 Methanococcus jannaschii 2190 -11540881 6500737023 cobalt transport atp-binding protein:cbio:abc transporter atp-binding protein (gtcfc:9.10) (keggfc:14.2) (tigrfc:2.3) (db:gtc-methanococcus jannaschii) MJ1572 MJ1572 Methanococcus jannaschii 2190 -11540881

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928897	20334	42490	693	230

Description

6500737024 thiamine monphosphate kinase:thil:thiamine monophosphate kinase (gtcfc:9.1) (ec:2.7.4.16) (keggfc:9.1) (tigrfc:2.9) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-thiamine metabolism (vitamin b1)) MJ0028 MJ0028 Methanococcus jannaschii 2190 -11540882 118736 mj0028 (de:hypothetical protein mj0028) (db:swissprot) Y028_METJA Q60337 METHANOCOCCUS JANNASCHII 2190 -11540882 173201 hypothetical protein hi1305 homolog (db:pir2.dat) (mp:rev29473-28514) D64303 D64303 Methanococcus jannaschii 2190 -11540882 246462 mj0028 thiamine monphosphate kinase thil (db:genpept-bct1) (de:methanococcus jannaschii section 3 of 150 of the complete genome.) (nt:similar to gp:1698893 percent identity: 28.24;) (le:5958) (re:6917) (di:complement) U67461 U67461 g1590830 Methanococcus jannaschii 2190 -11540882 5000698482 (de:(mj0028) (pn:hypothetical protein mj0028:hypothetical protein hi1305) (gtcfc:13.7:14.1) (ec:) (y028_metja) (keggfc:11.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii)) MJ0028 MJ0028 Methanococcus jannaschii 2190 10061098

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928905	20335	42491	714	237

Description

GTC ORF with score 191 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid k06a9.) (nt:partial cds; coded for by c. elegans cdna yk50c7.5) (le:27212:27374:27536:27666) (re:27323:27486:27619:27751) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928911	20336	42492	480	160

Description

6500737025 thic:thiamine biosynthesis protein (gtcfc:9.1) (ec:2.5.1.3) (keggfc:9.1) (tigrfc:2.9) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-thiamine metabolism (vitamin b1)) MJ1026 MJ1026 Methanococcus jannaschii 2190 -11540883 7500893049 thic:mj1026 (de:probable thiamin biosynthesis protein thic) (db:swissprot) THIC_METJA Q58432 METHANOCOCCUS JANNASCHII 2190 -11540883 174561 thiamine biosynthesis protein (cl:thiamine biosynthesis protein) (db:pir2.dat) (mp:rev958236-956920) A64428 A64428 Methanococcus jannaschii 2190 -11540883 7500893051 mj1026 thiamine biosynthesis protein thic (db:genpept-bct1) (de:methanococcus jannaschii section 87 of 150 of the complete genome.) (nt:similar to sp:p45740 pid:860678 pid:1673401) (le:5095) (re:6411) (di:complement) U67545 U67545 g1591682 Methanococcus jannaschii 2190 -11540883 247459 mju67545 (le:956920) (re:958236) (di:direct) (de:or:methanococcus jannaschii pn:thiamine biosynthesis protein gn:mj1026 le:5095 re:6411 di:complement nt:similar to p45740 percent identity: 45.1;) U67545 U67545 g1591682 Methanococcus jannaschii 2190 -11540883 5000698106 (de:(mj1026) (pn:thiamine biosynthesis protein) (gtcfc:9.1) (ec:) (keggfc:11.2) (tigrfc:2.10) (db:gtc-methanococcus jannaschii)) MJ1026 MJ1026 Methanococcus jannaschii 2190 10092485

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928913	20337	42493	444	147

Description

5000698105 thiamine biosynthetic enzyme:thi1:putative thiazole biosynthetic enzyme (gtcfc:9.1) (keggfc:14.2) (tigrfc:2.9) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-thiamine metabolism (vitamin b1)) MJ0601 MJ0601 Methanococcus jannaschii 2190 -11540884 4000709852 mj0601 (de:putative thiazole biosynthetic enzyme) (db:swissprot) THI4_METJA Q58018 METHANOCOCCUS JANNASCHII 2190 -11540884 174562 thiamine biosynthetic enzyme homolog (cl:thiamine biosynthetic enzyme thi1) (db:pir2.dat) (mp:for532163-532966) A64375 A64375 Methanococcus jannaschii 2190 -11540884 247035 mj0601 thiamine biosynthetic enzyme thi1 (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to gb:u17589 sp:q38814 pid:1113783 percent) (le:6616) (re:7419) (di:direct) U67508 U67508 g1591310 Methanococcus jannaschii 2190 -11540884 6500737026 thiamine biosynthetic enzyme:thi1:putative thiazole biosynthetic enzyme (gtcfc:9.1) (keggfc:14.2) (tigrfc:2.9) (db:gtc-methanococcus jannaschii) MJ0601 MJ0601 Methanococcus jannaschii 2190 -11540884

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928925	20338	42494	450	149

Description

5000698107 molybdenum cofactor biosynthesis protein:moab:molybdenum cofactor biosynthesis moab protein (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0167 MJ0167 Methanococcus jannaschii 2190 -11540885 174347 molybdenum cofactor biosynthesis protein moab homolog (cl:molybdenum cofactor biosynthesis protein b moab) (db:pir2.dat) (mp:rev170687-170196) H64320 H64320 Methanococcus jannaschii 2190 -11540885 246602 mj0167 molybdenum cofactor biosynthesis protein moab (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:similar to gb:x70420 sp:p30746 pid:42009 gb:u00096) (le:12497) (re:12988) (di:complement) U67473 U67473 g1592270 Methanococcus jannaschii 2190 -11540885 6500737027 molybdenum cofactor biosynthesis protein:moab:molybdenum cofactor biosynthesis moab protein (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0167 MJ0167 Methanococcus jannaschii 2190 -11540885

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928929	20339	42495	348	115

Description

5000698108 molybdenum cofactor biosynthesis protein:moea:putative molybdopterin biosynthesis protein (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0666 MJ0666 Methanococcus jannaschii 2190 -11540886 4000708935 mj0666 (de:putative molybdopterin biosynthesis protein mj0666) (db:swissprot) Y666_METJA Q58080 METHANOCOCCUS JANNASCHII 2190 -11540886 174349 molybdenum cofactor biosynthesis protein moea homolog (cl:molybdenum cofactor biosynthesis protein moea-2) (db:pir2.dat) (mp:rev592613-591417) B64383 B64383 Methanococcus jannaschii 2190 -11540886 247100 mj0666 molybdenum cofactor biosynthesis protein moea (db:genpept-bct1) (de:methanococcus jannaschii section 56 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45210 pid:1007555) (le:132) (re:1328) (di:complement) U67514 U67514 g1591380 Methanococcus jannaschii 2190 -11540886 6500737028 molybdenum cofactor biosynthesis protein:moea:putative molybdopterin biosynthesis protein (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0666 MJ0666 Methanococcus jannaschii 2190 -11540886

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928930	20340	42496	831	276

Description

5000698109 molybdopterin converting factor:subunit 2:moae:m (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0717 MJ0717 Methanococcus jannaschii 2190 -11540887 5500686362 mj0717 (de:hypothetical protein mj0717) (db:swissprot) Y717_METJA Q58127 METHANOCOCCUS JANNASCHII 2190 -11540887 173674 hypothetical protein mj0717 (db:pir2.dat) (mp:rev650817-650458) E64389 E64389 Methanococcus jannaschii 2190 -11540887 247151 mj0717 molybdopterin converting factor:subunit 2 (db:genpept-bct1) (de:methanococcus jannaschii section 60 of 150 of the complete genome.) (nt:similar to gb:x70420 sp:p30749 pid:42012 gb:u00096) (le:7200) (re:7559) (di:complement) U67518 U67518 g1499533 Methanococcus jannaschii 2190 -11540887 6500737029 molybdopterin converting factor:subunit 2:moae:m (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0717 MJ0717 Methanococcus jannaschii 2190 -11540887

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928937	20341	42497	1794	597

Description

5000698110 molybdenum cofactor biosynthesis protein:moaa:hypothetical protein (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0824 MJ0824 Methanococcus jannaschii 2190 -11540888 4000708414 moaa:mj0824 (de:putative molybdopterin cofactor synthesis protein a) (db:swissprot) MOAA_METJA Q58234 METHANOCOCCUS JANNASCHII 2190 -11540888 174346 molybdenum cofactor biosynthesis moaa protein (db:pir2.dat) (mp:rev746494-745598) H64402 H64402 Methanococcus jannaschii 2190 -11540888 247258 mj0824 molybdenum cofactor biosynthesis protein moaa (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45311 pid:1008000) (le:3807) (re:4703) (di:complement) U67526 U67526 g1591511 Methanococcus jannaschii 2190 -11540888 6500737030 molybdenum cofactor biosynthesis protein:moaa:hypothetical protein (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0824 MJ0824 Methanococcus jannaschii 2190 -11540888

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928949	20342	42498	375	124

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928960	20343	42499	891	296

Description

5000698111 molybdenum cofactor biosynthesis protein:moea:putative molybdopterin biosynthesis protein (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0886 MJ0886 Methanococcus jannaschii 2190 -11540889 4000708936 mj0886 (de:putative molybdopterin biosynthesis protein mj0886) (db:swissprot) Y886_METJA Q58296 METHANOCOCCUS JANNASCHII 2190 -11540889 174350 molybdenum cofactor biosynthesis protein moea homolog (cl:molybdenum cofactor biosynthesis protein moea-1) (db:pir2.dat) (mp:rev818205-816343) F64410 F64410 Methanococcus jannaschii 2190 -11540889 247320 mj0886 molybdenum cofactor biosynthesis protein moea (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:similar to gb:m21151 sp:p12281 pid:145539 gb:u00096) (le:13340) (re:15202) (di:complement) U67532 U67532 g1591564 Methanococcus jannaschii 2190 -11540889 6500737031 molybdenum cofactor biosynthesis protein:moea:putative molybdopterin biosynthesis protein (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ0886 MJ0886 Methanococcus jannaschii 2190 -11540889

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928978	20344	42500	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501928983	20345	42501	504	167

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929006	20346	42502	261	86

Description

5000698112 molybdenum cofactor biosynthesis protein:moac:probable molybdenum cofactor biosynthesis protein c (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ1135 MJ1135 Methanococcus jannaschii 2190 -11540890 4000708940 mj1135 (de:probable molybdenum cofactor biosynthesis protein c) (db:swissprot) MOAC_METJA Q58535 METHANOCOCCUS JANNASCHII 2190 -11540890 174348 molybdenum cofactor biosynthesis protein c homolog moac (cl:molybdenum cofactor biosynthesis protein c) (db:pir2.dat) (mp:rev1076037-1075579) F64441 F64441 Methanococcus jannaschii 2190 -11540890 247568 mj1135 molybdenum cofactor biosynthesis protein moac (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45310 pid:1007998) (le:3551) (re:4009) (di:complement) U67556 U67556 g1591769 Methanococcus jannaschii 2190 -11540890 6500737032 molybdenum cofactor biosynthesis protein:moac:probable molybdenum cofactor biosynthesis protein c (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ1135 MJ1135 Methanococcus jannaschii 2190 -11540890

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929007	20347	42503	438	145

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929012	20348	42504	255	84

Description

5000698113 mobb:molybdopterin-guanine dinucleotide biosynthesis protein b (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ1324 MJ1324 Methanococcus jannaschii 2190 -11540891 174352 molybdopterin-guanine dinucleotide biosynthesis protein b homolog (db:pir2.dat) (mp:for1274586-1275290) C64465 C64465 Methanococcus jannaschii 2190 -11540891 247757 mj1324 molybdopterin-guanine dinucleotide biosynthesis (db:genpept-bct1) (de:methanococcus jannaschii section 114 of 150 of the complete genome.) (nt:similar to gb:l19201 sp:p32125 pid:304962 gb:u00096) (le:9695) (re:10399) (di:direct) U67572 U67572 g1591964 Methanococcus jannaschii 2190 -11540891 6500737033 mobb:molybdopterin-guanine dinucleotide biosynthesis protein b (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ1324 MJ1324 Methanococcus jannaschii 2190 -11540891

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929013	20349	42505	492	163

Description

5000698114 moba:molybdopterin-guanine dinucleotide biosynthesis protein a (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ1663 MJ1663 Methanococcus jannaschii 2190 -11540892 174351 molybdopterin-guanine dinucleotide biosynthesis protein a homolog (db:pir2.dat) (mp:for1645896-1646510) E64507 E64507 Methanococcus jannaschii 2190 -11540892 248095 mj1663 molybdopterin-guanine dinucleotide biosynthesis (db:genpept-bct1) (de:methanococcus jannaschii section 148 of 150 of the complete genome.) (nt:similar to gb:l19201 sp:p32173 pid:304963 gb:u00096) (le:8934) (re:9548) (di:direct) U67606 U67606 g1592243 Methanococcus jannaschii 2190 -11540892 6500737034 moba:molybdopterin-guanine dinucleotide biosynthesis protein a (gtcfc:9.11) (keggfc:14.2) (tigrfc:2.5) (db:gtc-methanococcus jannaschii) MJ1663 MJ1663 Methanococcus jannaschii 2190 -11540892

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929014	20350	42506	1482	493

Description

6500737035 atp-dependent rna helicase:dead-family:dead:putative atp-dependent rna helicase (gtcfc:9.12:10.7) (ec:2.7.7.-) (keggfc:9.13) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0669 MJ0669 Methanococcus jannaschii 2190 -11540893 121274 mj0669 (de:putative atp-dependent rna helicase mj0669) (db:swissprot) Y669_METJA Q58083 METHANOCOCCUS JANNASCHII 2190 -11540893 173084 translation initiation factor eif-4a homolog:eif-4a family probable atp-dependent rna helicase homolog (cl:translation initiation factor eif-4a:dead/h box helicase homology) (db:pir2.dat) (mp:rev595826-594723) E64383 E64383 Methanococcus jannaschii 2190 -11540893 247103 mj0669 atp-dependent rna helicase:dead-family dead (db:genpept-bct1) (de:methanococcus jannaschii section 56 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44586 pid:1003361) (le:3438) (re:4541) (di:complement) U67514 U67514 g1591383 Methanococcus jannaschii 2190 -11540893 5000698263 (de:(mj0669) (pn:putative atp-dependent rna helicase mj0669:putative atp-dependent rna helicase, eif-4a family) (gtcfc:10.6:13.7) (ec:) (y669_metja) (keggfc:11.2) (tigrfc:12.7) (db:gtc-methanococcus jannaschii)) MJ0669 MJ0669 Methanococcus jannaschii 2190 10064560

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929022	20351	42507	390	129

Description

6500737036 putative ski2-family helicase:dna helicase related protein (gtcfc:9.12:10.7) (ec:2.7.7.-) (keggfc:9.13) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ1124 MJ1124 Methanococcus jannaschii 2190 -11540894 173063 dna repair protein rad24 homolog intein-containing (cl:dead/h box helicase homology) (db:pir2.dat) (mp:for1062443-1066030) C64440 C64440 Methanococcus jannaschii 2190 -11540894 247557 mj1124 putative ski2-family helicase (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to sp:p35207 pid:410320 pid:547574) (le:1253) (re:4840) (di:direct) U67555 U67555 g1499976 Methanococcus jannaschii 2190 -11540894 5000697977 (de:(mj1124) (pn:dna) (gtcfc:4.1) (ec:) (keggfc:11.2) (tigrfc:8.2) (db:gtc-methanococcus jannaschii)) MJ1124 MJ1124 Methanococcus jannaschii 2190 10091479

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929026	20352	42508	486	161

Description

5000698601 4-hydroxybenzoate octaprenyltransferase:ubia:hypothetical protein (gtcfc:9.12) (keggfc:14.2) (tigrfc:2.4) (db:gtc-methanococcus jannaschii) MJ0279 MJ0279 Methanococcus jannaschii 2190 -11540895 500685006 mj0279 (de:hypothetical protein mj0279) (db:swissprot) Y279_METJA Q57727 METHANOCOCCUS JANNASCHII 2190 -11540895 172914 conserved hypothetical protein mj0279 (cl:methanococcus jannaschii conserved hypothetical protein mj0279) (db:pir2.dat) (mp:for265366-266217) H64334 H64334 Methanococcus jannaschii 2190 -11540895 246714 mj0279 4-hydroxybenzoate octaprenyltransferase ubia (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to sp:p26601 gb:m96268 gb:x57434 gb:x66619) (le:3793) (re:4644) (di:direct) U67483 U67483 g1591005 Methanococcus jannaschii 2190 -11540895 6500737037 4-hydroxybenzoate octaprenyltransferase:ubia:hypothetical protein (gtcfc:9.12) (keggfc:14.2) (tigrfc:2.4) (db:gtc-methanococcus jannaschii) MJ0279 MJ0279 Methanococcus jannaschii 2190 -11540895

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929039	20353	42509	438	145

Description

5000699374 coenzyme pqq synthesis protein:pqqe:m (gtcfc:9.12) (keggfc:14.2) (tigrfc:2.4) (db:gtc-methanococcus jannaschii) MJ1632 MJ1632 Methanococcus jannaschii 2190 -11540896 174195 hypothetical protein mj1632 (cl:hypothetical protein mj1632) (db:pir2.dat) (mp:for1612683-1613450) F64503 F64503 Methanococcus jannaschii 2190 -11540896 248064 mj1632 coenzyme pqq synthesis protein pqqe (db:genpept-bct1) (de:methanococcus jannaschii section 145 of 150 of the complete genome.) (nt:similar to sp:p27507 pid:809708 percent identity:) (le:7975) (re:8742) (di:direct) U67603 U67603 g1592222 Methanococcus jannaschii 2190 -11540896 6500737038 coenzyme pqq synthesis protein:pqqe:m (gtcfc:9.12) (keggfc:14.2) (tigrfc:2.4) (db:gtc-methanococcus jannaschii) MJ1632 MJ1632 Methanococcus jannaschii 2190 -11540896

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929060	20354	42510	561	186

Description

5000698115 coenzyme pqq synthesis protein iii isolog:haemophilus influenzae:coenzyme pqq synthesis protein iii (gtcfc:9.12) (keggfc:14.2) (tigrfc:2.4) (db:gtc-methanococcus jannaschii) MJ1645 MJ1645 Methanococcus jannaschii 2190 -11540897 173037 coenzyme pqq synthesis protein iii homolog (db:pir2.dat) (mp:for1627687-1628418) C64505 C64505 Methanococcus jannaschii 2190 -11540897 248077 mj1645 coenzyme pqq synthesis protein iii isolog (db:genpept-bct1) (de:methanococcus jannaschii section 147 of 150 of the complete genome.) (nt:similar to gb:142023 pid:1007054 pid:1221312) (le:648) (re:1379) (di:direct) U67605 U67605 g1592229 Methanococcus jannaschii 2190 -11540897 6500737039 coenzyme pqq synthesis protein iii isolog:haemophilus influenzae:coenzyme pqq synthesis protein iii (gtcfc:9.12) (keggfc:14.2) (tigrfc:2.4) (db:gtc-methanococcus jannaschii) MJ1645 MJ1645 Methanococcus jannaschii 2190 -11540897

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929069	20355	42511	1983	660

Description

6500737040 riba:gtp cyclohydrolase ii (gtcfc:9.2) (ec:3.5.4.25) (keggfc:9.2) (tigrfc:2.7) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-riboflavin metabolism (vitamin b2)) MJ0055 MJ0055 Methanococcus jannaschii 2190 -11540898 119944 mj0055 (de:hypothetical protein mj0055) (db:swissprot) Y055_METJA Q60364 METHANOCOCCUS JANNASCHII 2190 -11540898 173155 gtp cyclohydrolase ii (cl:methanococcus cyclohydrolase ii) (ec:3.5.4.25) (db:pir2.dat) (mp:rev55763-55080) G64306 G64306 Methanococcus jannaschii 2190 -11540898 246489 mj0055 gtp cyclohydrolase ii riba (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to gb:l09228 sp:p17620 gb:x51510 pid:40087) (le:6368) (re:7051) (di:complement) U67463 U67463 g1590849 Methanococcus jannaschii 2190 -11540898 5000698118 (de:(mj0055) (pn:hypothetical protein mj0055:gtp cyclohydrolase ii) (gtcfc:9.2) (ec:) (y055_metja) (keggfc:11.2) (tigrfc:2.8) (db:gtc-methanococcus jannaschii)) MJ0055 MJ0055 Methanococcus jannaschii 2190 10062708

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929073	20356	42512	1074	357

Description

GTC ORF with score 195 to: (fn:essential for silencing of the mating-type) (sr:fission yeast) (db:genpept-pln2) (de:schizosaccharomyces pombe clr4p (clr4) gene, complete cds.) (nt:contains chromo- and set domains, motifs found in) (le:1013) (re:2485) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929081	20357	42513	471	156

Description

6500737041 ribh:putative 6:7-dimethyl-8-ribityllumazine synthase:dmrl synthase:lumazine synthase:riboflavin synthase beta chain (gtcfc:9.2) (ec:2.5.1.9) (keggfc:9.2) (tigrfc:2.7) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-riboflavin metabolism (vitamin b2)) MJ0303 MJ0303 Methanococcus jannaschii 2190 -11540899 500685084 mj0303 (ec:2.5.1.9) (de:synthase) (lumazine synthase) (riboflavin synthase beta chain)) (db:swissprot) RISB_METJA Q57751 METHANOCOCCUS JANNASCHII 2190 -11540899 173438 hypothetical protein mj0303 (db:pir2.dat) (mp:rev285980-285555) H64337 H64337 Methanococcus jannaschii 2190 -11540899 246738 mj0303 riboflavin synthase beta chain ribh (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to gb:l09228 sp:p11998 gb:x51510 pid:40088) (le:4356) (re:4781) (di:complement) U67485 U67485 g1591026 Methanococcus jannaschii 2190 -11540899 5000698119 (de:(mj0303) (pn:hypothetical protein mj0303:riboflavin synthase beta chain) (gtcfc:9.2) (ec:) (keggfc:11.2) (tigrfc:2.8) (db:gtc-methanococcus jannaschii)) MJ0303 MJ0303 Methanococcus jannaschii 2190 10062711

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929101	20358	42514	642	213

Description

5000698120 riboflavin-specific deaminase:ribg:putative riboflavin biosynthesis enzyme (gtcfc:9.2) (keggfc:14.2) (tigrfc:2.7) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-riboflavin metabolism (vitamin b2)) MJ0671 MJ0671 Methanococcus jannaschii 2190 -11540900 4000707694 mj0671 (de:putative riboflavin biosynthesis enzyme) (db:swissprot) RIBD_METJA Q58085 METHANOCOCCUS JANNASCHII 2190 -11540900 174470 riboflavin-specific deaminase (cl:riboflavin-specific deaminase) (ec:3.5.4.-) (db:pir2.dat) (mp:rev597638-596964) G64383 G64383 Methanococcus jannaschii 2190 -11540900 247105 mj0671 riboflavin-specific deaminase ribg (db:genpept-bct1) (de:methanococcus jannaschii section 56 of 150 of the complete genome.) (nt:similar to pid:1173516 sp:p50853 percent identity:) (le:5679) (re:6353) (di:complement) U67514 U67514 g1591385 Methanococcus jannaschii 2190 -11540900 6500737042 riboflavin-specific deaminase:ribg:putative riboflavin biosynthesis enzyme (gtcfc:9.2) (keggfc:14.2) (tigrfc:2.7) (db:gtc-methanococcus jannaschii) MJ0671 MJ0671 Methanococcus jannaschii 2190 -11540900

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929104	20359	42515	480	159

Description

5000698121 riboflavin synthase:ribc:m (gtcfc:9.2) (keggfc:14.2) (tigrfc:2.7) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-riboflavin metabolism (vitamin b2)) MJ1184 MJ1184 Methanococcus jannaschii 2190 -11540901 173928 hypothetical protein mj1184 (db:pir2.dat) (mp:for1122695-1123165) G64447 G64447 Methanococcus jannaschii 2190 -11540901 247617 mj1184 riboflavin synthase ribc (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to gp:1419079 percent identity: 68.00;) (le:11258) (re:11728) (di:direct) U67559 U67559 g1591811 Methanococcus jannaschii 2190 -11540901 6500737043 riboflavin synthase:ribc:m (gtcfc:9.2) (keggfc:14.2) (tigrfc:2.7) (db:gtc-methanococcus jannaschii) MJ1184 MJ1184 Methanococcus jannaschii 2190 -11540901

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929127	20360	42516	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929147	20361	42517	642	213

Description

6500737044 nadc:mj0493 nicotinate-nucleotide pyrophosphorylase:probable nicotinate-nucleotide pyrophosphorylase:carboxylating:quinolinate phosphoribosyltransferase:decarboxylating:qaprtase (gtcfc:9.4) (ec:2.4.2.19) (keggfc:9.4) (tigrfc:2.10) (db:gtc-methanococcus jannaschii) MJ0493 MJ0493 Methanococcus jannaschii 2190 -11540902 4000709518 nadc:mj0493 (ec:2.4.2.19) (de:(decarboxylating)) (qaprtase)) (db:swissprot) NADC_METJA Q57916 METHANOCOCCUS JANNASCHII 2190 -11540902 174379 nicotinate-nucleotide pyrophosphorylase carboxylating::quinolinate phosphoribosyltransferase (cl:nicotinate-nucleotide pyrophosphorylase (carboxylating)) (ec:2.4.2.19) (db:pir2.dat) (mp:rev436372-435521) E64361 E64361 Methanococcus jannaschii 2190 -11540902 246927 mj0493 nicotinate-nucleotide pyrophosphorylase nadc (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:similar to gb:l20833 sp:p30011 gb:l28105 pid:310262) (le:4758) (re:5609) (di:complement) U67499 U67499 g1591197 Methanococcus jannaschii 2190 -11540902 5000698122 (de:(mj0493) (pn:quinolinate phosphoribosyltransferase) (gtcfc:9.4) (ec:2.4.2.19) (keggfc:9.4) (tigrfc:2.1) (db:gtc-methanococcus jannaschii)) MJ0493 MJ0493 Methanococcus jannaschii 2190 10092414

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929155	20362	42518	273	90

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929164	20363	42519	585	194

Description

5000698123 dfp:pantothenate metabolism flavoprotein (gtcfc:9.5:2.8) (keggfc:14.2) (tigrfc:2.6) (db:gtc-methanococcus jannaschii) MJ0913 MJ0913 Methanococcus jannaschii 2190 -11540903 7500880203 mj0913 (de:dna/pantothenate metabolism flavoprotein homolog) (db:swissprot) DFP_METJA Q58323 METHANOCOCCUS JANNASCHII 2190 -11540903 174397 pantothenate metabolism flavoprotein (cl:pantothenate metabolism flavoprotein) (db:pir2.dat) (mp:rev845792-844581) A64414 A64414 Methanococcus jannaschii 2190 -11540903 7500880205 mj0913 pantothenate metabolism flavoprotein dfp (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44953 pid:1006107) (le:1019) (re:2230) (di:complement) U67535 U67535 g1591587 Methanococcus jannaschii 2190 -11540903 6500737045 dfp:pantothenate metabolism flavoprotein (gtcfc:9.5:2.8) (keggfc:14.2) (tigrfc:2.6) (db:gtc-methanococcus jannaschii) MJ0913 MJ0913 Methanococcus jannaschii 2190 -11540903 247347 mju67535 (le:844581) (re:845792) (di:direct) (de:or:methanococcus jannaschii pn:pantothenate metabolism flavoprotein gn:mj0913 le:1019 re:2230 di:complement nt:similar to egad:hi0953 percent identity: 32.6;) U67535 U67535 g1591587 Methanococcus jannaschii 2190 -11540903

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929183	20364	42520	291	96

Description

6500737046 biob:biotin synthetase (gtcfc:9.6) (ec:2.8.1.-) (keggfc:9.6) (tigrfc:2.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis) MJ1296 MJ1296 Methanococcus jannaschii 2190 -11540904 7500877815 biob:mj1296 (ec:2.8.1.6) (de:biotin synthase, (biotin synthetase)) (db:swissprot) BIOB_METJA Q58692 METHANOCOCCUS JANNASCHII 2190 -11540904 172985 biotin synthetase (db:pir2.dat) (mp:rev1244593-1243517) G64461 G64461 Methanococcus jannaschii 2190 -11540904 7500877817 mj1296 biotin synthetase biob (db:genpept-bct1) (de:methanococcus jannaschii section 112 of 150 of the complete genome.) (nt:similar to gb:m27867 sp:p19206 pid:142591) (le:4983) (re:6059) (di:complement) U67570 U67570 g1591934 Methanococcus jannaschii 2190 -11540904 247729 mju67570 (le:1243517) (re:1244593) (di:direct) (de:or:methanococcus jannaschii pn:biotin synthetase gn:mj1296 le:4985 re:6061 di:complement nt:similar to p19206 percent identity: 38.7;) U67570 U67570 g1591934 Methanococcus jannaschii 2190 -11540904 5000698124 (de:(mj1296) (pn:biotin synthetase) (gtcfc:9.6) (ec:2.8.1.-) (keggfc:9.6) (tigrfc:2.2) (db:gtc-methanococcus jannaschii)) MJ1296 MJ1296 Methanococcus jannaschii 2190 10091426

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929185	20365	42521	792	263

Description

6500737047 biow:6-carboxyhexanoate-coa ligase (gtcfc:9.6) (ec:6.2.1.14) (keggfc:9.6) (tigrfc:2.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis) MJ1297 MJ1297 Methanococcus jannaschii 2190 -11540905 172922 6-carboxyhexanoate--coa ligase (cl:6-carboxyhexanoate--coa ligase biow) (ec:6.2.1.14) (db:pir2.dat) (mp:for1244632-1245345) H64461 H64461 Methanococcus jannaschii 2190 -11540905 247730 mj1297 6-carboxyhexanoate-coa ligase biow (db:genpept-bct1) (de:methanococcus jannaschii section 112 of 150 of the complete genome.) (nt:similar to gb:m29291 sp:p22822 pid:142594 percent) (le:6098) (re:6811) (di:direct) U67570 U67570 g1591935 Methanococcus jannaschii 2190 -11540905 5000698125 (de:(mj1297) (pn:6-carboxyhexanoate-coa ligase) (gtcfc:9.6) (ec:6.2.1.14) (keggfc:9.6) (tigrfc:2.2) (db:gtc-methanococcus jannaschii)) MJ1297 MJ1297 Methanococcus jannaschii 2190 10091397

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929189	20366	42522	558	185

Description

GTC ORF with score 499 to: (sr:schizosaccharomyces pombe (strain:972 h-) dna, clone_lib:mizukam) (db:genpept-pln1) (de:schizosaccharomyces pombe 37 kb genomic dna, clone c213.) (nt:similar to s.cerevisiae hypothetical 47.4kd) (le:6242:6541:6884) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929190	20367	42523	195	64

Description

GTC ORF with score 131 to: (sr:schizosaccharomyces pombe (strain:972 h-) dna, clone_lib:mizukam) (db:genpept-pln1) (de:schizosaccharomyces pombe 37 kb genomic dna, clone c213.) (nt:similar to s.cerevisiae hypothetical 47.4kd) (le:6242:6541:6884) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929191	20368	42524	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929193	20369	42525	297	98

Description

6500737048 biof:8-amino-7-oxononanoate synthase (gtcfc:9.6) (ec:2.3.1.47) (keggfc:9.6) (tigrfc:2.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis) MJ1298 MJ1298 Methanococcus jannaschii 2190 -11540906 5000698126 biof:mj1298 (ec:2.3.1.47) (de:ligase)) (db:swissprot) BIOF_METJA Q58694 METHANOCOCCUS JANNASCHII 2190 -11540906 172923 8-amino-7-oxononanoate synthase (cl:5-aminolevulinate synthase) (ec:2.3.1.47) (db:pir2.dat) (mp:for1245358-1246476) A64462 A64462 Methanococcus jannaschii 2190 -11540906 247731 mj1298 8-amino-7-oxononanoate synthase biof (db:genpept-bct1) (de:methanococcus jannaschii section 112 of 150 of the complete genome.) (nt:similar to gb:m29291 sp:p22806 pid:142595 percent) (le:6824) (re:7942) (di:direct) U67570 U67570 g1591936 Methanococcus jannaschii 2190 -11540906

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929200	20370	42526	345	114

Description

6500737049 biod:dethiobiotin synthetase (gtcfc:9.6) (ec:6.3.3.3) (keggfc:9.6) (tigrfc:2.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis) MJ1299 MJ1299 Methanococcus jannaschii 2190 -11540907 5000698127 biod:mj1299 (ec:6.3.3.3) (de:synthetase) (dtbs)) (db:swissprot) BIOD_METJA Q58695 METHANOCOCCUS JANNASCHII 2190 -11540907 173048 dethiobiotin synthase (cl:dethiobiotin synthase) (ec:6.3.3.3) (db:pir2.dat) (mp:for1246520-1247266) B64462 B64462 Methanococcus jannaschii 2190 -11540907 247732 mj1299 dethiobiotin synthetase biod (db:genpept-bct1) (de:methanococcus jannaschii section 112 of 150 of the complete genome.) (nt:similar to gb:m29292 sp:p22818 pid:551693 percent) (le:7986) (re:8732) (di:direct) U67570 U67570 g1591937 Methanococcus jannaschii 2190 -11540907

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929204	20371	42527	561	186

Description

6500737050 bioa:adenosylmethionine-8-amino-7-oxononanoate aminotransferase (gtcfc:9.6) (ec:2.6.1.62) (keggfc:9.6) (tigrfc:2.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis) MJ1300 MJ1300 Methanococcus jannaschii 2190 -11540908 5000698128 bioa:mj1300 (ec:2.6.1.62) (de:aminotransferase)) (db:swissprot) BIOA_METJA Q58696 METHANOCOCCUS JANNASCHII 2190 -11540908 172942 adenosylmethionine--8-amino-7-oxononanoate transaminase::adenosylmethionine-8-amino-7-oxononanoate aminotransferase (cl:beta-alanine--pyruvate transaminase) (ec:2.6.1.62) (db:pir2.dat) (mp:for1247263-1248657) C64462 C64462 Methanococcus jannaschii 2190 -11540908 247733 mj1300 adenosylmethionine-8-amino-7-oxononanoate (db:genpept-bct1) (de:methanococcus jannaschii section 112 of 150 of the complete genome.) (nt:similar to gb:m29292 sp:p22805 pid:142589 percent) (le:8729) (re:10123) (di:direct) U67570 U67570 g1591938 Methanococcus jannaschii 2190 -11540908

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929227	20372	42528	1536	511

Description

6500737051 na+/ca+ exchanger protein:putative:cation antiporter (gtcfc:9.6:12.5) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0091 MJ0091 Methanococcus jannaschii 2190 -11540909 118776 mj0091 (de:hypothetical protein mj0091) (db:swissprot) Y091_METJA Q57556 METHANOCOCCUS JANNASCHII 2190 -11540909 174373 na+/ca2+-exchanging protein (db:pir2.dat) (mp:for85705-86613) C64311 C64311 Methanococcus jannaschii 2190 -11540909 246525 mj0091 na+/ca+ exchanger protein:putative (db:genpept-bct1) (de:methanococcus jannaschii section 8 of 150 of the complete genome.) (nt:similar to sp:p45394 pid:606134 gb:u00096) (le:6168) (re:7076) (di:direct) U67466 U67466 g1590872 Methanococcus jannaschii 2190 -11540909 5000698403 (de:(mj0091) (pn:hypothetical protein mj0091:na) (gtcfc:12.6) (ec:) (y091_metja) (keggfc:11.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii)) MJ0091 MJ0091 Methanococcus jannaschii 2190 10061138

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929234	20373	42529	348	115

Description

6500737052 large helicase-related protein:lhr:probably rna helicase:hypothetical helicase (gtcfc:9.6:10.7) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:metabolism of macromolecules-protein translation and modification) MJ0294 MJ0294 Methanococcus jannaschii 2190 -11540910 500684933 mj0294 (de:putative atp-dependent helicase mj0294) (db:swissprot) HELX_METJA Q57742 METHANOCOCCUS JANNASCHII 2190 -11540910 174308 large helicase related protein lhr homolog (cl:dead/h box helicase homology) (db:pir2.dat) (mp:rev279066-276541) G64336 G64336 Methanococcus jannaschii 2190 -11540910 246729 mj0294 large helicase-related protein lhr:probably (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:similar to gp:1707782 percent identity: 51.90;) (le:5377) (re:7902) (di:complement) U67484 U67484 g1591016 Methanococcus jannaschii 2190 -11540910 5000698450 (de:(mj0294) (pn:large helicase related protein, lhr) (gtcfc:13.7) (ec:) (keggfc:11.2) (tigrfc:14.6) (db:gtc-methanococcus jannaschii)) MJ0294 MJ0294 Methanococcus jannaschii 2190 10060743

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929235	20374	42530	693	230

Description

6500737053 hypothetical transmembrane protein yeab:cation efflux system protein:zinc/cadmium (gtcfc:9.6:14.1) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:unknown-hypothetical) MJ0449 MJ0449 Methanococcus jannaschii 2190 -11540911 4000709946 mj0449 (de:hypothetical protein mj0449) (db:swissprot) Y449_METJA Q57891 METHANOCOCCUS JANNASCHII 2190 -11540911 173137 gabp 5-region hypothetical protein homolog mj0449 (cl:conserved hypothetical protein mj0449) (db:pir2.dat) (mp:for401948-402799) A64356 A64356 Methanococcus jannaschii 2190 -11540911 246883 mj0449 hypothetical transmembrane protein yeab (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to gp:1708640 percent identity: 31.05;) (le:3231) (re:4082) (di:direct) U67496 U67496 g1591153 Methanococcus jannaschii 2190 -11540911 5000698724 (de:(mj0449) (pn:hypothetical protein mj0449:hypothetical protein:p46348) (gtcfc:13.7:14.1) (ec:) (keggfc:11.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii)) MJ0449 MJ0449 Methanococcus jannaschii 2190 10091522

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929236	20375	42531	342	114

Description

6500737054 tungsten formylmethanofuran dehydrogenase:subunit c related protein (gtcfc:9.6:14.1) (ec:1.2.99.5) (keggfc:9.7) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:unknown-hypothetical) MJ0658 MJ0658 Methanococcus jannaschii 2190 -11540912 173126 formylmethanofuran dehydrogenase tungsten:subunit c related protein (ec:1.2.99.-) (db:pir2.dat) (mp:for584512-585480) B64382 B64382 Methanococcus jannaschii 2190 -11540912 247092 mju67513 (le:584512) (re:585480) (di:direct) (de:or:methanococcus jannaschii pn:tungsten formylmethanofuran dehydrogenase, gn:mj0658 le:3610 re:4578 di:direct nt:similar to x87970_6 percent identity: 35.3;) U67513 U67513 g1591371 Methanococcus jannaschii 2190 -11540912 5000698134 (de:(mj0658) (pn:tungsten formylmethanofuran dehydrogenase, subunit c related protein) (gtcfc:9.6) (ec:1.2.99.5) (keggfc:9.7) (tigrfc:6.13) (db:gtc-methanococcus jannaschii)) MJ0658 MJ0658 Methanococcus jannaschii 2190 10091514

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929245	20376	42532	1452	483

Description

6500737055 s-layer structural protein:atpase:vanadate-senstive (gtcfc:9.6:11.3) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:3.4) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:cell envelope-surface proteins--glycoproteins--and structures) MJ0822 MJ0822 Methanococcus jannaschii 2190 -11540913 174617 vanadate-senstive atpase homolog (db:pir2.dat) (mp:rev744514-742838) F64402 F64402 Methanococcus jannaschii 2190 -11540913 247256 mj0822 s-layer structural protein (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:similar to gb:m59200 pid:150044 percent identity:) (le:1047) (re:2723) (di:complement) U67526 U67526 g1591510 Methanococcus jannaschii 2190 -11540913 5000698138 (de:(mj0822) (pn:atpase, vanadate-senstive) (gtcfc:9.6) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:13.6) (db:gtc-methanococcus jannaschii)) MJ0822 MJ0822 Methanococcus jannaschii 2190 10092512

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929250	20377	42533	2610	869

Description

6500737056 rada:mj0869 dna repair protein rad51:protein (gtcfc:9.6:10.8) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:metabolism of macromolecules-dna replication--recombination/repair) MJ0869 MJ0869 Methanococcus jannaschii 2190 -11540914 121033 rada:mj0869 (de:dna repair protein rada) (db:swissprot) RADA_METJA Q49593 METHANOCOCCUS JANNASCHII 2190 -11540914 206628 rada dna repair protein rada (cl:rad51 protein) (db:pir2.dat) (mp:for791863-792921) E64408 E64408 Methanococcus jannaschii 2190 -11540914 247303 rada rada (db:genpept-bct2) (de:methanococcus jannaschii rada gene, complete cds.) (nt:reca-rad51 homolog) (le:315) (re:1373) (di:direct) MJU45312 U45312 g1378034 Methanococcus jannaschii 2190 -11540914 173061 rada dna repair protein rada (db:pir) (mp:for791863-792921) E64408 E64408 Methanococcus jannaschii 2190 -11540914 7500889339 mj0869 dna repair protein rad51 rada (db:genpept-bct1) (de:methanococcus jannaschii section 73 of 150 of the complete genome.) (nt:similar to gp:1378036 percent ident: 47.90;) (le:85) (re:1143) (di:direct) U67531 U67531 g1591553 Methanococcus jannaschii 2190 -11540914 246434 rada rada (db:genpept-bct2) (de:methanococcus jannaschii rada gene, complete cds.) (nt:reca-rad51 homolog) (le:315) (re:1373) (di:direct) MJU45312 U45312 g1378034 Methanococcus jannaschii 2190 -11540914 5000698286 (de:(mj0869) (pn:protein:dna repair protein) (gn:rada) (gtcfc:10.8) (ec:) (rada_metja) (keggfc:11.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0869 MJ0869 Methanococcus jannaschii 2190 10064280

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929268	20378	42534	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929272	20379	42535	282	93

Description

6500737057 copper transporting p type atpase:copa:cation transporting p-type atpase related protein (gtcfc:9.6:12.5) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0968 MJ0968 Methanococcus jannaschii 2190 -11540915 173818 hypothetical protein mj0968 (cl:hypothetical protein mj0968:atpase nucleotide-binding domain homology) (db:pir2.dat) (mp:for901998-902819) H64420 H64420 Methanococcus jannaschii 2190 -11540915 247402 mj0968 copper transporting p type atpase copa (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to gb:l33259 pid:495028 gb:ae000511) (le:760) (re:1581) (di:direct) U67540 U67540 g1499806 Methanococcus jannaschii 2190 -11540915 5000698390 (de:(mj0968) (pn:copper transporting p type atpase) (gtcfc:12.5) (ec:) (keggfc:11.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii)) MJ0968 MJ0968 Methanococcus jannaschii 2190 10091970

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929281	20380	42536	414	137

Description

6500737058 arsa:arsenical pump-driving atpase (gtcfc:9.6:12.6) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:cell processes-transporters of unknown specificity (abc_atpases_drug) ... MJ1142 MJ1142 Methanococcus jannaschii 2190 -11540916 172968 probable arsenical pump-driving atpase (cl:arsenical pump-driving atpase) (ec:3.6.1.-) (db:pir2.dat) (mp:for1081432-1082481) E64442 E64442 Methanococcus jannaschii 2190 -11540916 247575 mj1142 arsenical pump-driving atpase arsa (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gb:u60276 pid:1616741 percent identity:) (le:9404) (re:10453) (di:direct) U67556 U67556 g1591774 Methanococcus jannaschii 2190 -11540916 5000698147 (de:(mj1142) (pn:arsenical pump-driving atpase) (gtcfc:9.6) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:13.6) (db:gtc-methanococcus jannaschii)) MJ1142 MJ1142 Methanococcus jannaschii 2190 10091416

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929291	20381	42537	306	101

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929300	20382	42538	903	301

Description

6500737059 mutator mutt protein:putative:mutt:mutator mutt protein (gtcfc:9.6:10.8) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:metabolism of macromolecules-dna replication--recombination/repair) MJ1149 MJ1149 Methanococcus jannaschii 2190 -11540917 174353 mutator protein mutt (cl:mutt domain homology) (db:pir2.dat) (mp:rev1088621-1088112) D64443 D64443 Methanococcus jannaschii 2190 -11540917 247582 mj1149 mutator mutt protein:putative mutt (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:similar to gb:d10483 sp:p08337 gb:m20791 gb:x04831) (le:3390) (re:3899) (di:complement) U67557 U67557 g1500003 Methanococcus jannaschii 2190 -11540917 5000698292 (de:(mj1149) (pn:mutator mutt protein) (gtcfc:10.8) (ec:) (keggfc:11.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ1149 MJ1149 Methanococcus jannaschii 2190 10092397

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929302	20383	42539	246	81

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929305	20384	42540	1323	440

Description

6500737060 dna-repair endonuclease:putative:putative atp-dependent rna helicase:eif-4a family (gtcfc:9.6:10.8) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:metabolism of macromolecules-dna replication--recombination/repair) MJ1505 MJ1505 Methanococcus jannaschii 2190 -11540918 173086 eif-4a family probable atp-dependent rna helicase homolog (cl:unassigned dead/h box helicases:dead/h box helicase homology) (db:pir2.dat) (mp:rev1478605-1476251) H64487 H64487 Methanococcus jannaschii 2190 -11540918 247938 mju67591 (le:1476251) (re:1478605) (di:direct) (de:or:methanococcus jannaschii pn:putative atp-dependent rna helicase, eif-4a gn:mj1505 le:4096 re:6450 di:complement nt:similar to p40562 percent identity: 31.6;) U67591 U67591 g1592139 Methanococcus jannaschii 2190 -11540918 5000698268 (de:(mj1505) (pn:putative atp-dependent rna helicase, eif-4a family) (gtcfc:10.6:13.7) (ec:) (keggfc:11.2) (tigrfc:12.7) (db:gtc-methanococcus jannaschii)) MJ1505 MJ1505 Methanococcus jannaschii 2190 10091487

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929310	20385	42541	621	206

Description

6500737061 atp-dependent rna helicase:eif-4a family:putative:putative atp-dependent rna helicase:eif-4a family (gtcfc:9.6:10.7) (ec:3.6.1.-) (keggfc:9.7) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis:metabolism of macromolecules-protein translation and modification) MJ1574 MJ1574 Methanococcus jannaschii 2190 -11540919 173085 eif-4a family probable atp-dependent rna helicase homolog (cl:unassigned dead/h box helicases:dead/h box helicase homology) (db:pir2.dat) (mp:rev1550462-1548408) E64496 E64496 Methanococcus jannaschii 2190 -11540919 248007 mj1574 atp-dependent rna helicase:eif-4a family (db:genpept-bct1) (de:methanococcus jannaschii section 139 of 150 of the complete genome.) (nt:similar to pid:1146178 sp:p50830 gb:al009126) (le:8439) (re:10493) (di:complement) U67597 U67597 g1592195 Methanococcus jannaschii 2190 -11540919 5000698269 (de:(mj1574) (pn:putative atp-dependent rna helicase, eif-4a family) (gtcfc:10.6:13.7) (ec:) (keggfc:11.2) (tigrfc:12.7) (db:gtc-methanococcus jannaschii)) MJ1574 MJ1574 Methanococcus jannaschii 2190 10091486

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929339	20386	42542	633	210

Description

GTC ORF with score 113 to: (or:Anolis pulchellus) (fn:precursor of yolk proteins, serum transport) (db:genpept-vrt) (de:anolis pulchellus vitellogenin mrna, partial cds.) (nt:apvtg5; similar to chicken and xenopus phosvitin) (le:<1) (re:546) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929340	20387	42543	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929344	20388	42544	414	137

Description

5000698157 biotin synthetase:putative:biob:hypothetical protein (gtcfc:9.6) (keggfc:14.2) (tigrfc:2.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis) MJ0785 MJ0785 Methanococcus jannaschii 2190 -11540920 4000708413 mj0785 (de:hypothetical protein mj0785) (db:swissprot) Y785_METJA Q58195 METHANOCOCCUS JANNASCHII 2190 -11540920 173244 hypothetical protein homolog mj0785 (db:pir2.dat) (mp:for708316-709443) A64398 A64398 Methanococcus jannaschii 2190 -11540920 247219 mj0785 biotin synthetase:putative biob (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:similar to gb:m27867 sp:p19206 pid:142591) (le:2243) (re:3370) (di:direct) U67523 U67523 g1591485 Methanococcus jannaschii 2190 -11540920 6500737062 biotin synthetase:putative:biob:hypothetical protein (gtcfc:9.6) (keggfc:14.2) (tigrfc:2.1) (db:gtc-methanococcus jannaschii) MJ0785 MJ0785 Methanococcus jannaschii 2190 -11540920

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929345	20389	42545	1254	417

Description

6500737063 biotin operon repressor/biotin--:bifunctional protein (gtcfc:9.6) (ec:6.3.4.15) (keggfc:14.1) (tigrfc:2.1) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis) MJ1619 MJ1619 Methanococcus jannaschii 2190 -11540921 172981 bifunctional protein homolog (db:pir2.dat) (mp:rev1594496-1593783) B64502 B64502 Methanococcus jannaschii 2190 -11540921 248052 mj1619 biotin operon (db:genpept-bct1) (de:methanococcus jannaschii section 144 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p46363 pid:1161402) (le:2343) (re:3056) (di:complement) U67602 U67602 g1592217 Methanococcus jannaschii 2190 -11540921 5000698158 (de:(mj1619) (pn:bifunctional protein) (gtcfc:9.6:9.8) (ec:) (keggfc:11.2) (tigrfc:2.2) (db:gtc-methanococcus jannaschii)) MJ1619 MJ1619 Methanococcus jannaschii 2190 10091424

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929352	20390	42546	186	61

Description

5000698159 dihydropteroate synthase:hypothetical protein (gtcfc:9.6) (keggfc:14.2) (tigrfc:2.2) (db:gtc-methanococcus jannaschii) (gtcfc:metabolism of cofactors and vitamins-biotin metabolism (b8) and folate biosynthesis) MJ0107 MJ0107 Methanococcus jannaschii 2190 -11540922 118787 mj0107 (de:hypothetical protein mj0107) (db:swissprot) Y107_METJA Q57571 METHANOCOCCUS JANNASCHII 2190 -11540922 173342 conserved hypothetical protein mj0107 (cl:methanococcus jannaschii conserved hypothetical protein mj0107) (db:pir2.dat) (mp:for102721-104298) C64313 C64313 Methanococcus jannaschii 2190 -11540922 246541 mj0107 dihydropteroate synthase (db:genpept-bct1) (de:methanococcus jannaschii section 10 of 150 of the complete genome.) (nt:similar to gb:l04468 sp:q05621 pid:409099 percent) (le:981) (re:2558) (di:direct) U67468 U67468 g1590884 Methanococcus jannaschii 2190 -11540922 6500737064 dihydropteroate synthase:hypothetical protein (gtcfc:9.6) (keggfc:14.2) (tigrfc:2.2) (db:gtc-methanococcus jannaschii) MJ0107 MJ0107 Methanococcus jannaschii 2190 -11540922

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929360	20391	42547	921	306

Description

GTC ORF with score 719 to: (sr:erwinia herbicola (strain eho10) dna) (db:genpept-bct1) (de:erwinia herbicola geranylgeranyl pyrophosphate synthase (crte),zeaxanthin glucosyl transferase (crtx), lycopene cyclase (crty),phyotene dehydogenase (crti), ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929361	20392	42548	240	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929391	20393	42549	354	117

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929399	20394	42550	201	66

Description

5000698443 archaeal histone a1:probable archaeal histone 1 (gtcfc:10.1) (keggfc:14.2) (tigrfc:4.4) (db:gtc-methanococcus jannaschii) MJ0168 MJ0168 Methanococcus jannaschii 2190 -11540923 118568 mj0168 (de:probable archaeal histone 1) (db:swissprot) HJA1_METJA Q57632 METHANOCOCCUS JANNASCHII 2190 -11540923 172961 archaeal histone (db:pir2.dat) (mp:rev171013-170810) A64321 A64321 Methanococcus jannaschii 2190 -11540923 246603 mj0168 archaeal histone a1 (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to gb:u08838 pid:484073 sp:p50486 percent) (le:87) (re:290) (di:complement) U67474 U67474 g1498941 Methanococcus jannaschii 2190 -11540923 6500737065 archaeal histone a1:probable archaeal histone 1 (gtcfc:10.1) (keggfc:14.2) (tigrfc:4.4) (db:gtc-methanococcus jannaschii) MJ0168 MJ0168 Methanococcus jannaschii 2190 -11540923

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929405	20395	42551	1296	431

Description

5000698444 archaeal histone a2:probable archaeal histone 2 (gtcfc:10.1) (keggfc:14.2) (tigrfc:4.4) (db:gtc-methanococcus jannaschii) MJ0932 MJ0932 Methanococcus jannaschii 2190 -11540924 118569 mj0932 (de:probable archaeal histone 2) (db:swissprot) HJA2_METJA Q58342 METHANOCOCCUS JANNASCHII 2190 -11540924 172963 archaeal histone (db:pir2.dat) (mp:for862210-862413) D64416 D64416 Methanococcus jannaschii 2190 -11540924 247366 mj0932 archaeal histone a2 (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:similar to gb:u08838 pid:484073 sp:p50486 percent) (le:8961) (re:9164) (di:direct) U67536 U67536 g1591603 Methanococcus jannaschii 2190 -11540924 6500737066 archaeal histone a2:probable archaeal histone 2 (gtcfc:10.1) (keggfc:14.2) (tigrfc:4.4) (db:gtc-methanococcus jannaschii) MJ0932 MJ0932 Methanococcus jannaschii 2190 -11540924

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929406	20396	42552	1227	408

Description

5000698445 archaeal histone a3:probable archaeal histone 3 (gtcfc:10.1) (keggfc:14.2) (tigrfc:4.4) (db:gtc-methanococcus jannaschii) MJ1258 MJ1258 Methanococcus jannaschii 2190 -11540925 118570 mj1258 (de:probable archaeal histone 3) (db:swissprot) HJA3_METJA Q58655 METHANOCOCCUS JANNASCHII 2190 -11540925 172962 archaeal histone (db:pir2.dat) (mp:for1200677-1200880) A64457 A64457 Methanococcus jannaschii 2190 -11540925 247691 mj1258 archaeal histone a3 (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:similar to gb:u08838 pid:484073 sp:p50486 percent) (le:4789) (re:4992) (di:direct) U67566 U67566 g1591892 Methanococcus jannaschii 2190 -11540925 6500737067 archaeal histone a3:probable archaeal histone 3 (gtcfc:10.1) (keggfc:14.2) (tigrfc:4.4) (db:gtc-methanococcus jannaschii) MJ1258 MJ1258 Methanococcus jannaschii 2190 -11540925

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929419	20397	42553	399	132

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929428	20398	42554	234	77

Description

6500737068 thermonuclease:thermonuclease precursor (gtcfc:10.10) (ec:3.1.31.1) (keggfc:14.1) (tigrfc:10.1) (db:gtc-methanococcus jannaschii) MJ1439 MJ1439 Methanococcus jannaschii 2190 -11540926 5500686556 mj1439 (de:hypothetical protein mj1439) (db:swissprot) YE39_METJA Q58834 METHANOCOCCUS JANNASCHII 2190 -11540926 174560 thermonuclease precursor homolog (db:pir2.dat) (mp:for1406535-1407158) F64479 F64479 Methanococcus jannaschii 2190 -11540926 247872 mj1439 thermonuclease (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:similar to gb:l23973 sp:p43270 pid:532653 percent) (le:9957) (re:10580) (di:direct) U67584 U67584 g1592087 Methanococcus jannaschii 2190 -11540926 5000698164 (de:(mj1439) (pn:thermonuclease precursor) (gtcfc:10.10) (ec:3.1.31.1) (keggfc:11.1) (tigrfc:10.1) (db:gtc-methanococcus jannaschii)) MJ1439 MJ1439 Methanococcus jannaschii 2190 10092484

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929431	20399	42555	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929443	20400	42556	438	145

Description

6500737069 proteasome:subunit alpha:psma:proteasome:alpha subunit:multicatalytic endopeptidase complex alpha subunit (gtcfc:10.11) (ec:3.4.99.46) (keggfc:14.1) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ0591 MJ0591 Methanococcus jannaschii 2190 -11540927 120911 mj0591 (ec:3.4.99.46) (de:complex alpha subunit)) (db:swissprot) PRCA_METJA Q60177 METHANOCOCCUS JANNASCHII 2190 -11540927 174453 proteasome alpha subunit homolog (cl:multicatalytic endopeptidase complex chain c9) (db:pir2.dat) (mp:for524720-525505) G64373 G64373 Methanococcus jannaschii 2190 -11540927 247025 mj0591 proteasome:subunit alpha psma (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:similar to pid:1002689 percent identity: 57.89;) (le:9189) (re:9974) (di:direct) U67507 U67507 g1591299 Methanococcus jannaschii 2190 -11540927 5000698166 (de:(mj0591) (pn:proteasome, alpha subunit:multicatalytic endopeptidase complex alpha subunit:proteasome, subunit alpha) (gtcfc:10.11) (ec:3.4.99.46) (prca_metja) (keggfc:11.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii)) MJ0591 MJ0591 Methanococcus jannaschii 2190 10064099

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929444	20401	42557	315	104

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929449	20402	42558	780	259

Description

6500737070 x-pro aminopeptidase:pepq:xaa-pro dipeptidase (gtcfc:10.11) (ec:3.4.13.9) (keggfc:14.1) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ0806 MJ0806 Methanococcus jannaschii 2190 -11540928 5500686411 mj0806 (ec:3.4.-.-) (de:hypothetical peptidase mj0806,) (db:swissprot) Y806_METJA Q58216 METHANOCOCCUS JANNASCHII 2190 -11540928 174619 x-pro dipeptidase::xaa-pro dipeptidase (cl:x-pro aminopeptidase) (ec:3.4.13.9) (db:pir2.dat) (mp:rev730039-728996) F64400 F64400 Methanococcus jannaschii 2190 -11540928 247240 mj0806 x-pro aminopeptidase pepq (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to sp:p46545 pid:1150454 pid:609078 percent) (le:2732) (re:3775) (di:complement) U67525 U67525 g1591498 Methanococcus jannaschii 2190 -11540928 5000698167 (de:(mj0806) (pn:xaa-pro dipeptidase) (gtcfc:10.11) (ec:3.4.13.9) (keggfc:11.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii)) MJ0806 MJ0806 Methanococcus jannaschii 2190 10092514

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929460	20403	42559	513	170

Description

5000699436 intracellular protease:pfpi:m (gtcfc:10.11) (keggfc:14.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ0967 MJ0967 Methanococcus jannaschii 2190 -11540929 7500895751 mj0967 (de:hypothetical protein mj0967) (db:swissprot) Y967_METJA Q58377 METHANOCOCCUS JANNASCHII 2190 -11540929 173817 hypothetical protein mj0967 (db:pir2.dat) (mp:rev901942-901325) G64420 G64420 Methanococcus jannaschii 2190 -11540929 7500895753 mj0967 intracellular protease pfpi (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to pid:1373331 percent ident: 33.77;) (le:87) (re:704) (di:complement) U67540 U67540 g1499805 Methanococcus jannaschii 2190 -11540929 6500737071 intracellular protease:pfpi:m (gtcfc:10.11) (keggfc:14.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ0967 MJ0967 Methanococcus jannaschii 2190 -11540929 247401 mju67540 (le:901325) (re:901942) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0967 gn:mj0967 le:87 re:704 di:complement nt:identified by genemark; putative) U67540 U67540 g1499805 Methanococcus jannaschii 2190 -11540929

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929486	20404	42560	255	84

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929504	20405	42561	543	180

Description

6500737072 gcp:o-sialoglycoprotein endopeptidase (gtcfc:10.11) (ec:3.4.24.57) (keggfc:14.1) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ1130 MJ1130 Methanococcus jannaschii 2190 -11540930 174393 o-sialoglycoprotein endopeptidase:homolog (ec:3.4.24.57) (db:pir2.dat) (mp:rev1072010-1070391) A64441 A64441 Methanococcus jannaschii 2190 -11540930 7500896362 mj1130 (de:hypothetical protein mj1130) (db:swissprot) YB30_METJA Q58530 METHANOCOCCUS JANNASCHII 2190 -11540930 247563 mju67555 (le:1070391) (re:1072010) (di:direct) (de:or:methanococcus jannaschii pn:o-sialoglycoprotein endopeptidase gn:mj1130 le:9201 re:10820 di:complement nt:similar to p36132 percent identity: 50.3;) U67555 U67555 g1591765 Methanococcus jannaschii 2190 -11540930 5000698170 (de:(mj1130) (pn:o-sialoglycoprotein endopeptidase) (gtcfc:10.11) (ec:) (keggfc:11.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii)) MJ1130 MJ1130 Methanococcus jannaschii 2190 10092421

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929505	20406	42562	855	284

Description

5000698171 proteasome regulatory aaa-atpase:putative 26s protease regulatory subunit homolog (gtcfc:10.11) (keggfc:14.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ1176 MJ1176 Methanococcus jannaschii 2190 -11540931 1500685767 mj1176 (de:putative 26s protease regulatory subunit homolog mj1176) (db:swissprot) PRS1_METJA Q58576 METHANOCOCCUS JANNASCHII 2190 -11540931 172979 atp-dependent 26s proteosome regulatory subunit 4 homolog (cl:atp-dependent 26s proteinase:ftsh/sec18/cdc48-type atp-binding domain homology) (db:pir2.dat) (mp:rev1116282-1114990) G64446 G64446 Methanococcus jannaschii 2190 -11540931 247609 mj1176 proteasome regulatory aaa-atpase (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to gb:102426 sp:q03527 pid:403456 percent) (le:3553) (re:4845) (di:complement) U67559 U67559 g1591803 Methanococcus jannaschii 2190 -11540931 6500737073 proteasome regulatory aaa-atpase:putative 26s protease regulatory subunit homolog (gtcfc:10.11) (keggfc:14.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ1176 MJ1176 Methanococcus jannaschii 2190 -11540931

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929512	20407	42563	909	302

Description

6500737074 proteasome:subunit beta:psmb:proteasome:beta subunit:multicatalytic endopeptidase complex beta subunit (gtcfc:10.11) (ec:3.4.99.46) (keggfc:14.1) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ1237 MJ1237 Methanococcus jannaschii 2190 -11540932 120912 mj1237 (ec:3.4.99.46) (de:complex beta subunit)) (db:swissprot) PRCB_METJA Q58634 METHANOCOCCUS JANNASCHII 2190 -11540932 174454 proteasome beta subunit homolog (cl:multicatalytic endopeptidase complex chain c9) (db:pir2.dat) (mp:rev1183067-1182393) D64454 D64454 Methanococcus jannaschii 2190 -11540932 247670 mj1237 proteasome:subunit beta psmb (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:similar to pid:790625 percent identity: 48.24;) (le:7100) (re:7774) (di:complement) U67564 U67564 g1591869 Methanococcus jannaschii 2190 -11540932 5000698172 (de:(mj1237) (pn:proteasome, beta subunit:multicatalytic endopeptidase complex beta subunit:proteasome, subunit beta) (gtcfc:10.11) (ec:3.4.99.46) (prcb_metja) (keggfc:11.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii)) MJ1237 MJ1237 Methanococcus jannaschii 2190 10064100

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929524	20408	42564	957	318

Description

6500737075 atp-dependent protease la:putative:lon:atp-dependent protease la (gtcfc:10.11) (ec:3.4.21.53) (keggfc:14.1) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ1417 MJ1417 Methanococcus jannaschii 2190 -11540933 173089 endopeptidase la:homolog:atp-dependent protease la homolog (ec:3.4.21.53) (db:pir2.dat) (mp:for1378485-1380434) H64476 H64476 Methanococcus jannaschii 2190 -11540933 247850 mj1417 atp-dependent protease la:putative lon (db:genpept-bct1) (de:methanococcus jannaschii section 124 of 150 of the complete genome.) (nt:similar to sp:p52977 pid:1667399 percent identity:) (le:2659) (re:4608) (di:direct) U67582 U67582 g1592066 Methanococcus jannaschii 2190 -11540933 5000698173 (de:(mj1417) (pn:atp-dependent protease la) (gtcfc:10.11) (ec:3.4.21.53) (keggfc:11.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii)) MJ1417 MJ1417 Methanococcus jannaschii 2190 10091488

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929531	20409	42565	477	159

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929557	20410	42566	282	93

Description

GTC ORF with score 236 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid f57c12.) (nt:coded for by c. elegans cdna yk38a7.3; coded for by) (le:18458:19030:19405) (re:18586:19358:19864) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929561	20411	42567	234	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929571	20412	42568	432	143

Description

5000698462 heat shock protein htpx:possibly protease:htpx:heat shock protein x (gtcfc:10.11) (keggfc:14.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ1682 MJ1682 Methanococcus jannaschii 2190 -11540934 173171 heat shock protein x (cl:heat-shock protein htpx) (db:pir2.dat) (mp:rev1664869-1664015) H64509 H64509 Methanococcus jannaschii 2190 -11540934 248114 mj1682 heat shock protein htpx:possibly protease (db:genpept-bct1) (de:methanococcus jannaschii section 150 of 150 of the complete genome.) (nt:similar to gb:m58470 sp:p23894 pid:146412 gb:u00096) (le:5443) (re:6297) (di:complement) U67608 U67608 g1592249 Methanococcus jannaschii 2190 -11540934 6500737076 heat shock protein htpx:possibly protease:htpx:heat shock protein x (gtcfc:10.11) (keggfc:14.2) (tigrfc:12.2) (db:gtc-methanococcus jannaschii) MJ1682 MJ1682 Methanococcus jannaschii 2190 -11540934

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929574	20413	42569	2895	964

Description

5000698349 activator of:r-2-hydroxyglutaryl-coa dehydratase:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0004 MJ0004 Methanococcus jannaschii 2190 -11540935 118717 mj0004 (de:hypothetical protein mj0004) (db:swissprot) Y004_METJA Q60315 METHANOCOCCUS JANNASCHII 2190 -11540935 172904 r -2-hydroxyglutaryl-coa dehydratase activator homolog (cl:hgdc protein) (db:pir2.dat) (mp:for5378-6109) D64300 D64300 Methanococcus jannaschii 2190 -11540935 246438 mj0004 r -2-hydroxyglutaryl-coa dehydratase activator (db:genpept-bct1) (de:methanococcus jannaschii section 1 of 150 of the complete genome.) (nt:similar to sp:p11568 gb:x59645 pid:433932 percent) (le:5378) (re:6109) (di:direct) U67459 U67459 g1590817 Methanococcus jannaschii 2190 -11540935 6500737077 activator of:r-2-hydroxyglutaryl-coa dehydratase:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0004 MJ0004 Methanococcus jannaschii 2190 -11540935

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929579	20414	42570	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929586	20415	42571	186	61

Description

5000698350 glnb:nitrogen regulatory protein p-ii (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0059 MJ0059 Methanococcus jannaschii 2190 -11540936 118337 mj0059 (de:hypothetical nitrogen regulatory pii-like protein mj0059) (db:swissprot) Y059_METJA Q60381 METHANOCOCCUS JANNASCHII 2190 -11540936 174383 probable nitrogen regulatory protein p-ii (cl:regulatory protein p-ii) (db:pir2.dat) (mp:for58979-59317) C64307 C64307 Methanococcus jannaschii 2190 -11540936 246493 mj0059 nitrogen regulatory protein p-ii glnb (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:similar to gp:1279429 percent identity: 61.61;) (le:133) (re:471) (di:direct) U67464 U67464 g1592259 Methanococcus jannaschii 2190 -11540936 6500737078 glnb:nitrogen regulatory protein p-ii (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0059 MJ0059 Methanococcus jannaschii 2190 -11540936

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929587	20416	42572	789	262

Description

5000699412 regulatory protein:putative:moxr:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0079 MJ0079 Methanococcus jannaschii 2190 -11540937 118770 mj0079 (de:hypothetical protein mj0079) (db:swissprot) Y079_METJA Q60389 METHANOCOCCUS JANNASCHII 2190 -11540937 173207 hypothetical protein homolog mj0079 (db:pir2.dat) (mp:rev73806-72664) G64309 G64309 Methanococcus jannaschii 2190 -11540937 246513 mj0079 regulatory protein:putative moxr (db:genpept-bct1) (de:methanococcus jannaschii section 7 of 150 of the complete genome.) (nt:similar to gp:1223606 percent identity: 27.01;) (le:3528) (re:4670) (di:complement) U67465 U67465 g1590863 Methanococcus jannaschii 2190 -11540937 6500737079 regulatory protein:putative:moxr:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0079 MJ0079 Methanococcus jannaschii 2190 -11540937

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929588	20417	42573	237	78

Description

5000698351 transcriptional regulator:putative:transcriptional regulator (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0151 MJ0151 Methanococcus jannaschii 2190 -11540938 118647 mj0151 (de:hypothetical transcriptional regulator protein mj0151) (db:swissprot) Y151_METJA Q57615 METHANOCOCCUS JANNASCHII 2190 -11540938 174577 transcription regulator homolog (db:pir2.dat) (mp:for146595-147041) H64318 H64318 Methanococcus jannaschii 2190 -11540938 246586 mj0151 transcriptional regulator:putative (db:genpept-bct1) (de:methanococcus jannaschii section 14 of 150 of the complete genome.) (nt:similar to sp:p42180 percent identity: 51.00;) (le:3067) (re:3513) (di:direct) U67472 U67472 g1498922 Methanococcus jannaschii 2190 -11540938 6500737080 transcriptional regulator:putative:transcriptional regulator (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0151 MJ0151 Methanococcus jannaschii 2190 -11540938

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929605	20418	42574	1887	628

Description

5000699418 arsenical resistance operon repressor:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0229 MJ0229 Methanococcus jannaschii 2190 -11540939 500684988 mj0229 (de:hypothetical protein mj0229) (db:swissprot) Y229_METJA Q57682 METHANOCOCCUS JANNASCHII 2190 -11540939 173400 hypothetical protein mj0229 (db:pir2.dat) (mp:rev221136-220849) F64328 F64328 Methanococcus jannaschii 2190 -11540939 246664 mj0229 arsenical resistance operon repressor (db:genpept-bct1) (de:methanococcus jannaschii section 20 of 150 of the complete genome.) (nt:similar to gp:1652944 percent identity: 36.21;) (le:9605) (re:9892) (di:complement) U67478 U67478 g1499006 Methanococcus jannaschii 2190 -11540939 6500737081 arsenical resistance operon repressor:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0229 MJ0229 Methanococcus jannaschii 2190 -11540939

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929608	20419	42575	222	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929636	20420	42576	396	131

Description

5000698597 repressor protein:putative:yorfe:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0272 MJ0272 Methanococcus jannaschii 2190 -11540940 173420 hypothetical protein mj0272 (db:pir2.dat) (mp:for257413-257652) A64334 A64334 Methanococcus jannaschii 2190 -11540940 246707 mj0272 repressor protein:putative yorfe (db:genpept-bct1) (de:methanococcus jannaschii section 24 of 150 of the complete genome.) (nt:similar to gp:1536960 percent identity: 40.32;) (le:5633) (re:5872) (di:direct) U67482 U67482 g1590997 Methanococcus jannaschii 2190 -11540940 6500737082 repressor protein:putative:yorfe:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0272 MJ0272 Methanococcus jannaschii 2190 -11540940

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929650	20421	42577	747	248

Description

5000698352 transcriptional regulator:putative:hypothetical transcriptional regulator protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0300 MJ0300 Methanococcus jannaschii 2190 -11540941 500684955 mj0300 (de:hypothetical transcriptional regulator protein mj0300) (db:swissprot) Y300_METJA Q57748 METHANOCOCCUS JANNASCHII 2190 -11540941 174576 transcription regulator homolog (cl:transcription activator lysr-type) (db:pir2.dat) (mp:for283280-284170) E64337 E64337 Methanococcus jannaschii 2190 -11540941 246735 mj0300 transcriptional regulator:putative (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to gb:x73124 sp:p39647 pid:580884) (le:2081) (re:2971) (di:direct) U67485 U67485 g1591023 Methanococcus jannaschii 2190 -11540941 6500737083 transcriptional regulator:putative:hypothetical transcriptional regulator protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0300 MJ0300 Methanococcus jannaschii 2190 -11540941

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929651	20422	42578	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929657	20423	42579	3315	1104

Description

GTC ORF with score 90 to: (or:Anolis pulchellus) (fn:precursor of yolk proteins, serum transport) (db:genpept-vrt) (de:anolis pulchellus vitellogenin mrna, partial cds.) (nt:apvtg5; similar to chicken and xenopus phosvitin) (le:<1) (re:546) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929661	20424	42580	702	233

Description

5000698763 repressor protein:putative:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0529 MJ0529 Methanococcus jannaschii 2190 -11540942 118842 mj0529 (de:hypothetical protein mj0529) (db:swissprot) Y529_METJA Q57949 METHANOCOCCUS JANNASCHII 2190 -11540942 173576 hypothetical protein mj0529 (db:pir2.dat) (mp:rev466217-465519) A64366 A64366 Methanococcus jannaschii 2190 -11540942 246963 mj0529 repressor protein:putative (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to percent identity: 43.90; identified by) (le:4093) (re:4791) (di:complement) U67502 U67502 g1591232 Methanococcus jannaschii 2190 -11540942 6500737084 repressor protein:putative:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0529 MJ0529 Methanococcus jannaschii 2190 -11540942

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929662	20425	42581	612	203

Description

5000698782 putative iron dependant repressor:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0568 MJ0568 Methanococcus jannaschii 2190 -11540943 4000708347 mj0568 (de:hypothetical protein mj0568) (db:swissprot) Y568_METJA Q57988 METHANOCOCCUS JANNASCHII 2190 -11540943 173595 hypothetical protein mj0568 (cl:conserved hypothetical protein mj0568) (db:pir2.dat) (mp:for504849-505226) H64370 H64370 Methanococcus jannaschii 2190 -11540943 247002 mj0568 iron dependent repressor (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to gp:1777937 percent identity: 32.48;) (le:78) (re:455) (di:direct) U67506 U67506 g1592296 Methanococcus jannaschii 2190 -11540943 6500737085 putative iron dependant repressor:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0568 MJ0568 Methanococcus jannaschii 2190 -11540943

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929665	20426	42582	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929666	20427	42583	1602	533

Description

5000698308 rnase l inhibitor:hypothetical abc transporter atp-binding protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0719 MJ0719 Methanococcus jannaschii 2190 -11540944 117304 mj0719 (de:hypothetical abc transporter atp-binding protein mj0719) (db:swissprot) Y719_METJA Q58129 METHANOCOCCUS JANNASCHII 2190 -11540944 172927 abc transporter atp-binding protein (cl:atp-binding cassette homology) (db:pir2.dat) (mp:rev653873-652071) G64389 G64389 Methanococcus jannaschii 2190 -11540944 247153 mj0719 rnase l inhibitor (db:genpept-bct1) (de:methanococcus jannaschii section 60 of 150 of the complete genome.) (nt:similar to pir:s63672 percent identity: 48.74;) (le:8813) (re:10615) (di:complement) U67518 U67518 g1591435 Methanococcus jannaschii 2190 -11540944 6500737086 rnase l inhibitor:hypothetical abc transporter atp-binding protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0719 MJ0719 Methanococcus jannaschii 2190 -11540944

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929675	20428	42584	621	206

Description

5000698353 transcriptional regulator:putative:hypothetical transcriptional regulator protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0723 MJ0723 Methanococcus jannaschii 2190 -11540945 118648 mj0723 (de:hypothetical transcriptional regulator protein mj0723) (db:swissprot) Y723_METJA Q58133 METHANOCOCCUS JANNASCHII 2190 -11540945 174449 probable transcription regulator (cl:transcription regulator yugg) (db:pir2.dat) (mp:for656706-657176) C64390 C64390 Methanococcus jannaschii 2190 -11540945 247157 mj0723 transcriptional regulatory protein:asnc family (db:genpept-bct1) (de:methanococcus jannaschii section 61 of 150 of the complete genome.) (nt:similar to sp:p42180 percent identity: 50.96;) (le:2830) (re:3300) (di:direct) U67519 U67519 g1591440 Methanococcus jannaschii 2190 -11540945 6500737087 transcriptional regulator:putative:hypothetical transcriptional regulator protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0723 MJ0723 Methanococcus jannaschii 2190 -11540945

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929732	20429	42585	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929744	20430	42586	429	142

Description

5000698354 activator of:r-2-hydroxyglutaryl-coa dehydratase:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0800 MJ0800 Methanococcus jannaschii 2190 -11540946 118850 mj0800 (de:hypothetical protein mj0800) (db:swissprot) Y800_METJA Q58210 METHANOCOCCUS JANNASCHII 2190 -11540946 172905 r -2-hydroxyglutaryl-coa dehydratase activator homolog (db:pir2.dat) (mp:for723767-725014) H64399 H64399 Methanococcus jannaschii 2190 -11540946 247234 mj0800 r -2-hydroxyglutaryl-coa dehydratase activator (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:similar to sp:p11568 gb:x59645 pid:433932 percent) (le:7974) (re:9221) (di:direct) U67524 U67524 g1591496 Methanococcus jannaschii 2190 -11540946 6500737088 activator of:r-2-hydroxyglutaryl-coa dehydratase:hypothetical protein (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0800 MJ0800 Methanococcus jannaschii 2190 -11540946

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929748	20431	42587	504	167

Description

5000698355 chondro-6-sulfatase regulatory protein isolog:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0907 MJ0907 Methanococcus jannaschii 2190 -11540947 7500895654 mj0907 (de:hypothetical protein mj0907) (db:swissprot) Y907_METJA Q58317 METHANOCOCCUS JANNASCHII 2190 -11540947 173785 hypothetical protein mj0907 (db:pir2.dat) (mp:rev836931-836071) C64413 C64413 Methanococcus jannaschii 2190 -11540947 7500895656 mj0907 chondro-6-sulfatase regulatory protein isolog (db:genpept-bct1) (de:methanococcus jannaschii section 76 of 150 of the complete genome.) (nt:similar to sp:q02550 pid:143939 percent ident:) (le:2160) (re:3020) (di:complement) U67534 U67534 g1591581 Methanococcus jannaschii 2190 -11540947 6500737089 chondro-6-sulfatase regulatory protein isolog:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ0907 MJ0907 Methanococcus jannaschii 2190 -11540947 247341 mju67534 (le:836071) (re:836931) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0907 gn:mj0907 le:2160 re:3020 di:complement nt:identified by genemark; putative) U67534 U67534 g1591581 Methanococcus jannaschii 2190 -11540947

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929752	20432	42588	882	293

Description

5000698356 peripheral membrane protein u:phou:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1011 MJ1011 Methanococcus jannaschii 2190 -11540948 7500895823 mj1011 (de:hypothetical protein mj1011) (db:swissprot) YA11_METJA Q58417 METHANOCOCCUS JANNASCHII 2190 -11540948 173843 hypothetical protein mj1011 (db:pir2.dat) (mp:rev941862-941470) B64426 B64426 Methanococcus jannaschii 2190 -11540948 7500895825 mj1011 peripheral membrane protein u phou (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p07656 gb:k01992 gb:x02723) (le:9548) (re:9940) (di:complement) U67543 U67543 g1591670 Methanococcus jannaschii 2190 -11540948 6500737090 peripheral membrane protein u:phou:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1011 MJ1011 Methanococcus jannaschii 2190 -11540948 247444 mju67543 (le:941470) (re:941862) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1011 gn:mj1011 le:9548 re:9940 di:complement nt:identified by genemark; putative) U67543 U67543 g1591670 Methanococcus jannaschii 2190 -11540948

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929754	20433	42589	420	139

Description

6500737091 drag:mj1187 dinitrogenase reductase activating glycohydrolase:adp-ribosylglycohydrolase (gtcfc:10.2) (ec:3.2.-.-) (keggfc:14.1) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1187 MJ1187 Methanococcus jannaschii 2190 -11540949 172946 adp-ribosylglycohydrolase drag homolog (cl:adp-ribosylglycohydrolase) (db:pir2.dat) (mp:for1127126-1128031) C64448 C64448 Methanococcus jannaschii 2190 -11540949 247621 mj1187 dinitrogenase reductase activating (db:genpept-bct1) (de:methanococcus jannaschii section 102 of 150 of the complete genome.) (nt:similar to sp:p14300 gb:x16187 pid:46391 percent) (le:2036) (re:2941) (di:direct) U67560 U67560 g1591815 Methanococcus jannaschii 2190 -11540949 5000697861 (de:(mj1187) (pn:adp-ribosylglycohydrolase:drag) (gn:drag) (gtcfc:1.9:13.7) (ec:3.2.-.-) (keggfc:11.1) (tigrfc:5.7) (db:gtc-methanococcus jannaschii)) MJ1187 MJ1187 Methanococcus jannaschii 2190 10091411

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929758	20434	42590	519	172

Description

5000699120 putative transcriptional regulator:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1207 MJ1207 Methanococcus jannaschii 2190 -11540950 7500921422 mj1207 (de:hypothetical protein mj1207) (db:swissprot) YC07_METJA Q58604 METHANOCOCCUS JANNASCHII 2190 -11540950 173937 hypothetical protein mj1207 (cl:methanococcus jannaschii conserved hypothetical protein mj1207) (db:pir2.dat) (mp:for1150579-1151259) F64450 F64450 Methanococcus jannaschii 2190 -11540950 7500921424 mj1207 protease synthase and sporulation negative (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to gb:m36471 sp:p21340 pid:143284) (le:4357) (re:5037) (di:direct) U67562 U67562 g1591837 Methanococcus jannaschii 2190 -11540950 6500737092 putative transcriptional regulator:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1207 MJ1207 Methanococcus jannaschii 2190 -11540950 247640 mju67562 (le:1150579) (re:1151259) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1207 gn:mj1207 le:4357 re:5037 di:direct nt:identified by genemark; putative) U67562 U67562 g1591837 Methanococcus jannaschii 2190 -11540950

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929764	20435	42591	243	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929770	20436	42592	249	82

Description

5000698357 cadmium resistance protein:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1325 MJ1325 Methanococcus jannaschii 2190 -11540951 174006 hypothetical protein mj1325 (cl:arsenical resistance operon repressor) (db:pir2.dat) (mp:for1275430-1275699) D64465 D64465 Methanococcus jannaschii 2190 -11540951 247758 mj1325 cadmium resistance protein (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:similar to gb:l10909 sp:p37374 pid:152977 percent) (le:95) (re:364) (di:direct) U67573 U67573 g1592329 Methanococcus jannaschii 2190 -11540951 6500737093 cadmium resistance protein:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1325 MJ1325 Methanococcus jannaschii 2190 -11540951

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929774	20437	42593	1785	594

Description

5000698358 glnb:nitrogen regulatory protein p-ii (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1344 MJ1344 Methanococcus jannaschii 2190 -11540952 174384 glnb nitrogen regulatory protein p-ii (cl:regulatory protein p-ii) (db:pir2.dat) (mp:rev1291469-1291131) G64467 G64467 Methanococcus jannaschii 2190 -11540952 247777 mj1344 nitrogen regulatory protein p-ii glnb (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:similar to gp:1279429 percent identity: 59.82;) (le:5750) (re:6088) (di:complement) U67574 U67574 g1591986 Methanococcus jannaschii 2190 -11540952 6500737094 glnb:nitrogen regulatory protein p-ii (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1344 MJ1344 Methanococcus jannaschii 2190 -11540952

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929781	20438	42594	426	142

Description

5000698359 repressor protein:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1641 MJ1641 Methanococcus jannaschii 2190 -11540953 174203 hypothetical protein mj1641 (db:pir2.dat) (mp:rev1622665-1621802) G64504 G64504 Methanococcus jannaschii 2190 -11540953 248073 mj1641 repressor protein (db:genpept-bct1) (de:methanococcus jannaschii section 146 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p07656 gb:k01992 gb:x02723) (le:6872) (re:7735) (di:complement) U67604 U67604 g1500541 Methanococcus jannaschii 2190 -11540953 6500737095 repressor protein:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:9.1) (db:gtc-methanococcus jannaschii) MJ1641 MJ1641 Methanococcus jannaschii 2190 -11540953

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929785	20439	42595	2724	907

Description

GTC ORF with score 254 to: (sr:homo sapiens male bone marrow myeloblast cell_line:kg-1 cdna t) (db:genpept-pri2) (de:human mrna for kiaa0244 gene, partial cds.) (nt:similar to human transcription factor tfiis) (le:<1) (re:5174) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929787	20440	42596	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929789	20441	42597	432	143

Description

5000698175 dna-directed rna polymerase:subunit i:rpoi:dna-dependent rna polymerase:subunit i (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.1) (db:gtc-methanococcus jannaschii) MJ1390 MJ1390 Methanococcus jannaschii 2190 -11540954 5500685912 rpoi:mj1390 (ec:2.7.7.6) (de:dna-directed rna polymerase subunit i,) (db:swissprot) RPOI_METJA Q58785 METHANOCOCCUS JANNASCHII 2190 -11540954 173077 dna-directed rna polymerase:subunit i (ec:2.7.7.6) (db:pir2.dat) (mp:rev1338339-1338010) E64473 E64473 Methanococcus jannaschii 2190 -11540954 247823 mj1390 dna-directed rna polymerase:subunit i rpoi (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to gb:l77117 sp:q58785 pid:1592036 percent) (le:9608) (re:9937) (di:complement) U67578 U67578 g1592036 Methanococcus jannaschii 2190 -11540954 6500737096 dna-directed rna polymerase:subunit i:rpoi:dna-dependent rna polymerase:subunit i (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.1) (db:gtc-methanococcus jannaschii) MJ1390 MJ1390 Methanococcus jannaschii 2190 -11540954

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929790	20442	42598	423	140

Description

5000698177 putative transcription termination-antitermination factor:nusg:putative transcription antitermination protein nusg (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ0372 MJ0372 Methanococcus jannaschii 2190 -11540955 4000709359 mj0372 (de:putative transcription antitermination protein nusg) (db:swissprot) NUSG_METJA Q57818 METHANOCOCCUS JANNASCHII 2190 -11540955 174574 transcription termination-antitermination factor nusg homolog (cl:transcription termination factor nusg) (db:pir2.dat) (mp:for337798-338241) D64346 D64346 Methanococcus jannaschii 2190 -11540955 246806 mj0372 lsu ribosomal protein l24a (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to pid:1217623 sp:q46494 percent identity:) (le:3397) (re:3840) (di:direct) U67490 U67490 g1591079 Methanococcus jannaschii 2190 -11540955 6500737097 putative transcription termination-antitermination factor:nusg:putative transcription antitermination protein nusg (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ0372 MJ0372 Methanococcus jannaschii 2190 -11540955

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929806	20443	42599	951	316

Description

5000698178 transcription initiation factor iid:tata-box binding protein:tata-binding transcription initiation factor (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ0507 MJ0507 Methanococcus jannaschii 2190 -11540956 5500686051 tbp:mj0507 (de:protein) (tbp)) (db:swissprot) TF2D_METJA Q57930 METHANOCOCCUS JANNASCHII 2190 -11540956 174559 tata-binding transcription initiation factor (cl:transcription initiation factor iid) (db:pir2.dat) (mp:rev448280-447729) C64363 C64363 Methanococcus jannaschii 2190 -11540956 246941 mj0507 transcription initiation factor iid:tata-box (db:genpept-bct1) (de:methanococcus jannaschii section 42 of 150 of the complete genome.) (nt:similar to pid:886020 sp:q55031 percent identity:) (le:6434) (re:6985) (di:complement) U67500 U67500 g1591210 Methanococcus jannaschii 2190 -11540956 6500737098 transcription initiation factor iid:tata-box binding protein:tata-binding transcription initiation factor (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ0507 MJ0507 Methanococcus jannaschii 2190 -11540956

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929807	20444	42600	894	297

Description

5000698900 putative transcription initiation factor:tfiie:subunit alpha:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ0777 MJ0777 Methanococcus jannaschii 2190 -11540957 173710 hypothetical protein mj0777 (cl:hypothetical protein mj0777) (db:pir2.dat) (mp:for698470-699051) A64397 A64397 Methanococcus jannaschii 2190 -11540957 5500686390 mj0777 (de:hypothetical protein mj0777) (db:swissprot) Y777_METJA Q58187 METHANOCOCCUS JANNASCHII 2190 -11540957 6500737099 putative transcription initiation factor:tfiie:subunit alpha:m (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ0777 MJ0777 Methanococcus jannaschii 2190 -11540957 247211 mju67522 (le:698470) (re:699051) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0777 gn:mj0777 le:11783 re:12364 di:direct nt:identified by genemark; putative) U67522 U67522 g1591479 Methanococcus jannaschii 2190 -11540957

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929812	20445	42601	1431	476

Description

5000698179 tfiib:transcription initiation factor iib (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ0782 MJ0782 Methanococcus jannaschii 2190 -11540958 5500686049 mj0782 (de:transcription initiation factor iib homolog (tfiib)) (db:swissprot) TF2B_METJA Q58192 METHANOCOCCUS JANNASCHII 2190 -11540958 174571 transcription initiation factor iib homolog intein-containing (cl:methanococcus transcription initiation factor iib homolog:transcription initiation factor iib homology) (db:pir2.dat) (mp:rev705789-703768) F64397 F64397 Methanococcus jannaschii 2190 -11540958 247216 mj0782 transcription initiation factor iib tfiib (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to sp:p29095 gb:x70668 pid:45954 percent) (le:17081) (re:19102) (di:complement) U67522 U67522 g1591481 Methanococcus jannaschii 2190 -11540958 6500737100 tfiib:transcription initiation factor iib (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ0782 MJ0782 Methanococcus jannaschii 2190 -11540958

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929825	20446	42602	213	70

Description

5000698181 putative transcription termination-antitermination factor:nusa:nusa protein homolog (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ1045 MJ1045 Methanococcus jannaschii 2190 -11540959 120676 mj1045 (de:nusa protein homolog) (db:swissprot) NUSA_METJA Q58447 METHANOCOCCUS JANNASCHII 2190 -11540959 174573 probable transcription termination factor nusa (cl:archaebacterial probable transcription termination factor nusa) (db:pir1.dat) (mp:for981967-982518) D64430 D64430 Methanococcus jannaschii 2190 -11540959 247478 mj1045 putative transcription (db:genpept-bct1) (de:methanococcus jannaschii section 89 of 150 of the complete genome.) (nt:similar to sp:p14026 gb:x15970 pid:44783 percent) (le:7444) (re:7995) (di:direct) U67547 U67547 g1591699 Methanococcus jannaschii 2190 -11540959 6500737101 putative transcription termination-antitermination factor:nusa:nusa protein homolog (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ1045 MJ1045 Methanococcus jannaschii 2190 -11540959

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929826	20447	42603	861	287

Description

5000698182 transcription-associated protein:transcription-associated protein::tfiis (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ1148 MJ1148 Methanococcus jannaschii 2190 -11540960 7500890663 rpom:mj1148 (ec:2.7.7.6) (de:dna-directed rna polymerase subunit m,) (db:swissprot) RPOM_METJA Q58548 METHANOCOCCUS JANNASCHII 2190 -11540960 174575 transcription-associated protein tfiis homolog (cl:transcription elongation factor tfiis) (db:pir2.dat) (mp:rev1088119-1087793) C64443 C64443 Methanococcus jannaschii 2190 -11540960 7500890665 mj1148 transcription-associated protein tfiis (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:similar to gb:l27650 pid:443693 percent ident:) (le:3071) (re:3397) (di:complement) U67557 U67557 g1591780 Methanococcus jannaschii 2190 -11540960 6500737102 transcription-associated protein:transcription-associated protein::tfiis (gtcfc:10.2) (keggfc:14.2) (tigrfc:11.2) (db:gtc-methanococcus jannaschii) MJ1148 MJ1148 Methanococcus jannaschii 2190 -11540960 247581 mju67557 (le:1087793) (re:1088119) (di:direct) (de:or:methanococcus jannaschii pn:transcription-associated protein, ('tfiis') gn:mj1148 le:3071 re:3397 di:complement nt:similar to a55263 percent identity: 58.2;) U67557 U67557 g1591780 Methanococcus jannaschii 2190 -11540960

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929829	20448	42604	753	250

Description

5000698184 ssu ribosomal protein s15p:rpso:30s ribosomal protein s15p/s13e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0036 MJ0036 Methanococcus jannaschii 2190 -11540961 174510 ribosomal protein s13.er (cl:rat ribosomal protein s13:eubacterial ribosomal protein s15 homology) (db:pir2.dat) (mp:for37524-38012) D64304 D64304 Methanococcus jannaschii 2190 -11540961 6500737103 ssu ribosomal protein s15p:rpso:30s ribosomal protein s15p/s13e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0036 MJ0036 Methanococcus jannaschii 2190 -11540961 97042 rs15_metja (de:30s ribosomal protein s15p/s13e.) P54012 P54012 Methanococcus jannaschii 2190 -11540961 246470 mju67462 (le:37524) (re:38012) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein s13 gn:mj0036 le:4048 re:4536 di:direct nt:similar to p14015 percent identity: 49.3;) U67462 U67462 g1590839 Methanococcus jannaschii 2190 -11540961

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929832	20449	42605	720	239

Description

5000698185 lsu ribosomal protein l21e:50s ribosomal protein l21e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0040 MJ0040 Methanococcus jannaschii 2190 -11540962 174489 ribosomal protein l21 (cl:haloarcula ribosomal protein hl31) (db:pir2.dat) (mp:rev40454-40098) H64304 H64304 Methanococcus jannaschii 2190 -11540962 6500737104 lsu ribosomal protein l21e:50s ribosomal protein l21e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0040 MJ0040 Methanococcus jannaschii 2190 -11540962 94963 rl21_metja (de:50s ribosomal protein l21e.) P54013 P54013 Methanococcus jannaschii 2190 -11540962 246474 mju67462 (le:40098) (re:40454) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein l21 gn:mj0040 le:6622 re:6978 di:complement nt:similar to p12734 percent identity: 54.4;) U67462 U67462 g1590841 Methanococcus jannaschii 2190 -11540962

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929833	20450	42606	273	90

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929838	20451	42607	459	152

Description

5000698186 lsu ribosomal protein l31e:50s ribosomal protein l31e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0049 MJ0049 Methanococcus jannaschii 2190 -11540963 95151 mj0049 (de:50s ribosomal protein l31e) (db:swissprot) RL31_METJA P54009 METHANOCOCCUS JANNASCHII 2190 -11540963 174496 ribosomal protein l31 (cl:rat ribosomal protein l31) (db:pir2.dat) (mp:rev50469-50206) A64306 A64306 Methanococcus jannaschii 2190 -11540963 246483 mj0049 lsu ribosomal protein l31e (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to sp:p04649 pid:1431090 pid:4390) (le:1494) (re:1757) (di:complement) U67463 U67463 g1590847 Methanococcus jannaschii 2190 -11540963 6500737105 lsu ribosomal protein l31e:50s ribosomal protein l31e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0049 MJ0049 Methanococcus jannaschii 2190 -11540963

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929840	20452	42608	222	73

Description

5000698187 lsu ribosomal protein l37e:50s ribosomal protein l37e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0098 MJ0098 Methanococcus jannaschii 2190 -11540964 95253 mj0098 (de:50s ribosomal protein l37e) (db:swissprot) RL37_METJA P54011 METHANOCOCCUS JANNASCHII 2190 -11540964 174499 ribosomal protein l37 (cl:rat ribosomal protein l37) (db:pir2.dat) (mp:rev91857-91672) B64312 B64312 Methanococcus jannaschii 2190 -11540964 246532 mj0098 lsu ribosomal protein l37e (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:similar to gp:1016018 percent identity: 52.54;) (le:2168) (re:2353) (di:complement) U67467 U67467 g1590876 Methanococcus jannaschii 2190 -11540964 6500737106 lsu ribosomal protein l37e:50s ribosomal protein l37e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0098 MJ0098 Methanococcus jannaschii 2190 -11540964

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929843	20453	42609	276	91

Description

5000698188 lsu ribosomal protein l3p:rplc:50s ribosomal protein l3p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0176 MJ0176 Methanococcus jannaschii 2190 -11540965 95296 mj0176 (de:50s ribosomal protein l3p) (db:swissprot) RL3_METJA P54014 METHANOCOCCUS JANNASCHII 2190 -11540965 128902 ribosomal protein l3.er (cl:rat ribosomal protein l3) (db:pir1.dat) (mp:for178423-179430) A64322 A64322 Methanococcus jannaschii 2190 -11540965 246611 mj0176 lsu ribosomal protein l3p rplc (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to percent identity: 46.08; identified by) (le:7700) (re:8707) (di:direct) U67474 U67474 g1590928 Methanococcus jannaschii 2190 -11540965 6500737107 lsu ribosomal protein l3p:rplc:50s ribosomal protein l3p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0176 MJ0176 Methanococcus jannaschii 2190 -11540965

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929845	20454	42610	519	172

Description

5000698189 lsu ribosomal protein l4p:rpld:50s ribosomal protein l4/l1e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0177 MJ0177 Methanococcus jannaschii 2190 -11540966 95366 mj0177 (de:50s ribosomal protein l4/l1e) (db:swissprot) RL4_METJA P54015 METHANOCOCCUS JANNASCHII 2190 -11540966 174500 ribosomal protein l4 (cl:rat ribosomal protein l4) (db:pir2.dat) (mp:for179472-180230) B64322 B64322 Methanococcus jannaschii 2190 -11540966 246612 mj0177 lsu ribosomal protein l4p rpld (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to sp:p12735 pid:148802 percent identity:) (le:8749) (re:9507) (di:direct) U67474 U67474 g1498950 Methanococcus jannaschii 2190 -11540966 6500737108 lsu ribosomal protein l4p:rpld:50s ribosomal protein l4/l1e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0177 MJ0177 Methanococcus jannaschii 2190 -11540966

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929850	20455	42611	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929852	20456	42612	303	100

Description

5000698190 lsu ribosomal protein l23p:rplw:50s ribosomal protein l23p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0178 MJ0178 Methanococcus jannaschii 2190 -11540967 95002 mj0178 (de:50s ribosomal protein l23p) (db:swissprot) RL23_METJA P54016 METHANOCOCCUS JANNASCHII 2190 -11540967 174491 ribosomal protein l23 (cl:escherichia coli ribosomal protein l23) (db:pir1.dat) (mp:for180264-180524) C64322 C64322 Methanococcus jannaschii 2190 -11540967 246613 mj0178 lsu ribosomal protein l23p rplw (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to sp:p10143 gb:y00772 pid:44745 percent) (le:9541) (re:9801) (di:direct) U67474 U67474 g1498951 Methanococcus jannaschii 2190 -11540967 6500737109 lsu ribosomal protein l23p:rplw:50s ribosomal protein l23p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0178 MJ0178 Methanococcus jannaschii 2190 -11540967

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929856	20457	42613	882	293

Description

5000698191 lsu ribosomal protein l2p:rplb:50s ribosomal protein l2p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0179 MJ0179 Methanococcus jannaschii 2190 -11540968 174488 ribosomal protein l2 (cl:escherichia coli ribosomal protein l2) (db:pir2.dat) (mp:for180572-181312) D64322 D64322 Methanococcus jannaschii 2190 -11540968 6500737110 lsu ribosomal protein l2p:rplb:50s ribosomal protein l2p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0179 MJ0179 Methanococcus jannaschii 2190 -11540968 95116 rl2_metja (de:50s ribosomal protein l2p.) P54017 P54017 Methanococcus jannaschii 2190 -11540968 246614 mju67474 (le:180572) (re:181312) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein l2 gn:mj0179 le:9849 re:10589 di:direct nt:similar to p21479 percent identity: 73.9;) U67474 U67474 g1592271 Methanococcus jannaschii 2190 -11540968

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929887	20458	42614	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929907	20459	42615	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929908	20460	42616	603	200

Description

5000698192 ssu ribosomal protein s19p:rpss:30s ribosomal protein s19p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0180 MJ0180 Methanococcus jannaschii 2190 -11540969 97116 mj0180 (de:30s ribosomal protein s19p) (db:swissprot) RS19_METJA P54018 METHANOCOCCUS JANNASCHII 2190 -11540969 174514 ribosomal protein s19 (cl:escherichia coli ribosomal protein s19) (db:pir2.dat) (mp:for181398-181856) E64322 E64322 Methanococcus jannaschii 2190 -11540969 246615 mj0180 ssu ribosomal protein s19p rpss (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:similar to sp:p20284 pid:148805 percent identity:) (le:68) (re:526) (di:direct) U67475 U67475 g1592272 Methanococcus jannaschii 2190 -11540969 6500737111 ssu ribosomal protein s19p:rpss:30s ribosomal protein s19p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0180 MJ0180 Methanococcus jannaschii 2190 -11540969

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929911	20461	42617	801	266

Description

5000698193 ssu ribosomal protein s13p:rpsm:30s ribosomal protein s13p/s18e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0189 MJ0189 Methanococcus jannaschii 2190 -11540970 174513 ribosomal protein s18 (cl:escherichia coli ribosomal protein s13) (db:pir2.dat) (mp:for187033-187593) F64323 F64323 Methanococcus jannaschii 2190 -11540970 6500737112 ssu ribosomal protein s13p:rpsm:30s ribosomal protein s13p/s18e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0189 MJ0189 Methanococcus jannaschii 2190 -11540970 96994 rs13_metja (de:30s ribosomal protein s13p/s18e.) P54019 P54019 Methanococcus jannaschii 2190 -11540970 246624 mju67475 (le:187033) (re:187593) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein s18 gn:mj0189 le:5703 re:6263 di:direct nt:similar to p34788 percent identity: 42.3;) U67475 U67475 g1592275 Methanococcus jannaschii 2190 -11540970

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929912	20462	42618	2031	676

Description

5000698194 ssu ribosomal protein s4p:rpsd:30s ribosomal protein s4p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0190 MJ0190 Methanococcus jannaschii 2190 -11540971 97323 mj0190 (de:30s ribosomal protein s4p) (db:swissprot) RS4_METJA P54020 METHANOCOCCUS JANNASCHII 2190 -11540971 174522 ribosomal protein s4 (cl:rat ribosomal protein s9) (db:pir2.dat) (mp:for187651-188214) G64323 G64323 Methanococcus jannaschii 2190 -11540971 246625 mj0190 ssu ribosomal protein s4p rpsd (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:similar to gb:x80194 sp:p39467 pid:517288 percent) (le:6321) (re:6884) (di:direct) U67475 U67475 g1498964 Methanococcus jannaschii 2190 -11540971 6500737113 ssu ribosomal protein s4p:rpsd:30s ribosomal protein s4p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0190 MJ0190 Methanococcus jannaschii 2190 -11540971

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929913	20463	42619	216	71

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929936	20464	42620	297	98

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929954	20465	42621	315	105

Description

5000698195 ssu ribosomal protein s11p:rpsk:30s ribosomal protein s11p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0191 MJ0191 Methanococcus jannaschii 2190 -11540972 96926 mj0191 (de:30s ribosomal protein s11p) (db:swissprot) RS11_METJA P54021 METHANOCOCCUS JANNASCHII 2190 -11540972 174509 ribosomal protein s11 (cl:escherichia coli ribosomal protein s11) (db:pir2.dat) (mp:for188240-188629) H64323 H64323 Methanococcus jannaschii 2190 -11540972 246626 mj0191 ssu ribosomal protein s11p rpsk (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:similar to sp:p10788 gb:m87833 pid:148772 percent) (le:6910) (re:7299) (di:direct) U67475 U67475 g1590936 Methanococcus jannaschii 2190 -11540972 6500737114 ssu ribosomal protein s11p:rpsk:30s ribosomal protein s11p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0191 MJ0191 Methanococcus jannaschii 2190 -11540972

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929959	20466	42622	474	157

Description

5000698196 lsu ribosomal protein l18e:50s ribosomal protein l18e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0193 MJ0193 Methanococcus jannaschii 2190 -11540973 174495 ribosomal protein l29e (cl:haloarcula ribosomal protein hl29) (db:pir2.dat) (mp:for189240-189659) B64324 B64324 Methanococcus jannaschii 2190 -11540973 6500737115 lsu ribosomal protein l18e:50s ribosomal protein l18e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0193 MJ0193 Methanococcus jannaschii 2190 -11540973 92793 r18e_metja (de:50s ribosomal protein l18e.) P54022 P54022 Methanococcus jannaschii 2190 -11540973 246628 mju67475 (le:189240) (re:189659) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein l29e gn:mj0193 le:7910 re:8329 di:direct nt:similar to p12733 percent identity: 48.7;) U67475 U67475 g1590938 Methanococcus jannaschii 2190 -11540973

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929963	20467	42623	459	152

Description

5000698197 lsu ribosomal protein l13p:rplm:50s ribosomal protein l13p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0194 MJ0194 Methanococcus jannaschii 2190 -11540974 174482 ribosomal protein l13 (cl:escherichia coli ribosomal protein l13) (db:pir2.dat) (mp:for189682-190104) C64324 C64324 Methanococcus jannaschii 2190 -11540974 6500737116 lsu ribosomal protein l13p:rplm:50s ribosomal protein l13p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0194 MJ0194 Methanococcus jannaschii 2190 -11540974 94779 rl13_metja (de:50s ribosomal protein l13p.) P54023 P54023 Methanococcus jannaschii 2190 -11540974 246629 mju67475 (le:189682) (re:190104) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein l13 gn:mj0194 le:8352 re:8774 di:direct nt:similar to p29198 percent identity: 45.5;) U67475 U67475 g1590939 Methanococcus jannaschii 2190 -11540974

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929964	20468	42624	516	171

Description

5000698198 ssu ribosomal protein s9p:rpsi:30s ribosomal protein s9p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0195 MJ0195 Methanococcus jannaschii 2190 -11540975 97442 mj0195 (de:30s ribosomal protein s9p) (db:swissprot) RS9_METJA P54024 METHANOCOCCUS JANNASCHII 2190 -11540975 174531 ribosomal protein s9 (cl:escherichia coli ribosomal protein s9) (db:pir2.dat) (mp:for190114-190524) D64324 D64324 Methanococcus jannaschii 2190 -11540975 246630 mj0195 ssu ribosomal protein s9p rpsi (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:similar to sp:p05763 gb:m76567 pid:148778 percent) (le:8784) (re:9194) (di:direct) U67475 U67475 g1590940 Methanococcus jannaschii 2190 -11540975 6500737117 ssu ribosomal protein s9p:rpsi:30s ribosomal protein s9p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0195 MJ0195 Methanococcus jannaschii 2190 -11540975

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929965	20469	42625	897	298

Description

5000698199 lsu ribosomal protein l41e:50s ribosomal protein l41e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0242 MJ0242 Methanococcus jannaschii 2190 -11540976 95334 mj0242 (de:50s ribosomal protein l41e) (db:swissprot) RL41_METJA P54025 METHANOCOCCUS JANNASCHII 2190 -11540976 174476 ribosomal protein hg12 (cl:saccharomyces cerevisiae ribosomal protein yl41) (db:pir2.dat) (mp:rev232198-232130) C64330 C64330 Methanococcus jannaschii 2190 -11540976 246677 mj0242 lsu ribosomal protein l41e (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to sp:p28751 percent identity: 63.64;) (le:59) (re:127) (di:complement) U67480 U67480 g1592277 Methanococcus jannaschii 2190 -11540976 6500737118 lsu ribosomal protein l41e:50s ribosomal protein l41e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0242 MJ0242 Methanococcus jannaschii 2190 -11540976

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929971	20470	42626	1206	401

Description

5000698200 ssu ribosomal protein s17e:30s ribosomal protein s17e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0245 MJ0245 Methanococcus jannaschii 2190 -11540977 92791 mj0245 (de:30s ribosomal protein s17e) (db:swissprot) R17E_METJA P54026 METHANOCOCCUS JANNASCHII 2190 -11540977 174512 ribosomal protein s17b (cl:ribosomal protein hs26) (db:pir2.dat) (mp:rev233653-233462) F64330 F64330 Methanococcus jannaschii 2190 -11540977 246680 mj0245 ssu ribosomal protein s17e (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to sp:p02407 sp:p14127 pid:172458) (le:1391) (re:1582) (di:complement) U67480 U67480 g1590978 Methanococcus jannaschii 2190 -11540977 6500737119 ssu ribosomal protein s17e:30s ribosomal protein s17e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0245 MJ0245 Methanococcus jannaschii 2190 -11540977

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929980	20471	42627	270	89

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501929982	20472	42628	288	95

Description

5000698201 lsu ribosomal protein l44e:50s ribosomal protein l44e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0249 MJ0249 Methanococcus jannaschii 2190 -11540978 95348 mj0249 (de:50s ribosomal protein l44e) (db:swissprot) RL44_METJA P54027 METHANOCOCCUS JANNASCHII 2190 -11540978 174502 ribosomal protein l44 (cl:ribosomal protein hla) (db:pir2.dat) (mp:for235632-235916) B64331 B64331 Methanococcus jannaschii 2190 -11540978 246684 mj0249 lsu ribosomal protein l44e (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to sp:p32411 percent identity: 38.71;) (le:3561) (re:3845) (di:direct) U67480 U67480 g1499028 Methanococcus jannaschii 2190 -11540978 6500737120 lsu ribosomal protein l44e:50s ribosomal protein l44e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0249 MJ0249 Methanococcus jannaschii 2190 -11540978

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930007	20473	42629	558	185

Description

5000698202 ssu ribosomal protein s27e:30s ribosomal protein s27e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0250 MJ0250 Methanococcus jannaschii 2190 -11540979 97213 mj0250 (de:30s ribosomal protein s27e) (db:swissprot) RS27_METJA P54028 METHANOCOCCUS JANNASCHII 2190 -11540979 174517 ribosomal protein s27 (cl:rat ribosomal protein s27) (db:pir2.dat) (mp:for235984-236172) C64331 C64331 Methanococcus jannaschii 2190 -11540979 246685 mj0250 ssu ribosomal protein s27e (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to sp:p35997 sp:p38711 pid:2131116) (le:3913) (re:4101) (di:direct) U67480 U67480 g1499029 Methanococcus jannaschii 2190 -11540979 6500737121 ssu ribosomal protein s27e:30s ribosomal protein s27e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0250 MJ0250 Methanococcus jannaschii 2190 -11540979

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930023	20474	42630	543	180

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930028	20475	42631	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930031	20476	42632	780	259

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930035	20477	42633	303	100

Description

5000698203 ssu ribosomal protein s10p:rpsj:30s ribosomal protein s10p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0322 MJ0322 Methanococcus jannaschii 2190 -11540980 96897 mj0322 (de:30s ribosomal protein s10p) (db:swissprot) RS10_METJA P54029 METHANOCOCCUS JANNASCHII 2190 -11540980 174508 ribosomal protein s10 (cl:escherichia coli ribosomal protein s10) (db:pir2.dat) (mp:rev299460-299140) C64340 C64340 Methanococcus jannaschii 2190 -11540980 246757 mj0322 ssu ribosomal protein s10p rpsj (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:similar to sp:p26753 gb:x59857 pid:45948 percent) (le:8062) (re:8382) (di:complement) U67486 U67486 g1591041 Methanococcus jannaschii 2190 -11540980 6500737122 ssu ribosomal protein s10p:rpsj:30s ribosomal protein s10p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0322 MJ0322 Methanococcus jannaschii 2190 -11540980

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930044	20478	42634	981	326

Description

5000698204 lsu ribosomal protein l11p:rplk:50s ribosomal protein l11p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0373 MJ0373 Methanococcus jannaschii 2190 -11540981 94740 mj0373 (de:50s ribosomal protein l11p) (db:swissprot) RL11_METJA P54030 METHANOCOCCUS JANNASCHII 2190 -11540981 174480 ribosomal protein l11 (cl:escherichia coli ribosomal protein l11) (db:pir2.dat) (mp:for338339-338824) E64346 E64346 Methanococcus jannaschii 2190 -11540981 246807 mj0373 lsu ribosomal protein l11p rplk (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to sp:p14122 gb:x51430 pid:43603 percent) (le:3938) (re:4423) (di:direct) U67490 U67490 g1591080 Methanococcus jannaschii 2190 -11540981 6500737123 lsu ribosomal protein l11p:rplk:50s ribosomal protein l11p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0373 MJ0373 Methanococcus jannaschii 2190 -11540981

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930084	20479	42635	1218	405

Description

5000698205 ssu ribosomal protein s27ae:30s ribosomal protein s27ae (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0393 MJ0393 Methanococcus jannaschii 2190 -11540982 92828 mj0393 (de:30s ribosomal protein s27ae) (db:swissprot) R27A_METJA P54031 METHANOCOCCUS JANNASCHII 2190 -11540982 174518 ribosomal protein s27a (cl:ribosomal protein s27a:ribosomal protein s27a homology) (db:pir2.dat) (mp:rev356992-356810) A64349 A64349 Methanococcus jannaschii 2190 -11540982 246827 mj0393 ssu ribosomal protein s27ae (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:similar to sp:p37165 percent identity: 58.33;) (le:1087) (re:1269) (di:complement) U67492 U67492 g1591098 Methanococcus jannaschii 2190 -11540982 6500737124 ssu ribosomal protein s27ae:30s ribosomal protein s27ae (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0393 MJ0393 Methanococcus jannaschii 2190 -11540982

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930090	20480	42636	660	219

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930095	20481	42637	828	275

Description

5000698206 ssu ribosomal protein s24e:30s ribosomal protein s24e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0394 MJ0394 Methanococcus jannaschii 2190 -11540983 97189 mj0394 (de:30s ribosomal protein s24e) (db:swissprot) RS24_METJA P54032 METHANOCOCCUS JANNASCHII 2190 -11540983 174516 ribosomal protein s24 (cl:rat ribosomal protein s24) (db:pir2.dat) (mp:rev357297-356992) B64349 B64349 Methanococcus jannaschii 2190 -11540983 246828 mj0394 ssu ribosomal protein s24e (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:similar to sp:p19953 gb:x70117 pid:312779 percent) (le:1269) (re:1574) (di:complement) U67492 U67492 g1591099 Methanococcus jannaschii 2190 -11540983 6500737125 ssu ribosomal protein s24e:30s ribosomal protein s24e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0394 MJ0394 Methanococcus jannaschii 2190 -11540983

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930116	20482	42638	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930120	20483	42639	288	95

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930125	20484	42640	303	100

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930133	20485	42641	309	102

Description

5000698207 lsu ribosomal protein l22p:rplv:50s ribosomal protein l22p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0460 MJ0460 Methanococcus jannaschii 2190 -11540984 94983 mj0460 (de:50s ribosomal protein l22p) (db:swissprot) RL22_METJA P54033 METHANOCOCCUS JANNASCHII 2190 -11540984 174490 ribosomal protein l22 (cl:rat ribosomal protein l17) (db:pir2.dat) (mp:for410805-411275) D64357 D64357 Methanococcus jannaschii 2190 -11540984 246894 mj0460 lsu ribosomal protein l22p rplv (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p10970 gb:j05222 pid:148806 percent) (le:952) (re:1422) (di:direct) U67497 U67497 g1591162 Methanococcus jannaschii 2190 -11540984 6500737126 lsu ribosomal protein l22p:rplv:50s ribosomal protein l22p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0460 MJ0460 Methanococcus jannaschii 2190 -11540984

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930139	20486	42642	639	212

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930140	20487	42643	945	314

Description

5000698208 ssu ribosomal protein s3p:rpsc:30s ribosomal protein s3p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0461 MJ0461 Methanococcus jannaschii 2190 -11540985 97290 mj0461 (de:30s ribosomal protein s3p) (db:swissprot) RS3_METJA P54034 METHANOCOCCUS JANNASCHII 2190 -11540985 174519 ribosomal protein s3 (cl:rat ribosomal protein s3) (db:pir2.dat) (mp:for411301-411927) E64357 E64357 Methanococcus jannaschii 2190 -11540985 246895 mj0461 ssu ribosomal protein s3p rpsc (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p20281 pid:148807 percent identity:) (le:1448) (re:2074) (di:direct) U67497 U67497 g1591163 Methanococcus jannaschii 2190 -11540985 6500737127 ssu ribosomal protein s3p:rpsc:30s ribosomal protein s3p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0461 MJ0461 Methanococcus jannaschii 2190 -11540985

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930141	20488	42644	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930145	20489	42645	183	60

Description

GTC ORF with score 238 to: (sr:hemicentrotus pulcherrimus early pluteus larva) (db:genpept-inv) (de:cyclophilin (hemicentrotus pulcherrimus, early pluteus larva, mrna,1755 nt).) (nt:this sequence comes from fig. 1.) (le:51) (re:545) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930156	20490	42646	792	263

Description

5000698209 lsu ribosomal protein l29p:rpmc:50s ribosomal protein l29p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0462 MJ0462 Methanococcus jannaschii 2190 -11540986 95081 mj0462 (de:50s ribosomal protein l29p) (db:swissprot) RL29_METJA P54035 METHANOCOCCUS JANNASCHII 2190 -11540986 174494 ribosomal protein l29 (cl:escherichia coli ribosomal protein l29) (db:pir2.dat) (mp:for411940-412152) F64357 F64357 Methanococcus jannaschii 2190 -11540986 246896 mj0462 lsu ribosomal protein l29p rpmc (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p22665 pid:2425183 percent identity:) (le:2087) (re:2299) (di:direct) U67497 U67497 g1591164 Methanococcus jannaschii 2190 -11540986 6500737128 lsu ribosomal protein l29p:rpmc:50s ribosomal protein l29p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0462 MJ0462 Methanococcus jannaschii 2190 -11540986

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930159	20491	42647	183	60

Description

5000698210 ssu ribosomal protein s17p:rpsq:30s ribosomal protein s17p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0465 MJ0465 Methanococcus jannaschii 2190 -11540987 97082 mj0465 (de:30s ribosomal protein s17p) (db:swissprot) RS17_METJA P54036 METHANOCOCCUS JANNASCHII 2190 -11540987 128804 ribosomal protein s17 (cl:escherichia coli ribosomal protein s17) (db:pir1.dat) (mp:for413128-413481) A64358 A64358 Methanococcus jannaschii 2190 -11540987 246899 mj0465 ssu ribosomal protein s17p rpsq (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14042 pid:44757 percent identity:) (le:3275) (re:3628) (di:direct) U67497 U67497 g1591167 Methanococcus jannaschii 2190 -11540987 6500737129 ssu ribosomal protein s17p:rpsq:30s ribosomal protein s17p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0465 MJ0465 Methanococcus jannaschii 2190 -11540987

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930163	20492	42648	240	79

Description

5000698211 lsu ribosomal protein l14p:rpln:50s ribosomal protein l14p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0466 MJ0466 Methanococcus jannaschii 2190 -11540988 94796 mj0466 (de:50s ribosomal protein l14p) (db:swissprot) RL14_METJA P54037 METHANOCOCCUS JANNASCHII 2190 -11540988 174483 ribosomal protein l14 (cl:escherichia coli ribosomal protein l14) (db:pir2.dat) (mp:for413514-413912) B64358 B64358 Methanococcus jannaschii 2190 -11540988 246900 mj0466 lsu ribosomal protein l14p rpln (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14031 pid:44758 percent identity:) (le:3661) (re:4059) (di:direct) U67497 U67497 g1591168 Methanococcus jannaschii 2190 -11540988 6500737130 lsu ribosomal protein l14p:rpln:50s ribosomal protein l14p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0466 MJ0466 Methanococcus jannaschii 2190 -11540988

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930172	20493	42649	189	62

Description

5000698212 lsu ribosomal protein l24p:rplx:50s ribosomal protein l24p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0467 MJ0467 Methanococcus jannaschii 2190 -11540989 95022 mj0467 (de:50s ribosomal protein l24p) (db:swissprot) RL24_METJA P54038 METHANOCOCCUS JANNASCHII 2190 -11540989 174492 ribosomal protein l24 (cl:rat ribosomal protein l26) (db:pir2.dat) (mp:for413940-414302) C64358 C64358 Methanococcus jannaschii 2190 -11540989 246901 mj0467 lsu ribosomal protein l24p rplx (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14034 pid:44759 percent identity:) (le:4087) (re:4449) (di:direct) U67497 U67497 g1591169 Methanococcus jannaschii 2190 -11540989 6500737131 lsu ribosomal protein l24p:rplx:50s ribosomal protein l24p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0467 MJ0467 Methanococcus jannaschii 2190 -11540989

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930173	20494	42650	270	89

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930176	20495	42651	489	162

Description

5000698213 ssu ribosomal protein s4e:30s ribosomal protein s4e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0468 MJ0468 Methanococcus jannaschii 2190 -11540990 97302 mj0468 (de:30s ribosomal protein s4e) (db:swissprot) RS4E_METJA P54039 METHANOCOCCUS JANNASCHII 2190 -11540990 174523 ribosomal protein s4e (cl:rat ribosomal protein s4) (db:pir2.dat) (mp:for414312-415046) D64358 D64358 Methanococcus jannaschii 2190 -11540990 246902 mj0468 ssu ribosomal protein s4e (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14023 pid:44760 percent identity:) (le:4459) (re:5193) (di:direct) U67497 U67497 g1591170 Methanococcus jannaschii 2190 -11540990 6500737132 ssu ribosomal protein s4e:30s ribosomal protein s4e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0468 MJ0468 Methanococcus jannaschii 2190 -11540990

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930179	20496	42652	576	191

Description

5000698214 lsu ribosomal protein l5p:rple:50s ribosomal protein l5p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0469 MJ0469 Methanococcus jannaschii 2190 -11540991 95391 mj0469 (de:50s ribosomal protein l5p) (db:swissprot) RL5_METJA P54040 METHANOCOCCUS JANNASCHII 2190 -11540991 174504 ribosomal protein l5 (cl:escherichia coli ribosomal protein l5) (db:pir2.dat) (mp:for415069-415641) E64358 E64358 Methanococcus jannaschii 2190 -11540991 246903 mj0469 lsu ribosomal protein l5p rple (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to gb:s77838 sp:p41202 pid:243187) (le:5216) (re:5788) (di:direct) U67497 U67497 g1591171 Methanococcus jannaschii 2190 -11540991 6500737133 lsu ribosomal protein l5p:rple:50s ribosomal protein l5p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0469 MJ0469 Methanococcus jannaschii 2190 -11540991

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930180	20497	42653	225	74

Description

5000698215 ssu ribosomal protein s8p:rpsh:30s ribosomal protein s8p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0470 MJ0470 Methanococcus jannaschii 2190 -11540992 97425 mj0470 (de:30s ribosomal protein s8p) (db:swissprot) RS8_METJA P54041 METHANOCOCCUS JANNASCHII 2190 -11540992 174529 ribosomal protein s8 (cl:escherichia coli ribosomal protein s8) (db:pir2.dat) (mp:for415859-416251) F64358 F64358 Methanococcus jannaschii 2190 -11540992 246904 mj0470 ssu ribosomal protein s8p rpsh (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14038 pid:44763 percent identity:) (le:6006) (re:6398) (di:direct) U67497 U67497 g1591172 Methanococcus jannaschii 2190 -11540992 6500737134 ssu ribosomal protein s8p:rpsh:30s ribosomal protein s8p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0470 MJ0470 Methanococcus jannaschii 2190 -11540992

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930199	20498	42654	657	218

Description

5000698216 lsu ribosomal protein l6p:rplf:50s ribosomal protein l6p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0471 MJ0471 Methanococcus jannaschii 2190 -11540993 95421 mj0471 (de:50s ribosomal protein l6p) (db:swissprot) RL6_METJA P54042 METHANOCOCCUS JANNASCHII 2190 -11540993 174505 ribosomal protein l6 (cl:escherichia coli ribosomal protein l6) (db:pir2.dat) (mp:for416290-416838) G64358 G64358 Methanococcus jannaschii 2190 -11540993 246905 mj0471 lsu ribosomal protein l6p rplf (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14030 pid:44764 percent identity:) (le:6437) (re:6985) (di:direct) U67497 U67497 g1591173 Methanococcus jannaschii 2190 -11540993 6500737135 lsu ribosomal protein l6p:rplf:50s ribosomal protein l6p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0471 MJ0471 Methanococcus jannaschii 2190 -11540993

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930211	20499	42655	516	171

Description

5000698217 lsu ribosomal protein l32e:50s ribosomal protein l32e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0472 MJ0472 Methanococcus jannaschii 2190 -11540994 95172 mj0472 (de:50s ribosomal protein l32e) (db:swissprot) RL32_METJA P54010 METHANOCOCCUS JANNASCHII 2190 -11540994 174497 ribosomal protein l32 (cl:rat ribosomal protein l32) (db:pir2.dat) (mp:for416861-417301) H64358 H64358 Methanococcus jannaschii 2190 -11540994 246906 mj0472 lsu ribosomal protein l32e (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14549 pid:44765 percent identity:) (le:7008) (re:7448) (di:direct) U67497 U67497 g1591174 Methanococcus jannaschii 2190 -11540994 6500737136 lsu ribosomal protein l32e:50s ribosomal protein l32e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0472 MJ0472 Methanococcus jannaschii 2190 -11540994

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930225	20500	42656	225	74

Description

5000698218 lsu ribosomal protein l19e:50s ribosomal protein l19e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0473 MJ0473 Methanococcus jannaschii 2190 -11540995 94898 mj0473 (de:50s ribosomal protein l19e) (db:swissprot) RL19_METJA P54043 METHANOCOCCUS JANNASCHII 2190 -11540995 129084 ribosomal protein l19 (cl:rat ribosomal protein l19) (db:pir1.dat) (mp:for417350-417805) A64359 A64359 Methanococcus jannaschii 2190 -11540995 246907 mj0473 lsu ribosomal protein l19e (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14024 pid:44766 percent identity:) (le:7497) (re:7952) (di:direct) U67497 U67497 g1591175 Methanococcus jannaschii 2190 -11540995 6500737137 lsu ribosomal protein l19e:50s ribosomal protein l19e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0473 MJ0473 Methanococcus jannaschii 2190 -11540995

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930226	20501	42657	2496	831

Description

5000698219 lsu ribosomal protein l18p:50s ribosomal protein l18p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0474 MJ0474 Methanococcus jannaschii 2190 -11540996 94873 mj0474 (de:50s ribosomal protein l18p) (db:swissprot) RL18_METJA P54044 METHANOCOCCUS JANNASCHII 2190 -11540996 174487 ribosomal protein l18 (cl:rat ribosomal protein l5) (db:pir2.dat) (mp:for417838-418425) B64359 B64359 Methanococcus jannaschii 2190 -11540996 246908 mj0474 lsu ribosomal protein l18p (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14033 pid:44767 percent identity:) (le:7985) (re:8572) (di:direct) U67497 U67497 g1591176 Methanococcus jannaschii 2190 -11540996 6500737138 lsu ribosomal protein l18p:50s ribosomal protein l18p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0474 MJ0474 Methanococcus jannaschii 2190 -11540996

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930228	20502	42658	600	199

Description

5000698220 ssu ribosomal protein s5p:rpse:30s ribosomal protein s5p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0475 MJ0475 Methanococcus jannaschii 2190 -11540997 97344 mj0475 (de:30s ribosomal protein s5p) (db:swissprot) RS5_METJA P54045 METHANOCOCCUS JANNASCHII 2190 -11540997 174524 ribosomal protein s5 (cl:escherichia coli ribosomal protein s5) (db:pir2.dat) (mp:for418436-419089) C64359 C64359 Methanococcus jannaschii 2190 -11540997 246909 mj0475 ssu ribosomal protein s5p rpse (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14036 pid:44768 percent identity:) (le:8583) (re:9236) (di:direct) U67497 U67497 g1591177 Methanococcus jannaschii 2190 -11540997 6500737139 ssu ribosomal protein s5p:rpse:30s ribosomal protein s5p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0475 MJ0475 Methanococcus jannaschii 2190 -11540997

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930229	20503	42659	663	220

Description

5000698221 lsu ribosomal protein l30p:rpmd:50s ribosomal protein l30p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0476 MJ0476 Methanococcus jannaschii 2190 -11540998 95137 mj0476 (de:50s ribosomal protein l30p) (db:swissprot) RL30_METJA P54046 METHANOCOCCUS JANNASCHII 2190 -11540998 174506 ribosomal protein l7 (cl:rat ribosomal protein l7) (db:pir2.dat) (mp:for419155-419619) D64359 D64359 Methanococcus jannaschii 2190 -11540998 246910 mj0476 lsu ribosomal protein l30p rpmd (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14035 pid:44769 percent identity:) (le:9302) (re:9766) (di:direct) U67497 U67497 g1591178 Methanococcus jannaschii 2190 -11540998 6500737140 lsu ribosomal protein l30p:rpmd:50s ribosomal protein l30p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0476 MJ0476 Methanococcus jannaschii 2190 -11540998

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930280	20504	42660	1530	509

Description

5000698222 lsu ribosomal protein l15p:rplo:50s ribosomal protein l15p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0477 MJ0477 Methanococcus jannaschii 2190 -11540999 94820 mj0477 (de:50s ribosomal protein l15p) (db:swissprot) RL15_METJA P54047 METHANOCOCCUS JANNASCHII 2190 -11540999 174485 ribosomal protein l15 (cl:rat ribosomal protein l27a) (db:pir2.dat) (mp:for419631-420062) E64359 E64359 Methanococcus jannaschii 2190 -11540999 246911 mj0477 lsu ribosomal protein l15p rplo (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14032 pid:44770 percent identity:) (le:9778) (re:10209) (di:direct) U67497 U67497 g1591179 Methanococcus jannaschii 2190 -11540999 6500737141 lsu ribosomal protein l15p:rplo:50s ribosomal protein l15p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0477 MJ0477 Methanococcus jannaschii 2190 -11540999

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930282	20505	42661	378	125

Description

5000698223 lsu ribosomal protein l12a:p1:50s ribosomal protein l12:a type (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0508 MJ0508 Methanococcus jannaschii 2190 -11541000 94763 mj0508 (de:50s ribosomal protein l12 ('a' type)) (db:swissprot) RL12_METJA P54048 METHANOCOCCUS JANNASCHII 2190 -11541000 174481 ribosomal protein l12 (cl:rat acidic ribosomal protein p1) (db:pir2.dat) (mp:rev448731-448423) D64363 D64363 Methanococcus jannaschii 2190 -11541000 246942 mj0508 lsu ribosomal protein l12a p1 (db:genpept-bct1) (de:methanococcus jannaschii section 42 of 150 of the complete genome.) (nt:similar to gb:j03187 sp:p10623 pid:150068 percent) (le:7128) (re:7436) (di:complement) U67500 U67500 g1499306 Methanococcus jannaschii 2190 -11541000 6500737142 lsu ribosomal protein l12a:p1:50s ribosomal protein l12:a type (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0508 MJ0508 Methanococcus jannaschii 2190 -11541000

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930293	20506	42662	267	88

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930297	20507	42663	870	289

Description

5000698224 lsu ribosomal protein l10e:p0:acidic ribosomal protein p0 homolog:l10e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0509 MJ0509 Methanococcus jannaschii 2190 -11541001 172936 acidic ribosomal protein p0 l10e (cl:rat acidic ribosomal protein p0) (db:pir2.dat) (mp:rev449889-448858) E64363 E64363 Methanococcus jannaschii 2190 -11541001 6500737143 lsu ribosomal protein l10e:p0:acidic ribosomal protein p0 homolog:l10e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0509 MJ0509 Methanococcus jannaschii 2190 -11541001 95519 rla0_metja (de:acidic ribosomal protein p0 homolog (l10e).) P54049 P54049 Methanococcus jannaschii 2190 -11541001 246943 mju67500 (le:448858) (re:449889) (di:direct) (de:or:methanococcus jannaschii pn:acidic ribosomal protein p0 (l10e) gn:mj0509 le:7563 re:8594 di:complement nt:similar to p15826 percent identity: 62.2;) U67500 U67500 g1591211 Methanococcus jannaschii 2190 -11541001

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930298	20508	42664	2847	948

Description

5000698225 lsu ribosomal protein l1p:rpla:50s ribosomal protein l1p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0510 MJ0510 Methanococcus jannaschii 2190 -11541002 94929 mj0510 (de:50s ribosomal protein l1p) (db:swissprot) RL1_METJA P54050 METHANOCOCCUS JANNASCHII 2190 -11541002 174479 ribosomal protein l1 (cl:escherichia coli ribosomal protein l1) (db:pir2.dat) (mp:rev450598-449900) F64363 F64363 Methanococcus jannaschii 2190 -11541002 246944 mj0510 lsu ribosomal protein l1p rpla (db:genpept-bct1) (de:methanococcus jannaschii section 42 of 150 of the complete genome.) (nt:similar to sp:p15824 gb:x16023 pid:396697 percent) (le:8605) (re:9303) (di:complement) U67500 U67500 g1591212 Methanococcus jannaschii 2190 -11541002 6500737144 lsu ribosomal protein l1p:rpla:50s ribosomal protein l1p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0510 MJ0510 Methanococcus jannaschii 2190 -11541002

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930302	20509	42665	2019	672

Description

GTC ORF with score 525 to: (sr:schizosaccharomyces pombe (strain:972 h-) dna, clone_lib:mizukam) (db:genpept-pln1) (de:schizosaccharomyces pombe 38 kb genomic dna, clone c1241.) (nt:similar to s.cerevisiae probable membrane protein) (le:<1) (re:1500) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930303	20510	42666	312	103

Description

5000698226 lsu ribosomal protein l37ae:50s ribosomal protein l37ae (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0593 MJ0593 Methanococcus jannaschii 2190 -11541003 92849 mj0593 (de:50s ribosomal protein l37ae) (db:swissprot) R37A_METJA P54051 METHANOCOCCUS JANNASCHII 2190 -11541003 129206 ribosomal protein l37a (cl:rat ribosomal protein l37a) (db:pir1.dat) (mp:for526405-526683) A64374 A64374 Methanococcus jannaschii 2190 -11541003 247027 mj0593 lsu ribosomal protein l37ae (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to gb:l06499 sp:p12751 pid:292439 pid:36134) (le:858) (re:1136) (di:direct) U67508 U67508 g1591302 Methanococcus jannaschii 2190 -11541003 6500737145 lsu ribosomal protein l37ae:50s ribosomal protein l37ae (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0593 MJ0593 Methanococcus jannaschii 2190 -11541003

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930350	20511	42667	1278	426

Description

5000698227 lsu ribosomal protein lxa:50s ribosomal protein lx (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0595 MJ0595 Methanococcus jannaschii 2190 -11541004 95589 mj0595 (de:50s ribosomal protein lx) (db:swissprot) RLX_METJA P54052 METHANOCOCCUS JANNASCHII 2190 -11541004 174507 ribosomal protein lx (db:pir2.dat) (mp:for527663-527893) C64374 C64374 Methanococcus jannaschii 2190 -11541004 247029 mj0595 lsu ribosomal protein lxa (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to gb:x77509 sp:p38613 pid:453441 percent) (le:2116) (re:2346) (di:direct) U67508 U67508 g1591304 Methanococcus jannaschii 2190 -11541004 6500737146 lsu ribosomal protein lxa:50s ribosomal protein lx (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0595 MJ0595 Methanococcus jannaschii 2190 -11541004

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930355	20512	42668	297	98

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930361	20513	42669	585	194

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930369	20514	42670	375	124

Description

5000698229 lsu ribosomal protein l34e:50s ribosomal protein l34e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0655 MJ0655 Methanococcus jannaschii 2190 -11541005 95199 mj0655 (de:50s ribosomal protein l34e) (db:swissprot) RL34_METJA P54053 METHANOCOCCUS JANNASCHII 2190 -11541005 174498 ribosomal protein l34 (cl:rat ribosomal protein l34) (db:pir2.dat) (mp:for583166-583435) G64381 G64381 Methanococcus jannaschii 2190 -11541005 247089 mj0655 lsu ribosomal protein l34e (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:similar to gb:l38941 sp:p49207 pid:1008856 percent) (le:2264) (re:2533) (di:direct) U67513 U67513 g1591368 Methanococcus jannaschii 2190 -11541005 6500737147 lsu ribosomal protein l34e:50s ribosomal protein l34e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0655 MJ0655 Methanococcus jannaschii 2190 -11541005

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930375	20515	42671	1530	509

Description

5000698230 lsu ribosomal protein l14e:50s ribosomal protein l14e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0657 MJ0657 Methanococcus jannaschii 2190 -11541006 92780 mj0657 (de:50s ribosomal protein l14e) (db:swissprot) R14E_METJA P54054 METHANOCOCCUS JANNASCHII 2190 -11541006 174484 ribosomal protein l14b (db:pir2.dat) (mp:for584147-584389) A64382 A64382 Methanococcus jannaschii 2190 -11541006 247091 mj0657 lsu ribosomal protein l14e (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:similar to sp:p36105 sp:p38754 pid:2131109) (le:3245) (re:3487) (di:direct) U67513 U67513 g1591370 Methanococcus jannaschii 2190 -11541006 6500737148 lsu ribosomal protein l14e:50s ribosomal protein l14e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0657 MJ0657 Methanococcus jannaschii 2190 -11541006

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930384	20516	42672	2181	726

Description

5000698231 ssu ribosomal protein s8e:30s ribosomal protein s8e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0673 MJ0673 Methanococcus jannaschii 2190 -11541007 97412 mj0673 (de:30s ribosomal protein s8e) (db:swissprot) RS8E_METJA P54055 METHANOCOCCUS JANNASCHII 2190 -11541007 174530 ribosomal protein s8.er (cl:rat ribosomal protein s8) (db:pir2.dat) (mp:for599257-599646) A64384 A64384 Methanococcus jannaschii 2190 -11541007 247107 mj0673 ssu ribosomal protein s8e (db:genpept-bct1) (de:methanococcus jannaschii section 56 of 150 of the complete genome.) (nt:similar to sp:p49402 percent identity: 50.00;) (le:7972) (re:8361) (di:direct) U67514 U67514 g1591387 Methanococcus jannaschii 2190 -11541007 6500737149 ssu ribosomal protein s8e:30s ribosomal protein s8e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0673 MJ0673 Methanococcus jannaschii 2190 -11541007

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930415	20517	42673	333	110

Description

5000698232 lsu ribosomal protein l39e:50s ribosomal protein l39e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0689 MJ0689 Methanococcus jannaschii 2190 -11541008 95267 mj0689 (de:50s ribosomal protein l39e) (db:swissprot) RL39_METJA P54056 METHANOCOCCUS JANNASCHII 2190 -11541008 174503 ribosomal protein l46 (cl:rat ribosomal protein l39) (db:pir2.dat) (mp:rev617368-617210) A64386 A64386 Methanococcus jannaschii 2190 -11541008 247123 mj0689 lsu ribosomal protein l39e (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to sp:p13005 gb:x77509 pid:453438 percent) (le:1792) (re:1950) (di:complement) U67516 U67516 g1591404 Methanococcus jannaschii 2190 -11541008 6500737150 lsu ribosomal protein l39e:50s ribosomal protein l39e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0689 MJ0689 Methanococcus jannaschii 2190 -11541008

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930416	20518	42674	600	199

Description

5000698233 ssu ribosomal protein s19e:30s ribosomal protein s19e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0692 MJ0692 Methanococcus jannaschii 2190 -11541009 92797 mj0692 (de:30s ribosomal protein s19e) (db:swissprot) R19E_METJA P54057 METHANOCOCCUS JANNASCHII 2190 -11541009 174515 ribosomal protein s19s (cl:rat ribosomal protein s19) (db:pir2.dat) (mp:rev618760-618314) D64386 D64386 Methanococcus jannaschii 2190 -11541009 247126 mj0692 ssu ribosomal protein s19e (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to gp:414609 percent identity: 46.38;) (le:2896) (re:3342) (di:complement) U67516 U67516 g1591407 Methanococcus jannaschii 2190 -11541009 6500737151 ssu ribosomal protein s19e:30s ribosomal protein s19e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0692 MJ0692 Methanococcus jannaschii 2190 -11541009

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930430	20519	42675	1149	382

Description

5000698234 lsu ribosomal protein l40e:cep52:50s ribosomal protein l40e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0707 MJ0707 Methanococcus jannaschii 2190 -11541010 95323 mj0707 (de:50s ribosomal protein l40e) (db:swissprot) RL40_METJA P54058 METHANOCOCCUS JANNASCHII 2190 -11541010 174501 ribosomal protein l40 (db:pir2.dat) (mp:rev634274-634131) C64388 C64388 Methanococcus jannaschii 2190 -11541010 247141 mj0707 lsu ribosomal protein l40e cep52 (db:genpept-bct1) (de:methanococcus jannaschii section 59 of 150 of the complete genome.) (nt:similar to pir:b48470 percent identity: 61.11;) (le:3558) (re:3701) (di:complement) U67517 U67517 g1591423 Methanococcus jannaschii 2190 -11541010 6500737152 lsu ribosomal protein l40e:cep52:50s ribosomal protein l40e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0707 MJ0707 Methanococcus jannaschii 2190 -11541010

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930431	20520	42676	699	232

Description

5000698235 ssu ribosomal protein s3ae:30s ribosomal protein s3ae (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0980 MJ0980 Methanococcus jannaschii 2190 -11541011 174521 ribosomal protein s3a (cl:rat ribosomal protein s3a) (db:pir2.dat) (mp:rev913602-912934) D64422 D64422 Methanococcus jannaschii 2190 -11541011 97266 mj0980 (de:30s ribosomal protein s3ae) (db:swissprot) RS3A_METJA P54059 METHANOCOCCUS JANNASCHII 2190 -11541011 6500737153 ssu ribosomal protein s3ae:30s ribosomal protein s3ae (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0980 MJ0980 Methanococcus jannaschii 2190 -11541011 247414 mju67541 (le:912934) (re:913602) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein s3a gn:mj0980 le:1832 re:2500 di:complement nt:similar to s46496 percent identity: 28.6;) U67541 U67541 g1499819 Methanococcus jannaschii 2190 -11541011

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930433	20521	42677	351	116

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930434	20522	42678	930	309

Description

5000699016 ssu ribosomal protein s2p:30s ribosomal protein s2p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0982 MJ0982 Methanococcus jannaschii 2190 -11541012 174477 ribosomal protein hs2 homolog (cl:yeast ribosomal protein s1.e.a) (db:pir2.dat) (mp:rev914959-914282) F64422 F64422 Methanococcus jannaschii 2190 -11541012 6500737154 ssu ribosomal protein s2p:30s ribosomal protein s2p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0982 MJ0982 Methanococcus jannaschii 2190 -11541012 97236 rs2_metja (de:30s ribosomal protein s2p.) P54109 P54109 Methanococcus jannaschii 2190 -11541012 247416 mju67541 (le:914282) (re:914959) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein (p29202) gn:mj0982 le:3180 re:3857 di:complement nt:similar to p29202 percent identity: 56.0;) U67541 U67541 g1591644 Methanococcus jannaschii 2190 -11541012

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930435	20523	42679	234	77

Description

5000698236 lsu ribosomal protein l15e:rpl15:50s ribosomal protein l15e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0983 MJ0983 Methanococcus jannaschii 2190 -11541013 92784 mj0983 (de:50s ribosomal protein l15e) (db:swissprot) R15E_METJA P54060 METHANOCOCCUS JANNASCHII 2190 -11541013 174486 ribosomal protein l15b (cl:rat ribosomal protein l15) (db:pir2.dat) (mp:rev915654-915070) G64422 G64422 Methanococcus jannaschii 2190 -11541013 247417 mj0983 lsu ribosomal protein l15e rpl15 (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:similar to sp:p49403 pid:785060 percent identity:) (le:3968) (re:4552) (di:complement) U67541 U67541 g1591645 Methanococcus jannaschii 2190 -11541013 6500737155 lsu ribosomal protein l15e:rpl15:50s ribosomal protein l15e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ0983 MJ0983 Methanococcus jannaschii 2190 -11541013

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930440	20524	42680	3264	1087

Description

5000698238 lsu ribosomal protein l30e:50s ribosomal protein l30e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1044 MJ1044 Methanococcus jannaschii 2190 -11541014 95278 mj1044 (de:50s ribosomal protein l30e) (db:swissprot) RL3E_METJA P54061 METHANOCOCCUS JANNASCHII 2190 -11541014 129168 ribosomal protein l30.er (cl:rat ribosomal protein l30) (db:pir1.dat) (mp:for981635-981967) C64430 C64430 Methanococcus jannaschii 2190 -11541014 247477 mj1044 lsu ribosomal protein l30e (db:genpept-bct1) (de:methanococcus jannaschii section 89 of 150 of the complete genome.) (nt:similar to sp:p14025 gb:x15970 pid:44782 percent) (le:7112) (re:7444) (di:direct) U67547 U67547 g1591698 Methanococcus jannaschii 2190 -11541014 6500737156 lsu ribosomal protein l30e:50s ribosomal protein l30e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1044 MJ1044 Methanococcus jannaschii 2190 -11541014

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930443	20525	42681	840	279

Description

GTC ORF with score 110 to: (db:genpept-inv) (de:caenorhabditis elegans cosmid c11g6, complete sequence.) (nt:similar to phd-finger.; cdna est embl:t00556 comes) (le:19230:19333:20803:22572) (re:19263:19616:20996:23063) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930458	20526	42682	405	134

Description

GTC ORF with score 160 to: (sr:human) (db:genpept) (de:homo sapiens s164 gene, partial cds; ps1 and hypothetical proteingenes, complete cds; and s171 gene, partial cds.) (nt:unknown; intron-exon boundaries defined by ests) (le:<1465:5979:14890:17363) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930505	20527	42683	261	86

Description

5000698239 ssu ribosomal protein s12p:rpsl:30s ribosomal protein s12p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1046 MJ1046 Methanococcus jannaschii 2190 -11541015 148539 ribosomal protein s12 (cl:escherichia coli ribosomal protein s12) (db:pir2.dat) (mp:for982651-983106) E64430 E64430 Methanococcus jannaschii 2190 -11541015 6500737157 ssu ribosomal protein s12p:rpsl:30s ribosomal protein s12p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1046 MJ1046 Methanococcus jannaschii 2190 -11541015 96950 rs12_metja (de:30s ribosomal protein s12p.) P54062 P54062 Methanococcus jannaschii 2190 -11541015 247479 mju67547 (le:982651) (re:983106) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein s12 gn:mj1046 le:8128 re:8583 di:direct nt:similar to p14040 percent identity: 82.4;) U67547 U67547 g1591700 Methanococcus jannaschii 2190 -11541015

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930560	20528	42684	3417	1138

Description

5000698240 ssu ribosomal protein s7p:rpsg:30s ribosomal protein s7p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1047 MJ1047 Methanococcus jannaschii 2190 -11541016 97391 mj1047 (de:30s ribosomal protein s7p) (db:swissprot) RS7_METJA P54063 METHANOCOCCUS JANNASCHII 2190 -11541016 174528 ribosomal protein s7 (cl:escherichia coli ribosomal protein s7) (db:pir2.dat) (mp:for983164-983739) F64430 F64430 Methanococcus jannaschii 2190 -11541016 247480 mj1047 ssu ribosomal protein s7p rpsg (db:genpept-bct1) (de:methanococcus jannaschii section 89 of 150 of the complete genome.) (nt:similar to sp:p14037 gb:x15970 pid:44785 percent) (le:8641) (re:9216) (di:direct) U67547 U67547 g1591701 Methanococcus jannaschii 2190 -11541016 6500737158 ssu ribosomal protein s7p:rpsg:30s ribosomal protein s7p (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1047 MJ1047 Methanococcus jannaschii 2190 -11541016

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930574	20529	42685	285	94

Description

5000698241 lsu ribosomal protein l24e:50s ribosomal protein l24e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1201 MJ1201 Methanococcus jannaschii 2190 -11541017 92808 mj1201 (de:50s ribosomal protein l24e) (db:swissprot) R24E_METJA P54064 METHANOCOCCUS JANNASCHII 2190 -11541017 174493 ribosomal protein l24e (cl:haloarcula ribosomal protein hl21) (db:pir2.dat) (mp:rev1146494-1146282) H64449 H64449 Methanococcus jannaschii 2190 -11541017 247634 mj1201 lsu ribosomal protein l24e (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to sp:p14116 percent identity: 53.85;) (le:60) (re:272) (di:complement) U67562 U67562 g1592325 Methanococcus jannaschii 2190 -11541017 6500737159 lsu ribosomal protein l24e:50s ribosomal protein l24e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1201 MJ1201 Methanococcus jannaschii 2190 -11541017

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930575	20530	42686	795	264

Description

5000698242 ssu ribosomal protein s28e:50s ribosomal protein s28e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1202 MJ1202 Methanococcus jannaschii 2190 -11541018 97221 mj1202 (de:50s ribosomal protein s28e) (db:swissprot) RS28_METJA P54065 METHANOCOCCUS JANNASCHII 2190 -11541018 174520 ribosomal protein s33 (cl:rat ribosomal protein s28) (db:pir2.dat) (mp:rev1146788-1146552) A64450 A64450 Methanococcus jannaschii 2190 -11541018 247635 mj1202 ssu ribosomal protein s28e (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to gb:l05091 gb:u58682 sp:p25112) (le:330) (re:566) (di:complement) U67562 U67562 g1591832 Methanococcus jannaschii 2190 -11541018 6500737160 ssu ribosomal protein s28e:50s ribosomal protein s28e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1202 MJ1202 Methanococcus jannaschii 2190 -11541018

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930576	20531	42687	525	174

Description

5000698243 lsu ribosomal protein l7ae:50s ribosomal protein l7ae (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1203 MJ1203 Methanococcus jannaschii 2190 -11541019 174478 ribosomal protein hs6-type (cl:rat ribosomal protein l7a) (db:pir2.dat) (mp:rev1147262-1146900) B64450 B64450 Methanococcus jannaschii 2190 -11541019 6500737161 lsu ribosomal protein l7ae:50s ribosomal protein l7ae (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1203 MJ1203 Methanococcus jannaschii 2190 -11541019 95441 rl7a_metja (de:50s ribosomal protein l7ae.) P54066 P54066 Methanococcus jannaschii 2190 -11541019 247636 mju67562 (le:1146900) (re:1147262) (di:direct) (de:or:methanococcus jannaschii pn:ribosomal protein hs6-type gn:mj1203 le:678 re:1040 di:complement nt:similar to p12743 percent identity: 47.0;) U67562 U67562 g1591833 Methanococcus jannaschii 2190 -11541019

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930577	20532	42688	489	162

Description

5000698244 ssu ribosomal protein s6e:30s ribosomal protein s6e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1260 MJ1260 Methanococcus jannaschii 2190 -11541020 97356 mj1260 (de:30s ribosomal protein s6e) (db:swissprot) RS6E_METJA P54067 METHANOCOCCUS JANNASCHII 2190 -11541020 174525 ribosomal protein s6.er (cl:haloarcula ribosomal protein hs13) (db:pir2.dat) (mp:for1202288-1202683) C64457 C64457 Methanococcus jannaschii 2190 -11541020 247693 mj1260 ssu ribosomal protein s6e (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:similar to sp:p21509 percent identity: 39.84;) (le:6400) (re:6795) (di:direct) U67566 U67566 g1591894 Methanococcus jannaschii 2190 -11541020 6500737162 ssu ribosomal protein s6e:30s ribosomal protein s6e (gtcfc:10.4) (keggfc:14.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii) MJ1260 MJ1260 Methanococcus jannaschii 2190 -11541020

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930621	20533	42689	2049	682

Description

5000698253 putative trna synthetase:hypothetical protein (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0539 MJ0539 Methanococcus jannaschii 2190 -11541021 173578 hypothetical protein mj0539 (cl:lyme disease spirochete lysine--trna ligase) (db:pir2.dat) (mp:rev476436-474832) C64367 C64367 Methanococcus jannaschii 2190 -11541021 6500737163 putative trna synthetase:hypothetical protein (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.1) (db:gtc-methanococcus jannaschii) MJ0539 MJ0539 Methanococcus jannaschii 2190 -11541021 246973 mju67503 (le:474832) (re:476436) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0539 gn:mj0539 le:2987 re:4591 di:complement nt:identified by genemark; putative) U67503 U67503 g1591243 Methanococcus jannaschii 2190 -11541021 4000708330 y539_metja (de:(gn:mj0539) (de:hypothetical protein mj0539) (sp:q57959)) Q57959 Q57959 Methanococcus jannaschii 2190 -11541021

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930622	20534	42690	570	189

Description

5000698549 selenocystein synthase:sela:hypothetical protein (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ0158 MJ0158 Methanococcus jannaschii 2190 -11541022 118817 mj0158 (de:hypothetical protein mj0158) (db:swissprot) Y158_METJA Q57622 METHANOCOCCUS JANNASCHII 2190 -11541022 173372 hypothetical protein mj0158 (cl:hypothetical protein mj0158) (db:pir2.dat) (mp:for160155-161279) G64319 G64319 Methanococcus jannaschii 2190 -11541022 246593 mj0158 selenocystein synthase sela (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:similar to sp:p23328 gb:m64177 pid:147804) (le:2456) (re:3580) (di:direct) U67473 U67473 g1498930 Methanococcus jannaschii 2190 -11541022 6500737164 selenocystein synthase:sela:hypothetical protein (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ0158 MJ0158 Methanococcus jannaschii 2190 -11541022

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930646	20535	42691	864	287

Description

GTC ORF with score 140 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid k09h11.) (nt:similar to acyl-coa dehydrogenases and epoxide) (le:34034:34228:34416:34587) (re:34103:34324:34530:34772) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930654	20536	42692	336	111

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930658	20537	42693	2385	794

Description

6500737165 archaeosine trna-ribosyltransferase:trna-guanine transglycosylase (gtcfc:10.6) (ec:2.4.2.29) (keggfc:14.1) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ0436 MJ0436 Methanococcus jannaschii 2190 -11541023 4000708289 mj0436 (de:hypothetical protein mj0436) (db:swissprot) Y436_METJA Q57878 METHANOCOCCUS JANNASCHII 2190 -11541023 174461 queuine trna-ribosyltransferase (ec:2.4.2.29) (db:pir2.dat) (mp:rev391278-389626) D64354 D64354 Methanococcus jannaschii 2190 -11541023 246870 mj0436 queuine trna-ribosyltransferase tgta (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to gb:m63939 sp:p19675 gb:s68715 gb:x56175) (le:2604) (re:4256) (di:complement) U67495 U67495 g1591140 Methanococcus jannaschii 2190 -11541023 5000698463 (de:(mj0436) (pn:queuine trna ribosyltransferase) (gtcfc:13.7) (ec:2.4.2.29) (keggfc:11.1) (tigrfc:12.6) (db:gtc-methanococcus jannaschii)) MJ0436 MJ0436 Methanococcus jannaschii 2190 10092457

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930661	20538	42694	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930665	20539	42695	810	269

Description

6500737166 trm1:n2:n2-dimethylguanosine trna methyltransferase (gtcfc:10.6) (ec:2.1.1.32) (keggfc:14.1) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ0946 MJ0946 Methanococcus jannaschii 2190 -11541024 174361 n2:n2-dimethylguanosine trna methyltransferase (cl:n2,n2-dimethylguanosine trna methyltransferase) (ec:2.1.1.-) (db:pir2.dat) (mp:rev877444-876320) B64418 B64418 Methanococcus jannaschii 2190 -11541024 247380 mj0946 n2:n2-dimethylguanosine trna methyltransferase (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:similar to sp:p15565 pid:172940 pid:747894 percent) (le:2774) (re:3898) (di:complement) U67538 U67538 g1591613 Methanococcus jannaschii 2190 -11541024 5000698464 (de:(mj0946) (pn:n2,n2-dimethylguanosine trna methyltransferase) (gtcfc:13.7) (ec:2.1.1.32) (keggfc:11.1) (tigrfc:12.6) (db:gtc-methanococcus jannaschii)) MJ0946 MJ0946 Methanococcus jannaschii 2190 10092405

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930671	20540	42696	1251	416

Description

5000699443 trna nucleotidyltransferase:cca:m (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ1111 MJ1111 Methanococcus jannaschii 2190 -11541025 173885 hypothetical protein mj1111 (cl:conserved hypothetical protein mj1111) (db:pir2.dat) (mp:rev1053693-1052539) F64438 F64438 Methanococcus jannaschii 2190 -11541025 6500737167 trna nucleotidyltransferase:cca:m (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ1111 MJ1111 Methanococcus jannaschii 2190 -11541025 247544 mju67554 (le:1052539) (re:1053693) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1111 gn:mj1111 le:2231 re:3385 di:complement nt:identified by genemark; putative) U67554 U67554 g1499962 Methanococcus jannaschii 2190 -11541025

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930681	20541	42697	438	145

Description

GTC ORF with score 254 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid k09h11.) (nt:similar to acyl-coa dehydrogenases and epoxide) (le:34034:34228:34416:34587) (re:34103:34324:34530:34772) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930688	20542	42698	636	212

Description

5000699444 trna nucleotidyltransferase:cca:m (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ1112 MJ1112 Methanococcus jannaschii 2190 -11541026 173886 hypothetical protein mj1112 (db:pir2.dat) (mp:rev1053889-1053644) G64438 G64438 Methanococcus jannaschii 2190 -11541026 6500737168 trna nucleotidyltransferase:cca:m (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ1112 MJ1112 Methanococcus jannaschii 2190 -11541026 247545 mju67554 (le:1053644) (re:1053889) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1112 gn:mj1112 le:3336 re:3581 di:complement nt:identified by genemark; putative) U67554 U67554 g1591752 Methanococcus jannaschii 2190 -11541026

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930709	20543	42699	357	118

Description

5000699243 trna intron endonuclease:enda:m (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ1424 MJ1424 Methanococcus jannaschii 2190 -11541027 6500737169 enda:mj1424 (ec:3.1.27.9) (de:putative trna-intron endonuclease,) (db:swissprot) ENDA_METJA Q58819 METHANOCOCCUS JANNASCHII 2190 -11541027 174063 hypothetical protein mj1424 (cl:hypothetical protein mj1424) (db:pir2.dat) (mp:for1394468-1395007) G64477 G64477 Methanococcus jannaschii 2190 -11541027 247857 mj1424 trna intron endonuclease enda (db:genpept-bct1) (de:methanococcus jannaschii section 125 of 150 of the complete genome.) (nt:similar to gp:2160792 percent identity: 35.19;) (le:8564) (re:9103) (di:direct) U67583 U67583 g1592074 Methanococcus jannaschii 2190 -11541027

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930711	20544	42700	687	228

Description

5000698252 seld:selenium donor protein (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ1591 MJ1591 Methanococcus jannaschii 2190 -11541028 174536 selenium donor protein (db:pir2.dat) (mp:for1563343-1564269) F64498 F64498 Methanococcus jannaschii 2190 -11541028 6500737170 seld:selenium donor protein (gtcfc:10.6) (keggfc:14.2) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ1591 MJ1591 Methanococcus jannaschii 2190 -11541028 248024 mju67599 (le:1563343) (re:1564269) (di:direct) (de:or:methanococcus jannaschii pn:selenium donor protein gn:mj1591 le:2643 re:3569 di:direct nt:similar to pid:1000284 percent identity: 36.3;) U67599 U67599 g1592202 Methanococcus jannaschii 2190 -11541028

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930718	20545	42701	264	87

Description

6500737171 trua:pseudouridylate synthase i (gtcfc:10.6) (ec:4.2.1.70) (keggfc:14.1) (tigrfc:12.5) (db:gtc-methanococcus jannaschii) MJ1675 MJ1675 Methanococcus jannaschii 2190 -11541029 5000698465 trua:mj1675 (ec:4.2.1.70) (de:synthase i) (pseudouridine synthase i) (uracil hydrolyase)) (db:swissprot) TRUA_METJA Q59069 METHANOCOCCUS JANNASCHII 2190 -11541029 174593 hist trna-pseudouridine synthase i (cl:trna-pseudouridine synthase i) (ec:5.4.99.12) (db:pir2.dat) (mp:for1658654-1659433) A64509 A64509 Methanococcus jannaschii 2190 -11541029 248107 mj1675 pseudouridylate synthase i trua (db:genpept-bct1) (de:methanococcus jannaschii section 150 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45291 pid:1007937) (le:82) (re:861) (di:direct) U67608 U67608 g1500579 Methanococcus jannaschii 2190 -11541029

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930719	20546	42702	273	90

Description

5000698272 proliferating-cell nucleolar antigen p120:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0026 MJ0026 Methanococcus jannaschii 2190 -11541030 118252 mj0026 (de:hypothetical protein mj0026) (db:swissprot) Y026_METJA Q60343 METHANOCOCCUS JANNASCHII 2190 -11541030 172906 120k proliferating-cell nucleolar antigen homolog (cl:hypothetical protein hi0624) (db:pir2.dat) (mp:rev27958-27134) B64303 B64303 Methanococcus jannaschii 2190 -11541030 246460 mj0026 proliferating-cell nucleolar antigen (db:genpept-bct1) (de:methanococcus jannaschii section 3 of 150 of the complete genome.) (nt:similar to gb:m32110 gb:m33132 gb:x55504 sp:p46087) (le:4578) (re:5402) (di:complement) U67461 U67461 g1592257 Methanococcus jannaschii 2190 -11541030 6500737172 proliferating-cell nucleolar antigen p120:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0026 MJ0026 Methanococcus jannaschii 2190 -11541030

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930723	20547	42703	2058	685

Description

GTC ORF with score 414 to: (sr:baker's yeast strain=s288c (ab972)) (db:genpept-pln1) (de:saccharomyces cerevisiae chromosome v cosmids 9747, 8198, 9781, andlambda clones 3612 and 6052.) (nt:yer105c) (le:57821) (re:61996) (di:complement)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930724	20548	42704	732	243

Description

5000698417 codh nickel-insertion accessory protein:cooc:hypothetical atp-binding protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0084 MJ0084 Methanococcus jannaschii 2190 -11541031 118772 mj0084 (de:hypothetical atp-binding protein mj0084) (db:swissprot) Y084_METJA Q60392 METHANOCOCCUS JANNASCHII 2190 -11541031 174392 nucleotide-binding protein mj0084 (cl:conserved hypothetical protein mj0823) (db:pir2.dat) (mp:for78746-79495) D64310 D64310 Methanococcus jannaschii 2190 -11541031 246518 mj0084 codh nickel-insertion accessory protein cooc (db:genpept-bct1) (de:methanococcus jannaschii section 7 of 150 of the complete genome.) (nt:similar to gp:1498749 percent identity: 33.33;) (le:9610) (re:10359) (di:direct) U67465 U67465 g1590866 Methanococcus jannaschii 2190 -11541031 6500737173 codh nickel-insertion accessory protein:cooc:hypothetical atp-binding protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0084 MJ0084 Methanococcus jannaschii 2190 -11541031

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930725	20549	42705	621	206

Description

6500737174 pcm:mj0172 protein-l-isoaspartate o-methyltransferase:protein-beta-aspartate methyltransferase:pimt:protein l-isoaspartyl methyltransferase:l-isoaspartyl protein carboxyl methyltransferase (gtcfc:10.7) (ec:2.1.1.77) (keggfc:14.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0172 MJ0172 Methanococcus jannaschii 2190 -11541032 5500685741 pcm:mj0172 (ec:2.1.1.77) (de:methyltransferase) (l-isoaspartyl protein carboxyl methyltransferase)) (db:swissprot) PIMT_METJA Q57636 METHANOCOCCUS JANNASCHII 2190 -11541032 174306 l-isoaspartyl protein carboxyl methyltransferase (cl:escherichia coli protein-l-isoaspartate (d-aspartate) o-methyltransferase type ii:bioc homology) (db:pir2.dat) (mp:rev175830-175183) E64321 E64321 Methanococcus jannaschii 2190 -11541032 246607 mj0172 l-isoaspartyl protein carboxyl (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to gb:u31288 sp:q42539 pid:1322021 percent) (le:4460) (re:5107) (di:complement) U67474 U67474 g1590925 Methanococcus jannaschii 2190 -11541032 5000698246 (de:(mj0172) (pn:l-isoaspartyl protein carboxyl methyltransferase) (gtcfc:10.5) (ec:2.1.1.77) (keggfc:11.1) (tigrfc:12.4) (db:gtc-methanococcus jannaschii)) MJ0172 MJ0172 Methanococcus jannaschii 2190 10092363

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930745	20550	42706	417	138

Description

5000697850 hydrogenase expression/formation protein:hypc:putative hydrogenase expression/formation protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0200 MJ0200 Methanococcus jannaschii 2190 -11541033 118661 mj0200 (de:putative hydrogenase expression/formation protein mj0200) (db:swissprot) Y200_METJA Q57653 METHANOCOCCUS JANNASCHII 2190 -11541033 173191 hydrogenase expression/formation protein c homolog (cl:hydrogenase expression/formation protein hypc) (db:pir2.dat) (mp:rev192867-192619) A64325 A64325 Methanococcus jannaschii 2190 -11541033 246635 mj0200 hydrogenase expression/formation protein hypc (db:genpept-bct1) (de:methanococcus jannaschii section 18 of 150 of the complete genome.) (nt:similar to gb:l23970 sp:p31881 gb:x63650 pid:39244) (le:1427) (re:1675) (di:complement) U67476 U67476 g1498975 Methanococcus jannaschii 2190 -11541033 6500737175 hydrogenase expression/formation protein:hypc:putative hydrogenase expression/formation protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0200 MJ0200 Methanococcus jannaschii 2190 -11541033

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930752	20551	42707	1188	395

Description

5000697851 hydrogenase expression/formation protein:hypb:putative hydrogenase expression/formation protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0442 MJ0442 Methanococcus jannaschii 2190 -11541034 1500686231 mj0442 (de:putative hydrogenase expression/formation protein mj0442) (db:swissprot) Y442_METJA Q57884 METHANOCOCCUS JANNASCHII 2190 -11541034 173190 hydrogenase expression/formation protein b homolog (cl:hydrogenase expression/formation protein hypb) (db:pir2.dat) (mp:rev396995-396330) B64355 B64355 Methanococcus jannaschii 2190 -11541034 246876 mj0442 hydrogenase expression/formation protein hypb (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to sp:p28155 pid:48733 pid:536810 percent) (le:9308) (re:9973) (di:complement) U67495 U67495 g1591146 Methanococcus jannaschii 2190 -11541034 6500737176 hydrogenase expression/formation protein:hypb:putative hydrogenase expression/formation protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0442 MJ0442 Methanococcus jannaschii 2190 -11541034

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930764	20552	42708	627	208

Description

5000698228 ribosomal protein s6 modification protein 1:rimk:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0620 MJ0620 Methanococcus jannaschii 2190 -11541035 4000708376 mj0620 (de:hypothetical protein mj0620) (db:swissprot) Y620_METJA Q58037 METHANOCOCCUS JANNASCHII 2190 -11541035 174526 ribosomal protein s6 modification protein (db:pir2.dat) (mp:for549692-550567) D64377 D64377 Methanococcus jannaschii 2190 -11541035 247054 mj0620 ribosomal protein s6 modification protein 1 (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to gb:142023 sp:p45241 pid:1007717) (le:4143) (re:5018) (di:direct) U67510 U67510 g1591331 Methanococcus jannaschii 2190 -11541035 6500737177 ribosomal protein s6 modification protein 1:rimk:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0620 MJ0620 Methanococcus jannaschii 2190 -11541035

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930795	20553	42709	258	85

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930799	20554	42710	1188	395

Description

6500737178 hydrogenase maturation protease:hyci:putative hydrogenase maturation protease (gtcfc:10.7) (ec:3.-.-.-) (keggfc:14.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0631 MJ0631 Methanococcus jannaschii 2190 -11541036 500684959 mj0631 (ec:3.-.-.-) (de:putative hydrogenase maturation protease mj0631,) (db:swissprot) Y631_METJA Q58048 METHANOCOCCUS JANNASCHII 2190 -11541036 173194 hydrogenase maturation proteinase homolog (cl:hydrogenase 3 hyci) (db:pir2.dat) (mp:for557768-558277) G64378 G64378 Methanococcus jannaschii 2190 -11541036 247065 mj0631 hydrogenase maturation protease hyci (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to percent identity: 33.59; identified by) (le:12219) (re:12728) (di:direct) U67510 U67510 g1591342 Methanococcus jannaschii 2190 -11541036 5000697853 (de:(mj0631) (pn:putative hydrogenase maturation protease:hydrogenase maturation protease) (gtcfc:1.9:13.7) (ec:3.-.-.-) (y631_metja) (keggfc:11.1) (tigrfc:5.7) (db:gtc-methanococcus jannaschii)) MJ0631 MJ0631 Methanococcus jannaschii 2190 10060953

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930815	20555	42711	342	113

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930831	20556	42712	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930838	20557	42713	1461	486

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930841	20558	42714	2769	922

Description

5000697854 hydrogenase expression/formation protein:hype:putative hydrogenase expression/formation protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0676 MJ0676 Methanococcus jannaschii 2190 -11541037 1500686232 mj0676 (de:putative hydrogenase expression/formation protein mj0676) (db:swissprot) Y676_METJA Q58089 METHANOCOCCUS JANNASCHII 2190 -11541037 173193 hydrogenase expression/formation protein homolog (cl:hydrogenase expression/formation protein hype) (db:pir2.dat) (mp:rev603091-602084) D64384 D64384 Methanococcus jannaschii 2190 -11541037 247110 mj0676 hydrogenase expression/formation protein hype (db:genpept-bct1) (de:methanococcus jannaschii section 57 of 150 of the complete genome.) (nt:similar to gb:x52974 sp:p40599 pid:48737 pid:536795) (le:104) (re:1111) (di:complement) U67515 U67515 g1591391 Methanococcus jannaschii 2190 -11541037 6500737179 hydrogenase expression/formation protein:hype:putative hydrogenase expression/formation protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0676 MJ0676 Methanococcus jannaschii 2190 -11541037

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930857	20559	42715	351	116

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930866	20560	42716	876	291

Description

GTC ORF with score 239 to: (sr:escherichia coli (strain:k-12, sub_strain:w3110) dna) (db:genpept-bct1) (de:escherichia coli genes for mhpr, mhpa, mhpb, mhpc, mhpd, mhpe andmhpf, complete sequence of the mhp operon.) (le:1024) (re:2688) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930877	20561	42717	249	82

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930893	20562	42718	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930894	20563	42719	303	100

Description

5000697856 hydrogenase expression/formation protein:hypd:hydrogenase expression/formation protein d (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0993 MJ0993 Methanococcus jannaschii 2190 -11541038 5500686457 mj0993 (de:putative hydrogenase expression/formation protein mj0993) (db:swissprot) Y993_METJA Q58400 METHANOCOCCUS JANNASCHII 2190 -11541038 173192 hydrogenase expression/formation protein d (cl:hydrogenase expression/formation protein hypd) (db:pir2.dat) (mp:rev922911-921835) A64424 A64424 Methanococcus jannaschii 2190 -11541038 247427 mj0993 hydrogenase expression/formation protein hypd (db:genpept-bct1) (de:methanococcus jannaschii section 84 of 150 of the complete genome.) (nt:similar to sp:p31903 gb:x70183 pid:38775 percent) (le:369) (re:1445) (di:complement) U67542 U67542 g1591656 Methanococcus jannaschii 2190 -11541038 6500737180 hydrogenase expression/formation protein:hypd:hydrogenase expression/formation protein d (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ0993 MJ0993 Methanococcus jannaschii 2190 -11541038

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930902	20564	42720	198	65

Description

5000698237 ribosomal protein s6 modification protein 2:rimk:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ1001 MJ1001 Methanococcus jannaschii 2190 -11541039 4000708423 mj1001 (de:hypothetical protein mj1001) (db:swissprot) YA01_METJA Q58407 METHANOCOCCUS JANNASCHII 2190 -11541039 174527 ribosomal protein s6 modification protein ii (db:pir2.dat) (mp:for930007-930879) H64424 H64424 Methanococcus jannaschii 2190 -11541039 247434 mj1001 ribosomal protein s6 modification protein 2 (db:genpept-bct1) (de:methanococcus jannaschii section 84 of 150 of the complete genome.) (nt:similar to sp:p17116 gb:x15859 pid:42747 gb:u00096) (le:8541) (re:9413) (di:direct) U67542 U67542 g1591661 Methanococcus jannaschii 2190 -11541039 6500737181 ribosomal protein s6 modification protein 2:rimk:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ1001 MJ1001 Methanococcus jannaschii 2190 -11541039

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930903	20565	42721	3963	1320

Description

6500737182 dph5:diphthine synthase (gtcfc:10.7) (ec:2.1.1.98) (keggfc:14.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ1274 MJ1274 Methanococcus jannaschii 2190 -11541040 173058 diphthine synthase (cl:methanococcus jannaschii diphthine synthase) (ec:2.1.1.98) (db:pir2.dat) (mp:rev1218480-1217707) A64459 A64459 Methanococcus jannaschii 2190 -11541040 247707 mj1274 diphthine synthase dph5 (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:similar to sp:p32469 pid:171416 pid:577209) (le:2197) (re:2970) (di:complement) U67568 U67568 g1591910 Methanococcus jannaschii 2190 -11541040 5000698248 (de:(mj1274) (pn:diphthine synthase) (gtcfc:10.5) (ec:2.1.1.98) (keggfc:11.1) (tigrfc:12.4) (db:gtc-methanococcus jannaschii)) MJ1274 MJ1274 Methanococcus jannaschii 2190 10091476

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930906	20566	42722	999	332

Description

6500737183 methionyl aminopeptidase:probable methionine aminopeptidase:map:peptidase m (gtcfc:10.7) (ec:3.4.11.18) (keggfc:14.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ1329 MJ1329 Methanococcus jannaschii 2190 -11541041 119950 map:mj1329 (ec:3.4.11.18) (de:methionine aminopeptidase, (map) (peptidase m)) (db:swissprot) AMPM_METJA Q58725 METHANOCOCCUS JANNASCHII 2190 -11541041 174323 methionyl aminopeptidase (cl:escherichia coli methionyl aminopeptidase) (ec:3.4.11.18) (db:pir2.dat) (mp:for1279384-1280268) H64465 H64465 Methanococcus jannaschii 2190 -11541041 247762 mj1329 methionyl aminopeptidase map (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:similar to gb:m26978 sp:p22624 pid:551896 percent) (le:4049) (re:4933) (di:direct) U67573 U67573 g1591970 Methanococcus jannaschii 2190 -11541041 5000698249 (de:(mj1329) (pn:probable methionine aminopeptidase:map:peptidase m:methionine aminopeptidase) (gtcfc:10.5) (ec:3.4.11.18) (ampm_metja) (keggfc:11.1) (tigrfc:12.4) (db:gtc-methanococcus jannaschii)) MJ1329 MJ1329 Methanococcus jannaschii 2190 10062722

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930914	20567	42723	2265	754

Description

6500737184 putative transmembrane oligosaccharyl transferase:oligosaccharyl transferase stt3 subunit related protein (gtcfc:10.7) (ec:2.-.-.-) (keggfc:14.1) (tigrfc:12.3) (db:gtc-methanococcus jannaschii) MJ1525 MJ1525 Methanococcus jannaschii 2190 -11541042 174131 hypothetical protein mj1525 (db:pir2.dat) (mp:for1501704-1504505) D64490 D64490 Methanococcus jannaschii 2190 -11541042 247958 mj1525 putative transmembrane oligosaccharyl (db:genpept-bct1) (de:methanococcus jannaschii section 135 of 150 of the complete genome.) (nt:similar to gb:l38961 sp:p46977 pid:624704 percent) (le:9747) (re:12548) (di:direct) U67593 U67593 g1592155 Methanococcus jannaschii 2190 -11541042 5000698250 (de:(mj1525) (pn:oligosaccharyl transferase stt3 subunit isolog) (gtcfc:10.5) (ec:) (keggfc:11.2) (tigrfc:12.4) (db:gtc-methanococcus jannaschii)) MJ1525 MJ1525 Methanococcus jannaschii 2190 10092252

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930928	20568	42724	258	85

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930931	20569	42725	1041	346

Description

5000698255 translation initiation factor eif-2:subunit beta:eif-2beta:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0097 MJ0097 Methanococcus jannaschii 2190 -11541043 118781 mj0097 (de:probable translation initiation factor 2 beta subunit (eif-2-beta)) (db:swissprot) IF2B_METJA Q57562 METHANOCOCCUS JANNASCHII 2190 -11541043 174582 probable translation initiation factor eif-2 beta homolog (cl:methanococcus jannaschii probable translation initiation factor eif-2 beta) (db:pir2.dat) (mp:rev91476-91045) A64312 A64312 Methanococcus jannaschii 2190 -11541043 246531 mj0097 translation initiation factor aif-2:subunit (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:similar to gp:1732361 percent identity: 33.58;) (le:1541) (re:1972) (di:complement) U67467 U67467 g1498862 Methanococcus jannaschii 2190 -11541043 6500737185 translation initiation factor eif-2:subunit beta:eif-2beta:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0097 MJ0097 Methanococcus jannaschii 2190 -11541043

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930934	20570	42726	510	169

Description

5000698256 translation initiation factor eif-2:subunit alpha:eif2a:putative translation initiation factor 2 alpha subunit:eif-2-alpha (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0117 MJ0117 Methanococcus jannaschii 2190 -11541044 120256 mj0117 (de:probable translation initiation factor 2 alpha subunit (eif-2-alpha)) (db:swissprot) IF2A_METJA Q57581 METHANOCOCCUS JANNASCHII 2190 -11541044 174586 translation initiation factor aif-2 alpha chain (cl:translation initiation factor eif-2 alpha chain) (db:pir2.dat) (mp:rev114962-114162) E64314 E64314 Methanococcus jannaschii 2190 -11541044 246551 mj0117 translation initiation factor aif-2:subunit (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to gb:j02645 gb:x12421 gb:d28379 sp:p05198) (le:2532) (re:3332) (di:complement) U67469 U67469 g1592263 Methanococcus jannaschii 2190 -11541044 6500737186 translation initiation factor eif-2:subunit alpha:eif2a:putative translation initiation factor 2 alpha subunit:eif-2-alpha (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0117 MJ0117 Methanococcus jannaschii 2190 -11541044

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930936	20571	42727	612	203

Description

5000698257 translation initiation factor eif-2b:subunit delta:putative:putative translation initiation factor eif-2b subunit 2:eif-2b gdp-gtp exchange factor (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0122 MJ0122 Methanococcus jannaschii 2190 -11541045 118107 mj0122 (de:gdp-gtp exchange factor)) (db:swissprot) E2B2_METJA Q57586 METHANOCOCCUS JANNASCHII 2190 -11541045 174583 translation initiation factor eif-2b delta chain homolog (cl:translation initiation factor eif-2b) (db:pir2.dat) (mp:rev119157-118231) B64315 B64315 Methanococcus jannaschii 2190 -11541045 246556 mj0122 translation initiation factor aif-2b:subunit (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to gp:529430 percent identity: 29.32;) (le:6601) (re:7527) (di:complement) U67469 U67469 g1590893 Methanococcus jannaschii 2190 -11541045 6500737187 translation initiation factor eif-2b:subunit delta:putative:putative translation initiation factor eif-2b subunit 2:eif-2b gdp-gtp exchange factor (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0122 MJ0122 Methanococcus jannaschii 2190 -11541045

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930943	20572	42728	300	99

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930944	20573	42729	525	174

Description

5000698258 translation initiation factor bif-2:putative:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0262 MJ0262 Methanococcus jannaschii 2190 -11541046 500685005 infb:mj0262 (de:probable translation initiation factor if-2) (db:swissprot) IF2P_METJA Q57710 METHANOCOCCUS JANNASCHII 2190 -11541046 173136 fun12/bif-2 family probable translation initiation factor homolog intein-containing (cl:translation elongation factor tu homology) (db:pir2.dat) (mp:for247244-250711) G64332 G64332 Methanococcus jannaschii 2190 -11541046 246697 mj0262 translation initiation factor aif-2 infb (db:genpept-bct1) (de:methanococcus jannaschii section 23 of 150 of the complete genome.) (nt:similar to sp:p39730 pid:1326056 percent identity:) (le:4591) (re:8058) (di:direct) U67481 U67481 g1590990 Methanococcus jannaschii 2190 -11541046 6500737188 translation initiation factor bif-2:putative:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0262 MJ0262 Methanococcus jannaschii 2190 -11541046

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930947	20574	42730	474	157

Description

6500737189 tuf:mj0324 translation elongation factor ef-1:subunit alpha:elongation factor 1-alpha:ef-1-alpha:elongation factor tu:ef-tu (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0324 MJ0324 Methanococcus jannaschii 2190 -11541047 118082 tuf:mj0324 (de:elongation factor 1-alpha (ef-1-alpha) (elongation factor tu) (ef-tu)) (db:swissprot) EF1A_METJA Q57770 METHANOCOCCUS JANNASCHII 2190 -11541047 174581 translation elongation factor ef-1 alpha (cl:translation elongation factor tu:translation elongation factor tu homology) (db:pir2.dat) (mp:rev300814-299528) D64340 D64340 Methanococcus jannaschii 2190 -11541047 246758 mj0324 translation elongation factor ef-1:subunit (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:similar to sp:p07810 gb:x05698 pid:44779 percent) (le:8450) (re:9736) (di:complement) U67486 U67486 g1591042 Methanococcus jannaschii 2190 -11541047 5000698259 (de:(mj0324) (pn:elongation factor 1-alpha:ef-1-alpha:elongation factor tu:ef-tu:translation elongation factor, ef-1 alpha) (gn:tuf) (gtcfc:10.6:13.7) (ec:) (efla_metja) (keggfc:11.2) (tigrfc:12.7) (db:gtc-methanococcus jannasch) MJ0324 MJ0324 Methanococcus jannaschii 2190 10060113

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930949	20575	42731	693	230

Description

5000698681 atp-dependent rna helicase:putative:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0383 MJ0383 Methanococcus jannaschii 2190 -11541048 4000708257 mj0383 (de:hypothetical protein mj0383) (db:swissprot) Y383_METJA Q57828 METHANOCOCCUS JANNASCHII 2190 -11541048 173503 hypothetical protein mj0383 (db:pir2.dat) (mp:for347677-349521) G64347 G64347 Methanococcus jannaschii 2190 -11541048 246817 mj0383 atp-dependent rna helicase:putative (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:similar to sp:p23304 gb:m63288 gb:u03750 pid:432406) (le:2136) (re:3980) (di:direct) U67491 U67491 g1591089 Methanococcus jannaschii 2190 -11541048 6500737190 atp-dependent rna helicase:putative:hypothetical protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0383 MJ0383 Methanococcus jannaschii 2190 -11541048

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930952	20576	42732	531	176

Description

5000698260 translation initiation factor eif-1a:putative translation initiation factor 1a:eif-1a (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0445 MJ0445 Methanococcus jannaschii 2190 -11541049 4000707903 mj0445 (de:putative translation initiation factor 1a (eif-1a)) (db:swissprot) IF1A_METJA Q57887 METHANOCOCCUS JANNASCHII 2190 -11541049 174585 translation initiation factor aif-1a (cl:translation initiation factor aif-1a) (db:pir2.dat) (mp:rev399183-398875) E64355 E64355 Methanococcus jannaschii 2190 -11541049 246879 mj0445 translation initiation factor aif-1a (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to sp:q03590 gb:x68198 pid:48095 percent) (le:158) (re:466) (di:complement) U67496 U67496 g1592291 Methanococcus jannaschii 2190 -11541049 6500737191 translation initiation factor eif-1a:putative translation initiation factor 1a:eif-1a (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0445 MJ0445 Methanococcus jannaschii 2190 -11541049

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930955	20577	42733	417	138

Description

5000698261 translation initiation factor eif-2b:subunit alpha:gcn3:putative translation initiation factor eif-2b subunit 1:eif-2b gdp-gtp exchange factor (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0454 MJ0454 Methanococcus jannaschii 2190 -11541050 118102 mj0454 (de:gdp-gtp exchange factor)) (db:swissprot) E2B1_METJA Q57896 METHANOCOCCUS JANNASCHII 2190 -11541050 174588 translation initiation factor aif-2b alpha chain (cl:translation initiation factor eif-2b) (db:pir2.dat) (mp:rev406282-405293) F64356 F64356 Methanococcus jannaschii 2190 -11541050 246888 mj0454 translation initiation factor aif-2b:subunit (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to sp:p41111 percent identity: 28.77;) (le:6576) (re:7565) (di:complement) U67496 U67496 g1591158 Methanococcus jannaschii 2190 -11541050 6500737192 translation initiation factor eif-2b:subunit alpha:gcn3:putative translation initiation factor eif-2b subunit 1:eif-2b gdp-gtp exchange factor (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0454 MJ0454 Methanococcus jannaschii 2190 -11541050

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930958	20578	42734	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930961	20579	42735	519	172

Description

5000699424 translation elongation factor ef-1:subunit beta:m (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0459 MJ0459 Methanococcus jannaschii 2190 -11541051 7500880885 mj0459 (de:elongation factor 1-beta (ef-1-beta)) (db:swissprot) EF1B_METJA Q57901 METHANOCOCCUS JANNASCHII 2190 -11541051 173547 hypothetical protein mj0459 (cl:sulfolobus solfataricus translation elongation factor aef-1 beta) (db:pir2.dat) (mp:for410088-410357) C64357 C64357 Methanococcus jannaschii 2190 -11541051 7500880887 mj0459 m. jannaschii predicted coding region mj0459 (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:brute force orf; identified by genemark; putative) (le:235) (re:504) (di:direct) U67497 U67497 g1592292 Methanococcus jannaschii 2190 -11541051 6500737193 translation elongation factor ef-1:subunit beta:m (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0459 MJ0459 Methanococcus jannaschii 2190 -11541051 246893 mju67497 (le:410088) (re:410357) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0459 gn:mj0459 le:146 re:415 di:direct nt:identified by genemark; putative) U67497 U67497 g1592292 Methanococcus jannaschii 2190 -11541051

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930964	20580	42736	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930967	20581	42737	450	149

Description

5000698262 putative translation factor:ef-1 alpha family:putative translation factor:ef-tu/1 alpha family (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0495 MJ0495 Methanococcus jannaschii 2190 -11541052 5500686325 mj0495 (de:hypothetical gtp-binding protein mj0495) (db:swissprot) Y495_METJA Q57918 METHANOCOCCUS JANNASCHII 2190 -11541052 173083 translation initiation factor eif-2 (cl:translation elongation factor tu homology) (db:pir2.dat) (mp:for436913-438322) G64361 G64361 Methanococcus jannaschii 2190 -11541052 246929 mj0495 putative translation factor:ef-1 alpha family (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:similar to gp:1483309 percent identity: 35.22;) (le:6150) (re:7559) (di:direct) U67499 U67499 g1591199 Methanococcus jannaschii 2190 -11541052 6500737194 putative translation factor:ef-1 alpha family:putative translation factor:ef-tu/1 alpha family (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0495 MJ0495 Methanococcus jannaschii 2190 -11541052

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930968	20582	42738	1218	405

Description

5000698264 peptide chain release factor erf:subunit 1:eukaryotic-type peptide chain release factor subunit 1:erf1 (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0829 MJ0829 Methanococcus jannaschii 2190 -11541053 121046 mj0829 (de:eukaryotic-type peptide chain release factor subunit 1 (erf1)) (db:swissprot) ERF1_METJA Q58239 METHANOCOCCUS JANNASCHII 2190 -11541053 174399 peptide chain release factor erf chain 1 homolog (cl:translation releasing factor erf-1) (db:pir2.dat) (mp:for748829-750106) E64403 E64403 Methanococcus jannaschii 2190 -11541053 247263 mj0829 peptide chain release factor arf:subunit 1 (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:similar to gb:u40217 pid:1155261 pid:17389 percent) (le:7038) (re:8315) (di:direct) U67526 U67526 g1591516 Methanococcus jannaschii 2190 -11541053 6500737195 peptide chain release factor erf:subunit 1:eukaryotic-type peptide chain release factor subunit 1:erf1 (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ0829 MJ0829 Methanococcus jannaschii 2190 -11541053

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930970	20583	42739	276	91

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930980	20584	42740	267	88

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930986	20585	42741	525	174

Description

6500737196 fus:mj1048 translation elongation factor ef-2:elongation factor 2:ef-2 (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ1048 MJ1048 Methanococcus jannaschii 2190 -11541054 118086 fus:mj1048 (de:elongation factor 2 (ef-2)) (db:swissprot) EF2_METJA Q58448 METHANOCOCCUS JANNASCHII 2190 -11541054 131248 fus translation elongation factor aef-2 (cl:translation elongation factor 2:translation elongation factor tu homology) (db:pir1.dat) (mp:for983850-986030) G64430 G64430 Methanococcus jannaschii 2190 -11541054 247481 mj1048 translation elongation factor ef-2 (db:genpept-bct1) (de:methanococcus jannaschii section 89 of 150 of the complete genome.) (nt:similar to sp:p09604 gb:x12384 pid:44710 percent) (le:9327) (re:11507) (di:direct) U67547 U67547 g1591702 Methanococcus jannaschii 2190 -11541054 5000698265 (de:(mj1048) (pn:elongation factor 2:ef-2:translation elongation factor, ef-2) (gn:fus) (gtcfc:10.6:13.7) (ec:) (ef2_metja) (keggfc:11.2) (tigrfc:12.7) (db:gtc-methanococcus jannaschii)) MJ1048 MJ1048 Methanococcus jannaschii 2190 10060117

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930989	20586	42742	213	70

Description

5000698266 translation initiation factor eif-5a:possible initiation factor 5a:if-5a:hypusine-containing protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ1228 MJ1228 Methanococcus jannaschii 2190 -11541055 174584 translation initiation factor eif-5a homolog (cl:translation initiation factor eif-5a) (db:pir2.dat) (mp:rev1171531-1171124) C64453 C64453 Methanococcus jannaschii 2190 -11541055 119700 mj1228 (de:possible initiation factor 5a (if-5a) (hypusine-containing protein)) (db:swissprot) IF5A_METJA Q58625 METHANOCOCCUS JANNASCHII 2190 -11541055 6500737197 translation initiation factor eif-5a:possible initiation factor 5a:if-5a:hypusine-containing protein (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ1228 MJ1228 Methanococcus jannaschii 2190 -11541055 247661 mju67563 (le:1171124) (re:1171531) (di:direct) (de:or:methanococcus jannaschii pn:translation initiation factor, eif-5a gn:mj1228 le:8926 re:9333 di:complement nt:similar to p28461 percent identity: 49.6;) U67563 U67563 g1591859 Methanococcus jannaschii 2190 -11541055

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930993	20587	42743	474	157

Description

5000698267 translation initiation factor eif-2:subunit gamma:eif2g:putative translation initiation factor 2 gamma subunit:eif-2-gamma (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ1261 MJ1261 Methanococcus jannaschii 2190 -11541056 1500686038 mj1261 (de:putative translation initiation factor 2 gamma subunit (eif-2-gamma)) (db:swissprot) IF2G_METJA Q58657 METHANOCOCCUS JANNASCHII 2190 -11541056 174587 translation initiation factor aif-2 gamma chain (cl:translation elongation factor tu:translation elongation factor tu homology) (db:pir2.dat) (mp:for1202889-1204202) D64457 D64457 Methanococcus jannaschii 2190 -11541056 247694 mj1261 translation initiation factor aif-2:subunit (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:similar to gb:l19161 sp:p41091 pid:306900 percent) (le:7001) (re:8314) (di:direct) U67566 U67566 g1591895 Methanococcus jannaschii 2190 -11541056 6500737198 translation initiation factor eif-2:subunit gamma:eif2g:putative translation initiation factor 2 gamma subunit:eif-2-gamma (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ1261 MJ1261 Methanococcus jannaschii 2190 -11541056

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501930998	20588	42744	1050	349

Description

5000699230 putative atp dependent rna helicase:m (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ1401 MJ1401 Methanococcus jannaschii 2190 -11541057 174050 hypothetical protein mj1401 (cl:unassigned dead/h box helicases:dead/h box helicase homology) (db:pir2.dat) (mp:for1360261-1362687) H64474 H64474 Methanococcus jannaschii 2190 -11541057 247834 mj1401 putative atp dependent rna helicase (db:genpept-bct1) (de:methanococcus jannaschii section 122 of 150 of the complete genome.) (nt:similar to sp:p32639 pid:603413 percent identity:) (le:3865) (re:6291) (di:direct) U67580 U67580 g1592049 Methanococcus jannaschii 2190 -11541057 6500737199 putative atp dependent rna helicase:m (gtcfc:10.7) (keggfc:14.2) (tigrfc:12.6) (db:gtc-methanococcus jannaschii) MJ1401 MJ1401 Methanococcus jannaschii 2190 -11541057

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931015	20589	42745	3762	1253

Description

5000698273 dna-binding protein:probably dna helicase:transcriptional control factor:enhancer-binding protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0104 MJ0104 Methanococcus jannaschii 2190 -11541058 120029 mj0104 (de:hypothetical atp-binding protein mj0104) (db:swissprot) Y104_METJA Q57568 METHANOCOCCUS JANNASCHII 2190 -11541058 174446 probable dna helicase mj0104 (cl:probable dna helicase mj0104) (db:pir2.dat) (mp:for99243-101234) H64312 H64312 Methanococcus jannaschii 2190 -11541058 246538 mj0104 dna-binding protein:probably dna helicase (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:similar to gb:m64979 gb:l14754 gb:l24544 sp:p38935) (le:9739) (re:11730) (di:direct) U67467 U67467 g1590880 Methanococcus jannaschii 2190 -11541058 6500737200 dna-binding protein:probably dna helicase:transcriptional control factor:enhancer-binding protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0104 MJ0104 Methanococcus jannaschii 2190 -11541058

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931033	20590	42746	1653	551

Description

5000698274 type i restriction-modification enzyme 2:r subunit:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0124 MJ0124 Methanococcus jannaschii 2190 -11541059 174599 type i restriction enzyme homolog (db:pir2.dat) (mp:rev123002-119511) D64315 D64315 Methanococcus jannaschii 2190 -11541059 118796 mj0124 (de:hypothetical protein mj0124) (db:swissprot) Y124_METJA Q57588 METHANOCOCCUS JANNASCHII 2190 -11541059 6500737201 type i restriction-modification enzyme 2:r subunit:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0124 MJ0124 Methanococcus jannaschii 2190 -11541059 246558 mju67469 (le:119511) (re:123002) (di:direct) (de:or:methanococcus jannaschii pn:type i restriction enzyme gn:mj0124 le:7881 re:11372 di:complement nt:similar to egad:hi1285 percent identity: 31.0;) U67469 U67469 g1592264 Methanococcus jannaschii 2190 -11541059

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931056	20591	42747	588	195

Description

6500737202 type i restriction-modification enzyme 2:s subunit:type i restriction modification system:subunit s (gtcfc:10.8) (ec:3.1.21.3) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0130 MJ0130 Methanococcus jannaschii 2190 -11541060 174468 restriction modification system s chain homolog (cl:restriction modification system s chain) (db:pir2.dat) (mp:rev126456-125179) B64316 B64316 Methanococcus jannaschii 2190 -11541060 118802 mj0130 (de:hypothetical protein mj0130) (db:swissprot) Y130_METJA Q57594 METHANOCOCCUS JANNASCHII 2190 -11541060 246564 mju67470 (le:125179) (re:126456) (di:direct) (de:or:methanococcus jannaschii pn:restriction modification system s subunit gn:mj0130 le:790 re:2067 di:complement nt:similar to u25815_1 percent identity: 28.8;) U67470 U67470 g1592266 Methanococcus jannaschii 2190 -11541060 5000698275 (de:(mj0130) (pn:hypothetical protein mj0130:restriction modification system s subunit) (gtcfc:10.8) (ec:) (y130_metja) (keggfc:11.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0130 MJ0130 Methanococcus jannaschii 2190 10061164

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931058	20592	42748	1173	390

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931077	20593	42749	288	95

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931120	20594	42750	189	62

Description

5000698276 type i restriction-modification enzyme 2:m subunit:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0132 MJ0132 Methanococcus jannaschii 2190 -11541061 118804 mj0132 (de:hypothetical protein mj0132) (db:swissprot) Y132_METJA Q57596 METHANOCOCCUS JANNASCHII 2190 -11541061 174467 restriction modification enzyme subunit m1 homolog (db:pir2.dat) (mp:rev127472-126810) D64316 D64316 Methanococcus jannaschii 2190 -11541061 246566 mj0132 type i restriction-modification enzyme 2:m (db:genpept-bct1) (de:methanococcus jannaschii section 12 of 150 of the complete genome.) (nt:similar to gb:l25415 pid:496158 percent identity:) (le:2420) (re:3082) (di:complement) U67470 U67470 g1592267 Methanococcus jannaschii 2190 -11541061 6500737203 type i restriction-modification enzyme 2:m subunit:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0132 MJ0132 Methanococcus jannaschii 2190 -11541061

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931135	20595	42751	285	94

Description

6500737204 rnhb:ribonuclease hii (gtcfc:10.8) (ec:3.1.26.4) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0135 MJ0135 Methanococcus jannaschii 2190 -11541062 118807 mj0135 (de:hypothetical protein mj0135) (db:swissprot) Y135_METJA Q57599 METHANOCOCCUS JANNASCHII 2190 -11541062 174472 ribonuclease h:ii (ec:3.1.26.4) (db:pir2.dat) (mp:rev131111-130419) G64316 G64316 Methanococcus jannaschii 2190 -11541062 246569 mj0135 ribonuclease hii rnhb (db:genpept-bct1) (de:methanococcus jannaschii section 12 of 150 of the complete genome.) (nt:similar to sp:p10442 pid:1208954 gb:u00096) (le:6029) (re:6721) (di:complement) U67470 U67470 g1590900 Methanococcus jannaschii 2190 -11541062 5000698277 (de:(mj0135) (pn:hypothetical protein mj0135:ribonuclease hii:rnhb) (gtcfc:10.8) (ec:) (y135_metja) (keggfc:11.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0135 MJ0135 Methanococcus jannaschii 2190 10061169

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931136	20596	42752	375	124

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931138	20597	42753	483	160

Description

6500737205 lig:mj0171 dna ligase:dna ase:polydeoxyribonucleotide synthase:atp (gtcfc:10.8) (ec:6.5.1.1) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0171 MJ0171 Methanococcus jannaschii 2190 -11541063 118029 lig:mj0171 (ec:6.5.1.1) (de:dna ligase, (polydeoxyribonucleotide synthase (atp))) (db:swissprot) DNLI_METJA Q57635 METHANOCOCCUS JANNASCHII 2190 -11541063 173060 dna ligase atp (cl:dna ligase) (ec:6.5.1.1) (db:pir2.dat) (mp:rev175026-173305) D64321 D64321 Methanococcus jannaschii 2190 -11541063 246606 mj0171 dna ligase lig (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to sp:q02093 gb:x63438 pid:40786 percent) (le:2582) (re:4303) (di:complement) U67474 U67474 g1590924 Methanococcus jannaschii 2190 -11541063 5000698278 (de:(mj0171) (pn:dna ase:polydeoxyribonucleotide synthase:atp:dna ligase) (gn:lig) (gtcfc:10.8) (ec:6.5.1.1) (dnli_metja) (keggfc:11.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0171 MJ0171 Methanococcus jannaschii 2190 10060049

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931145	20598	42754	459	152

Description

5000698279 proliferating-cell nuclear antigen:pol30:proliferating cell nuclear antigen homolog:pcna (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0247 MJ0247 Methanococcus jannaschii 2190 -11541064 500685202 mj0247 (de:proliferating cell nuclear antigen homolog (pcna)) (db:swissprot) PCNA_METJA Q57697 METHANOCOCCUS JANNASCHII 2190 -11541064 174450 proliferating-cell nuclear antigen homolog (db:pir2.dat) (mp:for234299-235042) H64330 H64330 Methanococcus jannaschii 2190 -11541064 246682 mj0247 proliferating-cell nuclear antigen pol30 (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to sp:p15873 pid:4193 pid:476047 pid:536356) (le:2228) (re:2971) (di:direct) U67480 U67480 g1590980 Methanococcus jannaschii 2190 -11541064 6500737206 proliferating-cell nuclear antigen:pol30:proliferating cell nuclear antigen homolog:pcna (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0247 MJ0247 Methanococcus jannaschii 2190 -11541064

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931146	20599	42755	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931147	20600	42756	801	266

Description

5000698280 dna repair protein rec:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0254 MJ0254 Methanococcus jannaschii 2190 -11541065 500685266 mj0254 (de:hypothetical protein mj0254) (db:swissprot) Y254_METJA Q57702 METHANOCOCCUS JANNASCHII 2190 -11541065 173064 dna repair protein rad51 (cl:dna repair protein rad51) (db:pir2.dat) (mp:for239969-240607) G64331 G64331 Methanococcus jannaschii 2190 -11541065 246689 mj0254 dna repair protein rec (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to gp:1841887 percent identity: 36.51;) (le:7898) (re:8536) (di:direct) U67480 U67480 g1590984 Methanococcus jannaschii 2190 -11541065 6500737207 dna repair protein rec:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0254 MJ0254 Methanococcus jannaschii 2190 -11541065

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931148	20601	42757	774	257

Description

5000698672 dna topoisomerase iv:subunit a:parc:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0369 MJ0369 Methanococcus jannaschii 2190 -11541066 4000708247 top6a:mj0369 (ec:5.99.1.3) (de:type ii dna topoisomerase vi subunit a,) (db:swissprot) TP6A_METJA Q57815 METHANOCOCCUS JANNASCHII 2190 -11541066 173493 hypothetical protein mj0369 (cl:conserved hypothetical protein mj0369) (db:pir2.dat) (mp:rev336040-334931) A64346 A64346 Methanococcus jannaschii 2190 -11541066 246803 mj0369 dna topoisomerase vi:subunit a top6a (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to gp:1926404 percent identity: 34.89;) (le:530) (re:1639) (di:complement) U67490 U67490 g1591076 Methanococcus jannaschii 2190 -11541066 6500737208 dna topoisomerase iv:subunit a:parc:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0369 MJ0369 Methanococcus jannaschii 2190 -11541066

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931152	20602	42758	258	85

Description

6500737209 modification methylase:type ii r/m system:probable modification methylase mj0563:cytosine-specific methyltransferase mj0563 (gtcfc:10.8) (ec:2.1.1.73) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0563 MJ0563 Methanococcus jannaschii 2190 -11541067 4000709577 mj0563 (ec:2.1.1.73) (de:specific methyltransferase mj0563)) (db:swissprot) MT51_METJA Q57983 METHANOCOCCUS JANNASCHII 2190 -11541067 174341 modification methylase:homolog (ec:2.1.1.-) (db:pir2.dat) (mp:rev497983-497051) C64370 C64370 Methanococcus jannaschii 2190 -11541067 246997 mj0563 modification methylase:type ii r/m system (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:similar to sp:p50192 percent identity: 35.29;) (le:4575) (re:5507) (di:complement) U67505 U67505 g1591269 Methanococcus jannaschii 2190 -11541067 5000698281 (de:(mj0563) (pn:modification methylase) (gtcfc:10.8) (ec:2.1.1.73) (keggfc:11.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0563 MJ0563 Methanococcus jannaschii 2190 10092385

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931157	20603	42759	264	87

Description

6500737210 modification methylase:type ii r/m system 2:probable modification methylase mj0598:adenine-specific methyltransferase mj0598 (gtcfc:10.8) (ec:2.1.1.72) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0598 MJ0598 Methanococcus jannaschii 2190 -11541068 4000709581 mj0598 (ec:2.1.1.72) (de:methyltransferase mj0598)) (db:swissprot) MT61_METJA Q58015 METHANOCOCCUS JANNASCHII 2190 -11541068 174342 modification methylase:homolog (cl:mboa protein) (ec:2.1.1.-) (db:pir2.dat) (mp:for529637-530506) F64374 F64374 Methanococcus jannaschii 2190 -11541068 247032 mj0598 modification methylase:type ii r/m system 2 (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to gb:d13968 sp:p34720 pid:303628 percent) (le:4090) (re:4959) (di:direct) U67508 U67508 g1591307 Methanococcus jannaschii 2190 -11541068 5000698282 (de:(mj0598) (pn:modification methylase) (gtcfc:10.8) (ec:) (keggfc:11.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0598 MJ0598 Methanococcus jannaschii 2190 10092386

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931179	20604	42760	210	69

Description

6500737211 restriction enzyme:type ii r/m system 2:probable type ii restriction enzyme mj0600:endonuclease mj0600 (gtcfc:10.8) (ec:3.1.21.4) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0600 MJ0600 Methanococcus jannaschii 2190 -11541069 4000709575 mj0600 (ec:3.1.21.4) (de:mj0600)) (db:swissprot) T2M2_METJA Q58017 METHANOCOCCUS JANNASCHII 2190 -11541069 174603 type ii restriction enzyme dpnii homolog (db:pir2.dat) (mp:for531179-532051) H64374 H64374 Methanococcus jannaschii 2190 -11541069 247034 mj0600 restriction enzyme:type ii r/m system 2 (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to pid:794258 sp:p50177 percent identity:) (le:5632) (re:6504) (di:direct) U67508 U67508 g1591309 Methanococcus jannaschii 2190 -11541069 5000698283 (de:(mj0600) (pn:type ii restriction enzyme dpnii) (gtcfc:10.8) (ec:3.1.21.4) (keggfc:11.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0600 MJ0600 Methanococcus jannaschii 2190 10092502

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931195	20605	42761	255	84

Description

6500737212 endonuclease iii:nth1:putative endonuclease (gtcfc:10.8) (ec:4.2.99.18) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0613 MJ0613 Methanococcus jannaschii 2190 -11541070 173088 endonuclease iii (db:pir2.dat) (mp:rev544997-543936) E64376 E64376 Methanococcus jannaschii 2190 -11541070 117476 mj0613 (de:putative endonuclease mj0613) (db:swissprot) Y613_METJA Q58030 METHANOCOCCUS JANNASCHII 2190 -11541070 247047 mju67509 (le:543936) (re:544997) (di:direct) (de:or:methanococcus jannaschii pn:endonuclease iii gn:mj0613 le:8078 re:9139 di:complement nt:similar to p39788 percent identity: 41.3;) U67509 U67509 g1591323 Methanococcus jannaschii 2190 -11541070 5000698160 (de:(mj0613) (pn:putative endonuclease mj0613:endonuclease iii) (gtcfc:10.10) (ec:4.2.99.18) (y613_metja) (keggfc:11.1) (tigrfc:10.1) (db:gtc-methanococcus jannaschii)) MJ0613 MJ0613 Methanococcus jannaschii 2190 10059299

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931196	20606	42762	1302	433

Description

5000698284 replication initiator protein:putative:dnaa:hypothetical atp-binding protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0632 MJ0632 Methanococcus jannaschii 2190 -11541071 118938 mj0632 (de:hypothetical atp-binding protein mj0632) (db:swissprot) Y632_METJA Q58049 METHANOCOCCUS JANNASCHII 2190 -11541071 173631 hypothetical protein mj0632 (db:pir2.dat) (mp:for558294-559385) H64378 H64378 Methanococcus jannaschii 2190 -11541071 247066 mj0632 replication initiator protein:putative dnaa (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to sp:p35892 pid:416273 percent identity:) (le:12745) (re:13836) (di:direct) U67510 U67510 g1591343 Methanococcus jannaschii 2190 -11541071 6500737213 replication initiator protein:putative:dnaa:hypothetical atp-binding protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0632 MJ0632 Methanococcus jannaschii 2190 -11541071

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931201	20607	42763	462	153

Description

GTC ORF with score 127 to: (de:(ybr078w) (pn:hypothetical 48:strong similarity to sporulation specific sps2p) (gn:ybr0727) (gtcfc:12.15:12.8) (ec:) (ybs8_yeast) (keggfc:11.2) (sgdfc:3.4.0:3.5.0) (db:gtc-saccharomyces cerevisiae))

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931216	20608	42764	699	232

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931219	20609	42765	690	229

Description

5000698936 dna primase:putative:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0839 MJ0839 Methanococcus jannaschii 2190 -11541072 173753 hypothetical protein mj0839 (db:pir2.dat) (mp:rev765923-764856) G64404 G64404 Methanococcus jannaschii 2190 -11541072 5500686430 mj0839 (de:hypothetical protein mj0839) (db:swissprot) Y839_METJA Q58249 METHANOCOCCUS JANNASCHII 2190 -11541072 6500737214 dna primase:putative:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0839 MJ0839 Methanococcus jannaschii 2190 -11541072 247273 mju67528 (le:764856) (re:765923) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0839 gn:mj0839 le:3190 re:4257 di:complement nt:identified by genemark; putative) U67528 U67528 g1591526 Methanococcus jannaschii 2190 -11541072

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931223	20610	42766	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931225	20611	42767	234	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931232	20612	42768	363	120

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931240	20613	42769	1041	346

Description

5000698287 activator 1:replication factor c:53 kd subunit:replication factor c:large subunit (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0884 MJ0884 Methanococcus jannaschii 2190 -11541073 174465 replication factor c large chain homolog (cl:replication factor c large chain) (db:pir2.dat) (mp:for809847-811397) D64410 D64410 Methanococcus jannaschii 2190 -11541073 247318 mj0884 activator 1 replication factor c:53 kd (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:similar to gb:l23320 sp:p35251 pid:296908) (le:6844) (re:8394) (di:direct) U67532 U67532 g1591562 Methanococcus jannaschii 2190 -11541073 6500737215 activator 1:replication factor c:53 kd subunit:replication factor c:large subunit (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0884 MJ0884 Methanococcus jannaschii 2190 -11541073

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931246	20614	42770	771	256

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931247	20615	42771	273	90

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931249	20616	42772	309	102

Description

5000698288 atp-dependent dna helicase ding:putative:ding:probable atp-dependent helicase (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0942 MJ0942 Methanococcus jannaschii 2190 -11541074 7500895713 mj0942 (de:probable atp-dependent helicase mj0942) (db:swissprot) Y942_METJA Q58352 METHANOCOCCUS JANNASCHII 2190 -11541074 174445 probable atp-dependent helicase (cl:unassigned dead/h box helicases:dead/h box helicase homology) (db:pir2.dat) (mp:for871495-873450) F64417 F64417 Methanococcus jannaschii 2190 -11541074 7500895715 mj0942 atp-dependent dna helicase ding:putative ding (db:genpept-bct1) (de:methanococcus jannaschii section 79 of 150 of the complete genome.) (nt:similar to gp:1736447 percent ident: 30.88;) (le:8082) (re:10037) (di:direct) U67537 U67537 g1591610 Methanococcus jannaschii 2190 -11541074 6500737216 atp-dependent dna helicase ding:putative:ding:probable atp-dependent helicase (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0942 MJ0942 Methanococcus jannaschii 2190 -11541074 247376 mju67537 (le:871495) (re:873450) (di:direct) (de:or:methanococcus jannaschii pn:probable atp-dependent helicase gn:mj0942 le:8082 re:10037 di:direct nt:similar to egad:hi0387 percent identity: 31.8;) U67537 U67537 g1591610 Methanococcus jannaschii 2190 -11541074

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931256	20617	42773	1701	566

Description

6500737217 restriction enzyme:type ii r/m system 1:probable type ii restriction enzyme mj0984:endonuclease mj0984 (gtcfc:10.8) (ec:3.1.21.4) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0984 MJ0984 Methanococcus jannaschii 2190 -11541075 4000709576 mj0984 (ec:3.1.21.4) (de:type ii restriction enzyme mjai, (endonuclease mjai)) (db:swissprot) T2M1_METJA Q58391 METHANOCOCCUS JANNASCHII 2190 -11541075 174604 type ii restriction enzyme homolog (cl:methanobacterium mthzim protein) (db:pir2.dat) (mp:for915789-916457) H64422 H64422 Methanococcus jannaschii 2190 -11541075 247418 mj0984 restriction enzyme:type ii r/m system 1 (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:similar to percent identity: 47.06; identified by) (le:4687) (re:5355) (di:direct) U67541 U67541 g1591646 Methanococcus jannaschii 2190 -11541075 5000698290 (de:(mj0984) (pn:type ii restriction enzyme) (gtcfc:10.8) (ec:3.1.21.4) (keggfc:11.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0984 MJ0984 Methanococcus jannaschii 2190 10092503

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931259	20618	42774	579	192

Description

6500737218 modification methylase:type ii r/m system 1:modification methylase mj0985:n-4 cytosine-specific methyltransferase mj0985 (gtcfc:10.8) (ec:2.1.1.113) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ0985 MJ0985 Methanococcus jannaschii 2190 -11541076 4000709579 mj0985 (ec:2.1.1.113) (de:methyltransferase mjai) (m.mjai)) (db:swissprot) MTM1_METJA Q58392 METHANOCOCCUS JANNASCHII 2190 -11541076 174345 modification methylase (cl:site-specific dna-methyltransferase (adenine-specific) hpai) (db:pir2.dat) (mp:rev917375-916464) A64423 A64423 Methanococcus jannaschii 2190 -11541076 247419 mj0985 modification methylase:type ii r/m system 1 (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:similar to sp:p29568 percent identity: 53.11;) (le:5362) (re:6273) (di:complement) U67541 U67541 g1591647 Methanococcus jannaschii 2190 -11541076 5000698291 (de:(mj0985) (pn:modification methylase) (gtcfc:10.8) (ec:2.1.1.113) (keggfc:11.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ0985 MJ0985 Methanococcus jannaschii 2190 10092389

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931264	20619	42775	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931288	20620	42776	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931290	20621	42777	357	118

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931297	20622	42778	624	207

Description

GTC ORF with score 157 to: (sr:pyrococcus horikoshii (strain:ot3) dna) (db:genpept-bct2) (de:pyrococcus horikoshii ot3 genomic dna, 544001-777000 nt. position(3/7).) (nt:motif=prokaryotic membrane lipoprotein lipid) (le:67676) (re:68116) (di:complement)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931319	20623	42779	2139	712

Description

GTC ORF with score 2027 to: (fn:essential replication factor) (sr:fission yeast) (db:genpept-pln2) (de:schizosaccharomyces pombe minichromosome maintenance protein mcm7p(mcm7+) gene, complete cds.) (le:382) (re:2664) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931327	20624	42780	327	108

Description

5000699036 dna topoisomerase iv:subunit b:pare:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1028 MJ1028 Methanococcus jannaschii 2190 -11541077 7500893299 top6b:mj1028 (ec:5.99.1.3) (de:type ii dna topoisomerase vi subunit b,) (db:swissprot) TP6B_METJA Q58434 METHANOCOCCUS JANNASCHII 2190 -11541077 173851 hypothetical protein mj1028 (cl:archaeoglobus fulgidus probable dna topoisomerase vi chain b) (db:pir2.dat) (mp:for959556-961616) C64428 C64428 Methanococcus jannaschii 2190 -11541077 7500893301 mj1028 dna topoisomerase vi:subunit b top6b (db:genpept-bct1) (de:methanococcus jannaschii section 87 of 150 of the complete genome.) (nt:similar to gp:1926403 percent ident: 38.26;) (le:7731) (re:9791) (di:direct) U67545 U67545 g1591683 Methanococcus jannaschii 2190 -11541077 6500737219 dna topoisomerase iv:subunit b:pare:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1028 MJ1028 Methanococcus jannaschii 2190 -11541077 247461 mju67545 (le:959556) (re:961616) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1028 gn:mj1028 le:7731 re:9791 di:direct nt:identified by genemark; putative) U67545 U67545 g1591683 Methanococcus jannaschii 2190 -11541077

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931330	20625	42781	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931331	20626	42782	3243	1080

Description

6500737220 modification methylase:type ii r/m system:probable modification methylase mj1200:cytosine-specific methyltransferase mj1200 (gtcfc:10.8) (ec:2.1.1.73) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1200 MJ1200 Methanococcus jannaschii 2190 -11541078 4000709578 mj1200 (ec:2.1.1.73) (de:specific methyltransferase mj1200)) (db:swissprot) MT52_METJA Q58600 METHANOCOCCUS JANNASCHII 2190 -11541078 174343 modification methylase:homolog (ec:2.1.1.-) (db:pir2.dat) (mp:rev1146212-1145112) G64449 G64449 Methanococcus jannaschii 2190 -11541078 247633 mj1200 modification methylase:type ii r/m system (db:genpept-bct1) (de:methanococcus jannaschii section 103 of 150 of the complete genome.) (nt:similar to sp:p05302 percent identity: 40.20;) (le:7857) (re:8957) (di:complement) U67561 U67561 g1591829 Methanococcus jannaschii 2190 -11541078 5000698293 (de:(mj1200) (pn:modification methylase) (gtcfc:10.8) (ec:2.1.1.73) (keggfc:11.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ1200 MJ1200 Methanococcus jannaschii 2190 10092387

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931338	20627	42783	354	117

Description

5000698294 modification methylase:type ii r/m system:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1209 MJ1209 Methanococcus jannaschii 2190 -11541079 173938 hypothetical protein mj1209 (cl:site-specific dna-methyltransferase (adenine-specific) hpai) (db:pir2.dat) (mp:rev1154067-1153465) H64450 H64450 Methanococcus jannaschii 2190 -11541079 6500737221 modification methylase:type ii r/m system:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1209 MJ1209 Methanococcus jannaschii 2190 -11541079 247642 mju67562 (le:1153465) (re:1154067) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1209 gn:mj1209 le:7243 re:7845 di:complement nt:identified by genemark; putative) U67562 U67562 g1591849 Methanococcus jannaschii 2190 -11541079

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931339	20628	42784	249	82

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931359	20629	42785	189	63

Description

6500737222 type i restriction-modification enzyme 1:r subunit:type i restriction enzyme (gtcfc:10.8) (ec:3.1.21.3) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1214 MJ1214 Methanococcus jannaschii 2190 -11541080 174600 type i restriction enzyme homolog (db:pir2.dat) (mp:rev1159588-1156532) E64451 E64451 Methanococcus jannaschii 2190 -11541080 118862 mj1214 (de:hypothetical protein mj1214) (db:swissprot) YC14_METJA Q58611 METHANOCOCCUS JANNASCHII 2190 -11541080 247647 mju67562 (le:1156532) (re:1159588) (di:direct) (de:or:methanococcus jannaschii pn:type i restriction enzyme gn:mj1214 le:10310 re:13366 di:complement nt:similar to egad:hi1285 percent identity: 27.5;) U67562 U67562 g1591843 Methanococcus jannaschii 2190 -11541080 5000698295 (de:(mj1214) (pn:hypothetical protein mj1214:type i restriction enzyme) (gtcfc:10.8) (ec:) (yc14_metja) (keggfc:11.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ1214 MJ1214 Methanococcus jannaschii 2190 10061301

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931360	20630	42786	624	207

Description

5000698296 type i restriction-modification enzyme 1:s subunit:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1218 MJ1218 Methanococcus jannaschii 2190 -11541081 118866 mj1218 (de:hypothetical protein mj1218) (db:swissprot) YC18_METJA Q58615 METHANOCOCCUS JANNASCHII 2190 -11541081 174602 type i restriction-modification enzyme:s subunit homolog (db:pir2.dat) (mp:rev1161861-1160584) A64452 A64452 Methanococcus jannaschii 2190 -11541081 247651 mj1218 type i restriction-modification enzyme 1:s (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to percent identity: 29.63; identified by) (le:14362) (re:15639) (di:complement) U67562 U67562 g1591847 Methanococcus jannaschii 2190 -11541081 6500737223 type i restriction-modification enzyme 1:s subunit:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1218 MJ1218 Methanococcus jannaschii 2190 -11541081

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931365	20631	42787	660	219

Description

6500737224 type i restriction-modification enzyme 1:m subunit:type i restriction modification enzyme:subunit m (gtcfc:10.8) (ec:3.1.21.3) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1220 MJ1220 Methanococcus jannaschii 2190 -11541082 118867 mj1220 (de:hypothetical protein mj1220) (db:swissprot) YC20_METJA Q58617 METHANOCOCCUS JANNASCHII 2190 -11541082 174466 restriction modification enzyme subunit m1 homolog (cl:type i site-specific deoxyribonuclease chain hsdm) (db:pir2.dat) (mp:rev1163994-1162258) C64452 C64452 Methanococcus jannaschii 2190 -11541082 247653 mj1220 type i restriction-modification enzyme 1:m (db:genpept-bct1) (de:methanococcus jannaschii section 105 of 150 of the complete genome.) (nt:similar to gb:l25415 pid:496158 percent identity:) (le:60) (re:1796) (di:complement) U67563 U67563 g1592326 Methanococcus jannaschii 2190 -11541082 5000698297 (de:(mj1220) (pn:hypothetical protein mj1220:restriction modification enzyme, subunit m1) (gtcfc:10.8) (ec:) (yc20_metja) (keggfc:11.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ1220 MJ1220 Methanococcus jannaschii 2190 10061306

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931373	20632	42788	645	214

Description

5000698162 dna repair protein rad32:rad32:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1323 MJ1323 Methanococcus jannaschii 2190 -11541083 174005 probable phosphoesterase:mj1323 (cl:probable phosphoesterase mj1323:phosphoesterase core homology) (ec:3.1.-.-) (db:pir2.dat) (mp:rev1274491-1273391) B64465 B64465 Methanococcus jannaschii 2190 -11541083 247756 mj1323 dna repair protein rad32 rad32 (db:genpept-bct1) (de:methanococcus jannaschii section 114 of 150 of the complete genome.) (nt:similar to sp:q09683 percent identity: 28.42;) (le:8500) (re:9600) (di:complement) U67572 U67572 g1591963 Methanococcus jannaschii 2190 -11541083 6500737225 dna repair protein rad32:rad32:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1323 MJ1323 Methanococcus jannaschii 2190 -11541083

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931398	20633	42789	237	78

Description

5000698298 modification methylase:type ii r/m system:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1328 MJ1328 Methanococcus jannaschii 2190 -11541084 4000708432 mj1328 (de:hypothetical protein mj1328) (db:swissprot) YD28_METJA Q58724 METHANOCOCCUS JANNASCHII 2190 -11541084 174344 modification methylase:homolog (ec:2.1.1.-) (db:pir2.dat) (mp:for1278483-1279379) G64465 G64465 Methanococcus jannaschii 2190 -11541084 247761 mj1328 modification methylase:type ii r/m system (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44414 pid:1003910) (le:3148) (re:4044) (di:direct) U67573 U67573 g1591969 Methanococcus jannaschii 2190 -11541084 6500737226 modification methylase:type ii r/m system:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1328 MJ1328 Methanococcus jannaschii 2190 -11541084

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931414	20634	42790	1269	422

Description

5000698299 activator 1:replication factor c:35 kd subunit:replication factor c (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1422 MJ1422 Methanococcus jannaschii 2190 -11541085 174464 replication factor c homolog (db:pir2.dat) (mp:rev1393176-1387633) E64477 E64477 Methanococcus jannaschii 2190 -11541085 247855 mj1422 activator 1 replication factor c:35 kd (db:genpept-bct1) (de:methanococcus jannaschii section 125 of 150 of the complete genome.) (nt:similar to sp:p40339 pid:1419942 pid:499704) (le:1729) (re:7272) (di:complement) U67583 U67583 g1592072 Methanococcus jannaschii 2190 -11541085 6500737227 activator 1:replication factor c:35 kd subunit:replication factor c (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1422 MJ1422 Methanococcus jannaschii 2190 -11541085

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931415	20635	42791	720	239

Description

6500737228 endonuclease iii:putative:nth2:endonuclease iii (gtcfc:10.8) (ec:4.2.99.18) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1434 MJ1434 Methanococcus jannaschii 2190 -11541086 173067 dna-apurinic or apyrimidinic site lyase::endonuclease iii (cl:methanococcus jannaschii conserved dna-(apurinic or apyrimidinic site) lyase) (ec:4.2.99.18) (db:pir2.dat) (mp:for1403656-1404318) A64479 A64479 Methanococcus jannaschii 2190 -11541086 247867 mj1434 endonuclease iii:putative nth2 (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:similar to gb:u11289 sp:p39788 pid:533099) (le:7078) (re:7740) (di:direct) U67584 U67584 g1592082 Methanococcus jannaschii 2190 -11541086 5000698163 (de:(mj1434) (pn:endonuclease iii) (gtcfc:10.10) (ec:4.2.99.18) (keggfc:11.1) (tigrfc:10.1) (db:gtc-methanococcus jannaschii)) MJ1434 MJ1434 Methanococcus jannaschii 2190 10091482

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931416	20636	42792	576	191

Description

5000698300 rad2:dna repair protein rad2 (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1444 MJ1444 Methanococcus jannaschii 2190 -11541087 173062 dna repair protein rad2 homolog (cl:conserved hypothetical protein ykl113c) (db:pir2.dat) (mp:for1413334-1414314) C64480 C64480 Methanococcus jannaschii 2190 -11541087 247877 mj1444 dna repair protein rad2 rad2 (db:genpept-bct1) (de:methanococcus jannaschii section 127 of 150 of the complete genome.) (nt:similar to sp:p39750 percent identity: 39.12;) (le:6135) (re:7115) (di:direct) U67585 U67585 g1592090 Methanococcus jannaschii 2190 -11541087 6500737229 rad2:dna repair protein rad2 (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1444 MJ1444 Methanococcus jannaschii 2190 -11541087

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931429	20637	42793	246	81

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931431	20638	42794	1215	405

Description

5000698301 modification methylase:type ii r/m system:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1448 MJ1448 Methanococcus jannaschii 2190 -11541088 174077 hypothetical protein mj1448 (db:pir2.dat) (mp:for1416984-1418576) G64480 G64480 Methanococcus jannaschii 2190 -11541088 247881 mj1448 modification methylase:type ii r/m system (db:genpept-bct1) (de:methanococcus jannaschii section 127 of 150 of the complete genome.) (nt:similar to sp:p14244 percent identity: 30.71;) (le:9785) (re:11377) (di:direct) U67585 U67585 g1592093 Methanococcus jannaschii 2190 -11541088 6500737230 modification methylase:type ii r/m system:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1448 MJ1448 Methanococcus jannaschii 2190 -11541088

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931445	20639	42795	243	80

Description

5000698302 modification methylase:type ii r/m system:probable modification methylase mj1498:n-4 cytosine-specific methyltransferase mj1498 (gtcfc:10.8) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1498 MJ1498 Methanococcus jannaschii 2190 -11541089 4000709580 mj1498 (ec:2.1.1.113) (de:specific methyltransferase mj1498)) (db:swissprot) MT42_METJA Q58893 METHANOCOCCUS JANNASCHII 2190 -11541089 174340 modification methylase:homolog (cl:site-specific dna-methyltransferase (adenine-specific) hpai) (ec:2.1.1.-) (db:pir2.dat) (mp:for1470773-1471651) A64487 A64487 Methanococcus jannaschii 2190 -11541089 247931 mj1498 modification methylase:type ii r/m system (db:genpept-bct1) (de:methanococcus jannaschii section 132 of 150 of the complete genome.) (nt:similar to gb:d10668 sp:p29538 pid:216715 percent) (le:9251) (re:10129) (di:direct) U67590 U67590 g1592134 Methanococcus jannaschii 2190 -11541089 6500737231 modification methylase:type ii r/m system:probable modification methylase mj1498:n-4 cytosine-specific methyltransferase mj1498 (gtcfc:10.8) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1498 MJ1498 Methanococcus jannaschii 2190 -11541089

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931446	20640	42796	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931487	20641	42797	855	284

Description

6500737232 reverse gyrase:intein containing:rgy:reverse gyrase (gtcfc:10.8) (ec:5.99.1.3) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1512 MJ1512 Methanococcus jannaschii 2190 -11541090 174469 reverse gyrase intein-containing (cl:unassigned dead/h box helicases:dead/h box helicase homology) (db:pir2.dat) (mp:for1483759-1488600) G64488 G64488 Methanococcus jannaschii 2190 -11541090 247945 mj1512 reverse gyrase:intein containing rgy (db:genpept-bct1) (de:methanococcus jannaschii section 134 of 150 of the complete genome.) (nt:similar to gp:1698674 percent identity: 49.82;) (le:1823) (re:6664) (di:direct) U67592 U67592 g1500401 Methanococcus jannaschii 2190 -11541090 5000698303 (de:(mj1512) (pn:reverse gyrase) (gtcfc:10.8) (ec:5.99.1.3) (keggfc:11.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ1512 MJ1512 Methanococcus jannaschii 2190 10092462

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931488	20642	42798	282	93

Description

5000698165 exodeoxyribonuclease v:recd:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1519 MJ1519 Methanococcus jannaschii 2190 -11541091 174127 hypothetical protein mj1519 (db:pir2.dat) (mp:for1494096-1497623) F64489 F64489 Methanococcus jannaschii 2190 -11541091 247952 mj1519 exodeoxyribonuclease v recd (db:genpept-bct1) (de:methanococcus jannaschii section 135 of 150 of the complete genome.) (nt:similar to gb:142023 sp:p45158 pid:1007312) (le:2139) (re:5666) (di:direct) U67593 U67593 g1500409 Methanococcus jannaschii 2190 -11541091 6500737233 exodeoxyribonuclease v:recd:m (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1519 MJ1519 Methanococcus jannaschii 2190 -11541091

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931494	20643	42799	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931500	20644	42800	318	105

Description

6500737234 methylated-dna-protein-cysteine methyltransferase:putative:ogt:methylated dna protein cysteine methyltransferase (gtcfc:10.8) (ec:2.1.1.63) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1529 MJ1529 Methanococcus jannaschii 2190 -11541092 174335 methylated-dna--protein-cysteine s-methyltransferase (cl:methylated-dna--protein-cysteine s-methyltransferase:methylated-dna--protein-cysteine s-methyltransferase homology) (ec:2.1.1.63) (db:pir2.dat) (mp:for1506426-1506929) H64490 H64490 Methanococcus jannaschii 2190 -11541092 247962 mj1529 methylated-dna-protein-cysteine (db:genpept-bct1) (de:methanococcus jannaschii section 135 of 150 of the complete genome.) (nt:similar to gb:u00014 pid:466930 sp:p52982 percent) (le:14469) (re:14972) (di:direct) U67593 U67593 g1592159 Methanococcus jannaschii 2190 -11541092 5000698304 (de:(mj1529) (pn:methylated dna protein cysteine methyltransferase) (gtcfc:10.8) (ec:) (keggfc:11.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ1529 MJ1529 Methanococcus jannaschii 2190 10092379

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931505	20645	42801	645	214

Description

5000698305 type i restriction-modification enzyme:s subunit:putative:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1531 MJ1531 Methanococcus jannaschii 2190 -11541093 118882 mj1531 (de:hypothetical protein mj1531) (db:swissprot) YF31_METJA Q58926 METHANOCOCCUS JANNASCHII 2190 -11541093 174598 type i restriction enzyme cfri specificity subunit homolog (db:pir2.dat) (mp:for1507572-1508849) B64491 B64491 Methanococcus jannaschii 2190 -11541093 247964 mj1531 type i restriction-modification enzyme:s (db:genpept-bct1) (de:methanococcus jannaschii section 136 of 150 of the complete genome.) (nt:similar to gb:x17591 pid:40467 percent identity:) (le:579) (re:1856) (di:direct) U67594 U67594 g1592162 Methanococcus jannaschii 2190 -11541093 6500737235 type i restriction-modification enzyme:s subunit:putative:hypothetical protein (gtcfc:10.8) (keggfc:14.2) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1531 MJ1531 Methanococcus jannaschii 2190 -11541093

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931506	20646	42802	243	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931516	20647	42803	624	207

Description

6500737236 topa:dna topoisomerase i (gtcfc:10.8) (ec:5.99.1.2) (keggfc:14.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii) MJ1652 MJ1652 Methanococcus jannaschii 2190 -11541094 173066 dna topoisomerase::topoisomerase i (cl:dna topoisomerase i topa) (ec:5.99.1.2) (db:pir2.dat) (mp:for1633497-1635782) B64506 B64506 Methanococcus jannaschii 2190 -11541094 248084 mj1652 dna topoisomerase i topa {bacillus subtilis (db:genpept-bct1) (de:methanococcus jannaschii section 147 of 150 of the complete genome.) (nt:similar to gb:l27797 sp:p39814 pid:520753) (le:6458) (re:8743) (di:direct) U67605 U67605 g1592234 Methanococcus jannaschii 2190 -11541094 5000698306 (de:(mj1652) (pn:dna topoisomerase i) (gtcfc:10.8) (ec:5.99.1.2) (keggfc:11.1) (tigrfc:10.2) (db:gtc-methanococcus jannaschii)) MJ1652 MJ1652 Methanococcus jannaschii 2190 10091481

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931522	20648	42804	2262	753

Description

5000698492 putative mrna 3-end processing factor 1:hypothetical protein (gtcfc:10.9) (keggfc:14.2) (tigrfc:11.3) (db:gtc-methanococcus jannaschii) MJ0047 MJ0047 Methanococcus jannaschii 2190 -11541095 174287 hypothetical protein ylr277c homolog (db:pir2.dat) (mp:rev48677-47370) G64305 G64305 Methanococcus jannaschii 2190 -11541095 118748 mj0047 (de:hypothetical protein mj0047) (db:swissprot) Y047_METJA Q60355 METHANOCOCCUS JANNASCHII 2190 -11541095 6500737237 putative mrna 3-end processing factor 1:hypothetical protein (gtcfc:10.9) (keggfc:14.2) (tigrfc:11.3) (db:gtc-methanococcus jannaschii) MJ0047 MJ0047 Methanococcus jannaschii 2190 -11541095 246481 mju67462 (le:47370) (re:48677) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein (s51413) gn:mj0047 le:13894 re:15201 di:complement nt:similar to s51413 percent identity: 27.8;) U67462 U67462 g1590845 Methanococcus jannaschii 2190 -11541095

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931528	20649	42805	669	222

Description

5000698551 putative mrna 3-end processing factor 3:hypothetical protein (gtcfc:10.9) (keggfc:14.2) (tigrfc:11.3) (db:gtc-methanococcus jannaschii) MJ0162 MJ0162 Methanococcus jannaschii 2190 -11541096 118819 mj0162 (de:hypothetical protein mj0162) (db:swissprot) Y162_METJA Q57626 METHANOCOCCUS JANNASCHII 2190 -11541096 174447 probable membrane protein ylr277c homolog (db:pir2.dat) (mp:for165537-166802) C64320 C64320 Methanococcus jannaschii 2190 -11541096 246597 mj0162 putative mrna 3-end processing factor 3 (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:similar to gp:1707412 percent identity: 35.48;) (le:7838) (re:9103) (di:direct) U67473 U67473 g1590919 Methanococcus jannaschii 2190 -11541096 6500737238 putative mrna 3-end processing factor 3:hypothetical protein (gtcfc:10.9) (keggfc:14.2) (tigrfc:11.3) (db:gtc-methanococcus jannaschii) MJ0162 MJ0162 Methanococcus jannaschii 2190 -11541096

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931540	20650	42806	705	234

Description

5000698183 fibrillarin:fib:fibrillarin-like pre-rrna processing protein (gtcfc:10.9) (keggfc:14.2) (tigrfc:11.3) (db:gtc-methanococcus jannaschii) MJ0697 MJ0697 Methanococcus jannaschii 2190 -11541097 5500685228 flpa:mj0697 (de:fibrillarin-like pre-rrna processing protein) (db:swissprot) FLPA_METJA Q58108 METHANOCOCCUS JANNASCHII 2190 -11541097 173108 fibrillarin-like pre-rrna processing protein homolog (cl:human fibrillarin) (db:pir2.dat) (mp:for622549-623241) A64387 A64387 Methanococcus jannaschii 2190 -11541097 247131 mj0697 fibrillarin fib (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to gp:578561 percent identity: 46.08;) (le:7131) (re:7823) (di:direct) U67516 U67516 g1591412 Methanococcus jannaschii 2190 -11541097 6500737239 fibrillarin:fib:fibrillarin-like pre-rrna processing protein (gtcfc:10.9) (keggfc:14.2) (tigrfc:11.3) (db:gtc-methanococcus jannaschii) MJ0697 MJ0697 Methanococcus jannaschii 2190 -11541097

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931566	20651	42807	261	86

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931583	20652	42808	423	140

Description

GTC ORF with score 190 to: (sr:schizosaccharomyces pombe dna) (db:genpept-pln2) (de:yeast paa1+ gene for protein phosphatase 2a 65kd regulatiry subunit(a subunit), complete cds.) (le:275:613:715:929:1894) (re:289:660:820:1832:1994) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931584	20653	42809	198	65

Description

GTC ORF with score 98 to: (sr:schizosaccharomyces pombe dna) (db:genpept-pln2) (de:yeast paa1+ gene for protein phosphatase 2a 65kd regulatiry subunit(a subunit), complete cds.) (le:275:613:715:929:1894) (re:289:660:820:1832:1994) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931585	20654	42810	393	130

Description

5000699137 putative mrna 3-end processing factor 2:hypothetical protein (gtcfc:10.9) (keggfc:14.2) (tigrfc:11.3) (db:gtc-methanococcus jannaschii) MJ1236 MJ1236 Methanococcus jannaschii 2190 -11541098 118869 mj1236 (de:hypothetical protein mj1236) (db:swissprot) YC36_METJA Q58633 METHANOCOCCUS JANNASCHII 2190 -11541098 173283 hypothetical protein 19328.4 homolog (db:pir2.dat) (mp:rev1182153-1180249) C64454 C64454 Methanococcus jannaschii 2190 -11541098 247669 mj1236 putative mrna 3-end processing factor 2 (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:similar to gp:1707412 percent identity: 32.61;) (le:4956) (re:6860) (di:complement) U67564 U67564 g1591868 Methanococcus jannaschii 2190 -11541098 6500737240 putative mrna 3-end processing factor 2:hypothetical protein (gtcfc:10.9) (keggfc:14.2) (tigrfc:11.3) (db:gtc-methanococcus jannaschii) MJ1236 MJ1236 Methanococcus jannaschii 2190 -11541098

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931586	20655	42811	339	112

Description

GTC ORF with score 142 to: (de:(yal016w) (pn:protein phosphatase pp2a regulatory subunit a:pr65:ser) (gn:fun32:tpd3) (gtcfc:10.9:12.13:12.8) (ec:) (2aaa_yeast) (keggfc:11.2) (sgdfc:3.1.0:3.2.0:3.8.0:3.9.0:4.12.0:16.0.0) (db:gtc-saccharomyces cerevisiae))

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931587	20656	42812	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931591	20657	42813	201	66

Description

5000698566 lipoprotein b:lppb:hypothetical protein (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ0201 MJ0201 Methanococcus jannaschii 2190 -11541099 118834 mj0201 (de:hypothetical protein mj0201) (db:swissprot) Y201_METJA Q57654 METHANOCOCCUS JANNASCHII 2190 -11541099 173388 hypothetical protein mj0201 (cl:conserved hypothetical protein mj0201) (db:pir2.dat) (mp:rev193486-193004) B64325 B64325 Methanococcus jannaschii 2190 -11541099 246636 mj0201 lipoprotein b lppb (db:genpept-bct1) (de:methanococcus jannaschii section 18 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44832 pid:1005617) (le:1812) (re:2294) (di:complement) U67476 U67476 g1498976 Methanococcus jannaschii 2190 -11541099 6500737241 lipoprotein b:lppb:hypothetical protein (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ0201 MJ0201 Methanococcus jannaschii 2190 -11541099

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931594	20658	42814	621	206

Description

GTC ORF with score 431 to: (sr:schizosaccharomyces pombe dna) (db:genpept-pln2) (de:yeast paa1+ gene for protein phosphatase 2a 65kd regulatiry subunit(a subunit), complete cds.) (le:275:613:715:929:1894) (re:289:660:820:1832:1994) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931600	20659	42815	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931601	20660	42816	477	158

Description

5000698309 lipoprotein b:lppb:hypothetical protein (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ0374 MJ0374 Methanococcus jannaschii 2190 -11541100 118837 mj0374 (de:hypothetical protein mj0374) (db:swissprot) Y374_METJA Q57819 METHANOCOCCUS JANNASCHII 2190 -11541100 173495 hypothetical protein mj0374 (cl:hypothetical protein mj0374) (db:pir2.dat) (mp:rev339873-338881) F64346 F64346 Methanococcus jannaschii 2190 -11541100 246808 mj0374 lipoprotein b lppb (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44832 pid:1005617) (le:4480) (re:5472) (di:complement) U67490 U67490 g1591081 Methanococcus jannaschii 2190 -11541100 6500737242 lipoprotein b:lppb:hypothetical protein (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ0374 MJ0374 Methanococcus jannaschii 2190 -11541100

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931612	20661	42817	270	89

Description

GTC ORF with score 120 to: (fn:binds to centromere k-type repeat dna and) (sr:fission yeast) (db:genpept-pln1) (de:schizosaccharomyces pombe cenp-b homolog (cbh) mrna, complete cds.) (nt:cenp-b homolog) (le:90) (re:1634) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931616	20662	42818	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931630	20663	42819	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931632	20664	42820	264	87

Description

5000698310 dolichyl-phosphate mannose synthase:hypothetical protein (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ0544 MJ0544 Methanococcus jannaschii 2190 -11541101 4000708333 mj0544 (de:hypothetical protein mj0544) (db:swissprot) Y544_METJA Q57964 METHANOCOCCUS JANNASCHII 2190 -11541101 173081 dolichyl-phosphate mannose synthase (db:pir2.dat) (mp:rev482606-481917) H64367 H64367 Methanococcus jannaschii 2190 -11541101 246978 mj0544 dolichyl-phosphate mannose synthase (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:similar to gp:1150648 percent identity: 34.09;) (le:92) (re:781) (di:complement) U67504 U67504 g1592295 Methanococcus jannaschii 2190 -11541101 6500737243 dolichyl-phosphate mannose synthase:hypothetical protein (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ0544 MJ0544 Methanococcus jannaschii 2190 -11541101

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931633	20665	42821	1500	499

Description

5000698313 glycosyl transferase:putative:glycosyl transferase (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ1057 MJ1057 Methanococcus jannaschii 2190 -11541102 7500895888 mj1057 (ec:2.-.-.-) (de:putative glycosyl transferase mj1057,) (db:swissprot) YA57_METJA Q58457 METHANOCOCCUS JANNASCHII 2190 -11541102 173152 glycosyl transferase (ec:2.4.-.-) (db:pir2.dat) (mp:for996513-997385) H64431 H64431 Methanococcus jannaschii 2190 -11541102 6500737244 glycosyl transferase:putative:glycosyl transferase (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ1057 MJ1057 Methanococcus jannaschii 2190 -11541102 247490 mju67549 (le:996513) (re:997385) (di:direct) (de:or:methanococcus jannaschii pn:glycosyl transferase gn:mj1057 le:184 re:1056 di:direct nt:similar to u14554_5 percent identity: 31.9;) U67549 U67549 g1592318 Methanococcus jannaschii 2190 -11541102

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931650	20666	42822	441	146

Description

5000698314 glycerol-3-phosphate cytidyltransferase:taqd:m (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ1179 MJ1179 Methanococcus jannaschii 2190 -11541103 173923 hypothetical protein mj1179 (db:pir2.dat) (mp:for1118841-1119290) B64447 B64447 Methanococcus jannaschii 2190 -11541103 247612 mj1179 glycerol-3-phosphate cytidyltransferase taqd (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to pid:1125683 pid:1125687 percent) (le:7404) (re:7853) (di:direct) U67559 U67559 g1591806 Methanococcus jannaschii 2190 -11541103 6500737245 glycerol-3-phosphate cytidyltransferase:taqd:m (gtcfc:11.1) (keggfc:14.2) (tigrfc:3.1) (db:gtc-methanococcus jannaschii) MJ1179 MJ1179 Methanococcus jannaschii 2190 -11541103

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931651	20667	42823	246	81

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931659	20668	42824	867	288

Description

5000698315 udp-n-acetyl-d-mannosaminuronic acid dehydrogenase:hypothetical protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ0428 MJ0428 Methanococcus jannaschii 2190 -11541104 4000708285 mj0428 (ec:1.1.1.-) (de:hypothetical protein mj0428,) (db:swissprot) Y428_METJA Q57871 METHANOCOCCUS JANNASCHII 2190 -11541104 174606 udp-n-acetyl-d-mannosaminuronic acid dehydrogenase homolog (cl:udp-n-acetyl-d-mannosaminuronic acid dehydrogenase) (db:pir2.dat) (mp:rev384986-383703) D64353 D64353 Methanococcus jannaschii 2190 -11541104 246862 mj0428 udp-n-acetyl-d-mannosaminuronic acid (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:similar to sp:p27829 pid:148190 gb:u00096) (le:7164) (re:8447) (di:complement) U67494 U67494 g1591131 Methanococcus jannaschii 2190 -11541104 6500737246 udp-n-acetyl-d-mannosaminuronic acid dehydrogenase:hypothetical protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ0428 MJ0428 Methanococcus jannaschii 2190 -11541104

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931662	20669	42825	681	226

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931705	20670	42826	1023	340

Description

GTC ORF with score 272 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid k07c11.) (nt:coded for by c. elegans cdna cm12g2; coded for by) (le:11088:11496:12194) (re:11399:11750:12401) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931717	20671	42827	216	71

Description

5000698316 capsular polysaccharide biosynthesis protein:putative:cap8b:capsular polysaccharide biosynthesis protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ0924 MJ0924 Methanococcus jannaschii 2190 -11541105 5500686447 mj0924 (de:hypothetical atp-binding protein mj0924) (db:swissprot) Y924_METJA Q58334 METHANOCOCCUS JANNASCHII 2190 -11541105 172991 capsular polysaccharide biosynthesis protein homolog (db:pir2.dat) (mp:rev855116-854325) D64415 D64415 Methanococcus jannaschii 2190 -11541105 247358 mj0924 capsular polysaccharide biosynthesis protein (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:similar to gp:1657641 percent identity: 30.82;) (le:1076) (re:1867) (di:complement) U67536 U67536 g1591597 Methanococcus jannaschii 2190 -11541105 6500737247 capsular polysaccharide biosynthesis protein:putative:cap8b:capsular polysaccharide biosynthesis protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ0924 MJ0924 Methanococcus jannaschii 2190 -11541105

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931726	20672	42828	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931730	20673	42829	594	197

Description

5000698317 capsular polysaccharide biosynthesis protein i (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1055 MJ1055 Methanococcus jannaschii 2190 -11541106 5500686461 mj1055 (de:hypothetical protein mj1055) (db:swissprot) YA55_METJA Q58455 METHANOCOCCUS JANNASCHII 2190 -11541106 172992 capsular polysaccharide biosynthesis protein i homolog (cl:escherichia coli udpglucose 4-epimerase:udpglucose 4-epimerase homology) (db:pir2.dat) (mp:for993651-994631) F64431 F64431 Methanococcus jannaschii 2190 -11541106 247488 mj1055 capsular polysaccharide biosynthesis protein i (db:genpept-bct1) (de:methanococcus jannaschii section 90 of 150 of the complete genome.) (nt:similar to gb:u10927 sp:p39858 pid:506705 percent) (le:7433) (re:8413) (di:direct) U67548 U67548 g1591707 Methanococcus jannaschii 2190 -11541106 6500737248 capsular polysaccharide biosynthesis protein i (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1055 MJ1055 Methanococcus jannaschii 2190 -11541106

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931732	20674	42830	654	217

Description

5000698318 capsular polysaccharide biosynthsis protein m (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1059 MJ1059 Methanococcus jannaschii 2190 -11541107 172993 capsular polysaccharide biosynthsis protein m homolog (db:pir2.dat) (mp:for999242-1000462) B64432 B64432 Methanococcus jannaschii 2190 -11541107 247492 mj1059 capsular polysaccharide biosynthsis protein m (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:similar to gb:u10927 sp:p39862 pid:506709 percent) (le:2913) (re:4133) (di:direct) U67549 U67549 g1591712 Methanococcus jannaschii 2190 -11541107 6500737249 capsular polysaccharide biosynthsis protein m (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1059 MJ1059 Methanococcus jannaschii 2190 -11541107

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931743	20675	42831	282	93

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931745	20676	42832	183	60

Description

5000698319 capsular polysaccharide biosynthesis protein d (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1061 MJ1061 Methanococcus jannaschii 2190 -11541108 172990 capsular polysaccharide biosynthesis protein d homolog (cl:probable capsular polysaccharide biosynthesis protein d) (db:pir2.dat) (mp:rev1003068-1002067) D64432 D64432 Methanococcus jannaschii 2190 -11541108 247494 mj1061 capsular polysaccharide biosynthesis protein d (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:similar to gb:u10927 sp:p39853 pid:506700 percent) (le:5738) (re:6739) (di:complement) U67549 U67549 g1591713 Methanococcus jannaschii 2190 -11541108 6500737250 capsular polysaccharide biosynthesis protein d (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1061 MJ1061 Methanococcus jannaschii 2190 -11541108

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931755	20677	42833	390	129

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931756	20678	42834	324	107

Description

5000698320 spore coat polysaccharide biosynthesis protein g:putative:spsg:hypothetical protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1062 MJ1062 Methanococcus jannaschii 2190 -11541109 4000708425 mj1062 (de:hypothetical protein mj1062) (db:swissprot) YA62_METJA Q58462 METHANOCOCCUS JANNASCHII 2190 -11541109 174551 spore coat polysaccharide biosynthesis protein g homolog (db:pir2.dat) (mp:rev1004535-1003081) E64432 E64432 Methanococcus jannaschii 2190 -11541109 247495 mj1062 spore coat polysaccharide biosynthesis protein (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:similar to gb:x73124 sp:p39627 pid:413993 percent) (le:6752) (re:8206) (di:complement) U67549 U67549 g1591714 Methanococcus jannaschii 2190 -11541109 6500737251 spore coat polysaccharide biosynthesis protein g:putative:spsg:hypothetical protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1062 MJ1062 Methanococcus jannaschii 2190 -11541109

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931759	20679	42835	321	106

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931771	20680	42836	246	81

Description

5000698321 spsf:spore coat polysaccharide biosynthesis protein f (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1063 MJ1063 Methanococcus jannaschii 2190 -11541110 174550 spore coat polysaccharide biosynthesis protein f homolog (db:pir2.dat) (mp:rev1005263-1004532) F64432 F64432 Methanococcus jannaschii 2190 -11541110 247496 mj1063 spore coat polysaccharide biosynthesis protein f (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:similar to gb:x73124 sp:p39626 pid:413992) (le:8203) (re:8934) (di:complement) U67549 U67549 g1591715 Methanococcus jannaschii 2190 -11541110 6500737252 spsf:spore coat polysaccharide biosynthesis protein f (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1063 MJ1063 Methanococcus jannaschii 2190 -11541110

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931772	20681	42837	399	132

Description

5000698322 spore coat polysaccharide biosynthesis protein e (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1065 MJ1065 Methanococcus jannaschii 2190 -11541111 7500895899 mj1065 (de:hypothetical protein mj1065) (db:swissprot) YA65_METJA Q58465 METHANOCOCCUS JANNASCHII 2190 -11541111 174549 spore coat polysaccharide biosynthesis protein e homolog (db:pir2.dat) (mp:rev1006919-1005906) H64432 H64432 Methanococcus jannaschii 2190 -11541111 7500895901 mj1065 spore coat polysaccharide biosynthesis protein (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:similar to gb:x73124 sp:p39625 pid:413991) (le:9577) (re:10590) (di:complement) U67549 U67549 g1591717 Methanococcus jannaschii 2190 -11541111 6500737253 spore coat polysaccharide biosynthesis protein e (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1065 MJ1065 Methanococcus jannaschii 2190 -11541111 247498 mju67549 (le:1005906) (re:1006919) (di:direct) (de:or:methanococcus jannaschii pn:spore coat polysaccharide biosynthesis protein gn:mj1065 le:9577 re:10590 di:complement nt:similar to p39625 percent identity: 37.8;) U67549 U67549 g1591717 Methanococcus jannaschii 2190 -11541111

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931793	20682	42838	822	273

Description

5000698323 spsc:spore coat polysaccharide biosynthesis protein c (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1066 MJ1066 Methanococcus jannaschii 2190 -11541112 7500895902 mj1066 (de:hypothetical protein mj1066) (db:swissprot) YA66_METJA Q58466 METHANOCOCCUS JANNASCHII 2190 -11541112 174548 spore coat polysaccharide biosynthesis protein c homolog (cl:erythromycin resistance protein) (db:pir2.dat) (mp:rev1008090-1006930) A64433 A64433 Methanococcus jannaschii 2190 -11541112 7500895904 mj1066 spore coat polysaccharide biosynthesis protein c (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:similar to gb:x73124 sp:p39623 pid:413989) (le:10601) (re:11761) (di:complement) U67549 U67549 g1591718 Methanococcus jannaschii 2190 -11541112 6500737254 spsc:spore coat polysaccharide biosynthesis protein c (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1066 MJ1066 Methanococcus jannaschii 2190 -11541112 247499 mju67549 (le:1006930) (re:1008090) (di:direct) (de:or:methanococcus jannaschii pn:spore coat polysaccharide biosynthesis protein gn:mj1066 le:10601 re:11761 di:complement nt:similar to p39623 percent identity: 55.0;) U67549 U67549 g1591718 Methanococcus jannaschii 2190 -11541112

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931794	20683	42839	1164	387

Description

5000698324 polysaccharide biosynthesis protein:capf isolog:putative o-antigen transporter (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1068 MJ1068 Methanococcus jannaschii 2190 -11541113 174448 probable o-antigen transporter homolog (db:pir2.dat) (mp:rev1009618-1008095) B64433 B64433 Methanococcus jannaschii 2190 -11541113 247500 mj1068 polysaccharide biosynthesis protein capf (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:similar to gb:u10927 sp:p39855 pid:506702 percent) (le:11766) (re:13289) (di:complement) U67549 U67549 g1591720 Methanococcus jannaschii 2190 -11541113 6500737255 polysaccharide biosynthesis protein:capf isolog:putative o-antigen transporter (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1068 MJ1068 Methanococcus jannaschii 2190 -11541113

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931802	20684	42840	945	314

Description

5000698460 phosphomannomutase:pmmb:urease operon protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1100 MJ1100 Methanococcus jannaschii 2190 -11541114 7500896287 mj1100 (de:hypothetical protein mj1100) (db:swissprot) YB00_METJA Q58500 METHANOCOCCUS JANNASCHII 2190 -11541114 174610 probable urease (cl:methanobacterium thermoautotrophicum phosphomannomutase) (db:pir2.dat) (mp:for1040531-1041877) C64437 C64437 Methanococcus jannaschii 2190 -11541114 7500896289 mj1100 phosphomannomutase pmmb (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:similar to gb:m60873 sp:p26276 gb:s43866 pid:150994) (le:128) (re:1474) (di:direct) U67553 U67553 g1591745 Methanococcus jannaschii 2190 -11541114 6500737256 phosphomannomutase:pmmb:urease operon protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1100 MJ1100 Methanococcus jannaschii 2190 -11541114 247533 mju67553 (le:1040531) (re:1041877) (di:direct) (de:or:methanococcus jannaschii pn:urease operon protein gn:mj1100 le:128 re:1474 di:direct nt:similar to u00020_23 percent identity: 33.9;) U67553 U67553 g1591745 Methanococcus jannaschii 2190 -11541114

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931803	20685	42841	273	90

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931804	20686	42842	1554	517

Description

5000699190 phosphoheptose isomerase:gmha:hypothetical protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1335 MJ1335 Methanococcus jannaschii 2190 -11541115 173267 phosphoheptose isomerase homolog:hypothetical protein homolog mj1335 (cl:phosphoheptose isomerase) (db:pir2.dat) (mp:for1284342-1284773) F64466 F64466 Methanococcus jannaschii 2190 -11541115 247768 mj1335 phosphoheptose isomerase gmha (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:similar to percent identity: 55.32; identified by) (le:9007) (re:9438) (di:direct) U67573 U67573 g1591976 Methanococcus jannaschii 2190 -11541115 6500737257 phosphoheptose isomerase:gmha:hypothetical protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1335 MJ1335 Methanococcus jannaschii 2190 -11541115

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931814	20687	42843	423	140

Description

5000699197 exsb:hypothetical protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1347 MJ1347 Methanococcus jannaschii 2190 -11541116 173268 hypothetical protein homolog mj1347 (cl:conserved hypothetical protein hi1191) (db:pir2.dat) (mp:for1294379-1295086) B64468 B64468 Methanococcus jannaschii 2190 -11541116 247780 mj1347 exsb (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:similar to gp:1001327 percent identity: 37.21;) (le:8998) (re:9705) (di:direct) U67574 U67574 g1591989 Methanococcus jannaschii 2190 -11541116 6500737258 exsb:hypothetical protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1347 MJ1347 Methanococcus jannaschii 2190 -11541116

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931818	20688	42844	447	148

Description

5000698327 lps biosynthesis protein:putative:lps biosynthesis related rfbu-protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1607 MJ1607 Methanococcus jannaschii 2190 -11541117 174310 lps biosynthesis related rfbu-protein homolog (cl:lps biosynthesis related protein) (db:pir2.dat) (mp:for1581714-1582886) F64500 F64500 Methanococcus jannaschii 2190 -11541117 248040 mj1607 lps biosynthesis protein:putative (db:genpept-bct1) (de:methanococcus jannaschii section 143 of 150 of the complete genome.) (nt:similar to pid:1145194 percent identity: 33.33;) (le:109) (re:1281) (di:direct) U67601 U67601 g1500505 Methanococcus jannaschii 2190 -11541117 6500737259 lps biosynthesis protein:putative:lps biosynthesis related rfbu-protein (gtcfc:11.2) (keggfc:14.2) (tigrfc:3.3) (db:gtc-methanococcus jannaschii) MJ1607 MJ1607 Methanococcus jannaschii 2190 -11541117

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931819	20689	42845	2883	960

Description

6500737260 flab1:mj0891 flagellin b1:flagellin b1 precursor (gtcfc:11.3) (keggfc:14.2) (tigrfc:3.4) (db:gtc-methanococcus jannaschii) MJ0891 MJ0891 Methanococcus jannaschii 2190 -11541118 118248 flab1:mj0891 (de:flagellin b1 precursor) (db:swissprot) FLA1_METJA Q58301 METHANOCOCCUS JANNASCHII 2190 -11541118 131126 flab1 flagellin b1 precursor (cl:archaeal flagellin) (db:pir1.dat) (mp:for821708-822361) C64411 C64411 Methanococcus jannaschii 2190 -11541118 247325 mj0891 flagellin b1 flab1 (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gb:m72148 sp:p27803 pid:150062 percent) (le:2182) (re:2835) (di:direct) U67533 U67533 g1591569 Methanococcus jannaschii 2190 -11541118 5000698328 (de:(mj0891) (pn:flagellin b1 precursor:flagellin b1) (gn:flab1) (gtcfc:11.3) (ec:) (fla1_metja) (keggfc:11.2) (tigrfc:3.4) (db:gtc-methanococcus jannaschii)) MJ0891 MJ0891 Methanococcus jannaschii 2190 10060353

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931825	20690	42846	894	297

Description

6500737261 flab2:mj0892 flagellin b2:flagellin b2 precursor (gtcfc:11.3) (keggfc:14.2) (tigrfc:3.4) (db:gtc-methanococcus jannaschii) MJ0892 MJ0892 Methanococcus jannaschii 2190 -11541119 118249 flab2:mj0892 (de:flagellin b2 precursor) (db:swissprot) FLA2_METJA Q58302 METHANOCOCCUS JANNASCHII 2190 -11541119 131127 flab2 flagellin b2 precursor (cl:archaeal flagellin) (db:pir1.dat) (mp:for822444-823097) D64411 D64411 Methanococcus jannaschii 2190 -11541119 247326 mj0892 flagellin b2 flab2 (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gb:m72148 sp:p27804 pid:150063 percent) (le:2918) (re:3571) (di:direct) U67533 U67533 g1591570 Methanococcus jannaschii 2190 -11541119 5000698329 (de:(mj0892) (pn:flagellin b2 precursor:flagellin b2) (gn:flab2) (gtcfc:11.3) (ec:) (fla2_metja) (keggfc:11.2) (tigrfc:3.4) (db:gtc-methanococcus jannaschii)) MJ0892 MJ0892 Methanococcus jannaschii 2190 10060354

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931826	20691	42847	933	310

Description

6500737262 flab3:mj0893 flagellin b3:flagellin b3 precursor (gtcfc:11.3) (keggfc:14.2) (tigrfc:3.4) (db:gtc-methanococcus jannaschii) MJ0893 MJ0893 Methanococcus jannaschii 2190 -11541120 131130 flab3 flagellin b3 precursor (cl:archaeal flagellin) (db:pir1.dat) (mp:for823179-823850) E64411 E64411 Methanococcus jannaschii 2190 -11541120 247327 mj0893 flagellin b3 flab3 (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gb:m72148 sp:p27805 pid:150064 percent) (le:3653) (re:4324) (di:direct) U67533 U67533 g1591571 Methanococcus jannaschii 2190 -11541120 5000698330 (de:(mj0893) (pn:flagellin b3 precursor:flagellin b3) (gn:flab3) (gtcfc:11.3) (ec:) (fla3_metja) (keggfc:11.2) (tigrfc:3.4) (db:gtc-methanococcus jannaschii)) MJ0893 MJ0893 Methanococcus jannaschii 2190 10068038

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931840	20692	42848	537	178

Description

5000698368 s-layer structural protein:m (gtcfc:11.3) (keggfc:14.2) (tigrfc:3.4) (db:gtc-methanococcus jannaschii) MJ0954 MJ0954 Methanococcus jannaschii 2190 -11541121 173811 hypothetical protein mj0954 (db:pir2.dat) (mp:rev886123-884801) B64419 B64419 Methanococcus jannaschii 2190 -11541121 247388 mj0954 s-layer structural protein (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to gb:m59200 pid:150044 percent identity:) (le:1007) (re:2329) (di:complement) U67539 U67539 g1591621 Methanococcus jannaschii 2190 -11541121 6500737263 s-layer structural protein:m (gtcfc:11.3) (keggfc:14.2) (tigrfc:3.4) (db:gtc-methanococcus jannaschii) MJ0954 MJ0954 Methanococcus jannaschii 2190 -11541121

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931842	20693	42849	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931848	20694	42850	216	71

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931873	20695	42851	216	71

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931883	20696	42852	711	236

Description

5000698881 n-acetylmuramoyl-l-alanine amidase:m (gtcfc:11.4) (keggfc:14.2) (tigrfc:3.2) (db:gtc-methanococcus jannaschii) MJ0755 MJ0755 Methanococcus jannaschii 2190 -11541122 5500686373 mj0755 (de:hypothetical protein mj0755 precursor) (db:swissprot) Y755_METJA Q58165 METHANOCOCCUS JANNASCHII 2190 -11541122 173691 hypothetical protein mj0755 (db:pir2.dat) (mp:rev680646-679618) C64394 C64394 Methanococcus jannaschii 2190 -11541122 247189 mj0755 n-acetylmuramoyl-l-alanine amidase (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:similar to gb:d10388 sp:q02114 gb:m81324 pid:142806) (le:3700) (re:4728) (di:complement) U67521 U67521 g1499574 Methanococcus jannaschii 2190 -11541122 6500737264 n-acetylmuramoyl-l-alanine amidase:m (gtcfc:11.4) (keggfc:14.2) (tigrfc:3.2) (db:gtc-methanococcus jannaschii) MJ0755 MJ0755 Methanococcus jannaschii 2190 -11541122

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931886	20697	42853	1704	567

Description

5000698342 signal recognition particle:subunit srp54:putative signal recognition 54 kd protein:srp54 (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0101 MJ0101 Methanococcus jannaschii 2190 -11541123 121457 mj0101 (de:probable signal recognition 54 kd protein (srp54)) (db:swissprot) SR54_METJA Q57565 METHANOCOCCUS JANNASCHII 2190 -11541123 174542 signal recognition particle protein (cl:signal recognition particle 54k protein) (db:pir2.dat) (mp:rev96405-95050) E64312 E64312 Methanococcus jannaschii 2190 -11541123 246535 mj0101 signal recognition particle:subunit srp54 (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:similar to gb:142023 sp:p44518 pid:1003116) (le:5546) (re:6901) (di:complement) U67467 U67467 g1590878 Methanococcus jannaschii 2190 -11541123 6500737265 signal recognition particle:subunit srp54:putative signal recognition 54 kd protein:srp54 (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0101 MJ0101 Methanococcus jannaschii 2190 -11541123

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931887	20698	42854	1749	582

Description

5000698343 protein translocase:subunit secd:secd:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0111 MJ0111 Methanococcus jannaschii 2190 -11541124 118789 mj0111 (de:hypothetical protein mj0111) (db:swissprot) Y111_METJA Q57575 METHANOCOCCUS JANNASCHII 2190 -11541124 174456 protein-export membrane protein (cl:methanococcus jannaschii protein-export membrane protein) (db:pir2.dat) (mp:for106958-108148) G64313 G64313 Methanococcus jannaschii 2190 -11541124 246545 mj0111 protein translocase:subunit secd secd (db:genpept-bct1) (de:methanococcus jannaschii section 10 of 150 of the complete genome.) (nt:similar to pid:758288 sp:q53955 percent identity:) (le:5218) (re:6408) (di:direct) U67468 U67468 g1590887 Methanococcus jannaschii 2190 -11541124 6500737266 protein translocase:subunit secd:secd:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0111 MJ0111 Methanococcus jannaschii 2190 -11541124

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931898	20699	42855	834	277

Description

5000698344 signal recognition particle:receptor:probable signal recognition particle protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0291 MJ0291 Methanococcus jannaschii 2190 -11541125 500685312 mj0291 (de:probable signal recognition particle protein mj0291) (db:swissprot) Y291_METJA Q57739 METHANOCOCCUS JANNASCHII 2190 -11541125 174541 signal recognition particle protein (cl:docking protein) (db:pir2.dat) (mp:for273891-275120) D64336 D64336 Methanococcus jannaschii 2190 -11541125 246726 mj0291 signal recognition particle:receptor (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:similar to sp:p27414 pid:1333819 percent identity:) (le:2727) (re:3956) (di:direct) U67484 U67484 g1591013 Methanococcus jannaschii 2190 -11541125 6500737267 signal recognition particle:receptor:probable signal recognition particle protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0291 MJ0291 Methanococcus jannaschii 2190 -11541125

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931901	20700	42856	303	100

Description

5000699419 protein translocase:subunit sec61 gamma:sece:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0371 MJ0371 Methanococcus jannaschii 2190 -11541126 4000708248 mj0371 (de:hypothetical protein mj0371) (db:swissprot) Y371_METJA Q57817 METHANOCOCCUS JANNASCHII 2190 -11541126 173494 hypothetical protein mj0371 (cl:yeast sss1 protein) (db:pir2.dat) (mp:for337418-337642) C64346 C64346 Methanococcus jannaschii 2190 -11541126 246805 mj0371 protein translocase:subunit sec61 gamma sece (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to pid:1217622 percent identity: 31.48;) (le:3017) (re:3241) (di:direct) U67490 U67490 g1591078 Methanococcus jannaschii 2190 -11541126 6500737268 protein translocase:subunit sec61 gamma:sece:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0371 MJ0371 Methanococcus jannaschii 2190 -11541126

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931910	20701	42857	1350	449

Description

6500737269 secy:mj0478 protein translocase:subunit sec61 alpha:preprotein translocase subunit (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0478 MJ0478 Methanococcus jannaschii 2190 -11541127 174443 preprotein translocase secy (cl:yeast ssh1 protein) (db:pir2.dat) (mp:for420364-421686) F64359 F64359 Methanococcus jannaschii 2190 -11541127 121376 secy:mj0478 (de:preprotein translocase secy subunit) (db:swissprot) SECY_METJA Q60175 METHANOCOCCUS JANNASCHII 2190 -11541127 246912 mju67498 (le:420364) (re:421686) (di:direct) (de:or:methanococcus jannaschii pn:preprotein translocase secy gn:mj0478 le:176 re:1498 di:direct nt:similar to p28541 percent identity: 70.8;) U67498 U67498 g1591181 Methanococcus jannaschii 2190 -11541127 5000698345 (de:(mj0478) (pn:preprotein translocase subunit:preprotein translocase secy) (gn:secy) (gtcfc:12.10) (ec:) (secy_metja) (keggfc:11.2) (tigrfc:4.5) (db:gtc-methanococcus jannaschii)) MJ0478 MJ0478 Methanococcus jannaschii 2190 10064706

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931911	20702	42858	483	160

Description

5000698435 type ii secretion system protein:klba protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0781 MJ0781 Methanococcus jannaschii 2190 -11541128 5500686394 mj0781 (de:hypothetical protein mj0781) (db:swissprot) Y781_METJA Q58191 METHANOCOCCUS JANNASCHII 2190 -11541128 174304 klba homolog (db:pir2.dat) (mp:rev703727-701562) E64397 E64397 Methanococcus jannaschii 2190 -11541128 247215 mj0781 type ii secretion system protein (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to gp:1707774 percent identity: 37.14;) (le:14875) (re:17040) (di:complement) U67522 U67522 g1591480 Methanococcus jannaschii 2190 -11541128 6500737270 type ii secretion system protein:klba protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0781 MJ0781 Methanococcus jannaschii 2190 -11541128

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931912	20703	42859	468	155

Description

5000698436 type ii secretion system protein:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0900 MJ0900 Methanococcus jannaschii 2190 -11541129 4000708093 mj0900 (de:hypothetical protein mj0900) (db:swissprot) Y900_METJA Q58310 METHANOCOCCUS JANNASCHII 2190 -11541129 173778 hypothetical protein mj0900 (cl:conserved hypothetical protein mj0900) (db:pir2.dat) (mp:for827658-829313) D64412 D64412 Methanococcus jannaschii 2190 -11541129 247334 mj0900 type ii secretion system protein (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to percent identity: 30.89; identified by) (le:8132) (re:9787) (di:direct) U67533 U67533 g1591575 Methanococcus jannaschii 2190 -11541129 6500737271 type ii secretion system protein:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ0900 MJ0900 Methanococcus jannaschii 2190 -11541129

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931926	20704	42860	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931928	20705	42861	486	161

Description

5000699439 signal recognition particle:subunit srp19:signal recognition particle 19 kd protein homolog:srp19 homolog (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ1034 MJ1034 Methanococcus jannaschii 2190 -11541130 121454 mj1034 (de:signal recognition particle 19 kd protein homolog (srp19 homolog)) (db:swissprot) SR19_METJA Q58440 METHANOCOCCUS JANNASCHII 2190 -11541130 173854 hypothetical protein mj1034 (cl:conserved hypothetical protein mj1034) (db:pir2.dat) (mp:for966052-966315) A64429 A64429 Methanococcus jannaschii 2190 -11541130 247467 mj1034 signal recognition particle:subunit srp19 (db:genpept-bct1) (de:methanococcus jannaschii section 88 of 150 of the complete genome.) (nt:similar to gb:x12791 sp:p09132 pid:36113 percent) (le:2154) (re:2417) (di:direct) U67546 U67546 g1499877 Methanococcus jannaschii 2190 -11541130 6500737272 signal recognition particle:subunit srp19:signal recognition particle 19 kd protein homolog:srp19 homolog (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ1034 MJ1034 Methanococcus jannaschii 2190 -11541130

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931937	20706	42862	405	134

Description

5000698346 protein translocase:subunit secf:secf:protein-export membrane protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ1253 MJ1253 Methanococcus jannaschii 2190 -11541131 174455 protein-export membrane protein (cl:methanobacterium thermoautotrophicum protein-export membrane protein secf) (db:pir2.dat) (mp:rev1195831-1194983) D64456 D64456 Methanococcus jannaschii 2190 -11541131 247686 mj1253 protein translocase:subunit secf secf (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:similar to sp:p19674 gb:x56175 pid:581231 gb:u00096) (le:9068) (re:9916) (di:complement) U67565 U67565 g1591886 Methanococcus jannaschii 2190 -11541131 6500737273 protein translocase:subunit secf:secf:protein-export membrane protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ1253 MJ1253 Methanococcus jannaschii 2190 -11541131

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931980	20707	42863	1128	375

Description

5000699446 type ii secretion system protein:putative:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ1287 MJ1287 Methanococcus jannaschii 2190 -11541132 4000708094 mj1287 (de:hypothetical protein mj1287) (db:swissprot) YC87_METJA Q58683 METHANOCOCCUS JANNASCHII 2190 -11541132 173978 hypothetical protein mj1287 (db:pir2.dat) (mp:rev1235130-1234318) F64460 F64460 Methanococcus jannaschii 2190 -11541132 247720 mj1287 type ii secretion system protein:putative (db:genpept-bct1) (de:methanococcus jannaschii section 111 of 150 of the complete genome.) (nt:similar to gp:1707774 percent identity: 37.88;) (le:6171) (re:6983) (di:complement) U67569 U67569 g1591924 Methanococcus jannaschii 2190 -11541132 6500737274 type ii secretion system protein:putative:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ1287 MJ1287 Methanococcus jannaschii 2190 -11541132

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931982	20708	42864	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931987	20709	42865	726	241

Description

GTC ORF with score 152 to: (sr:saccharomyces cerevisiae (strain fl100) dna) (db:genpept-pln1) (de:yeast rna i and iii supressor (srp40) gene, complete cds.) (nt:selected as a weak suppressor of a mutant of the) (le:929) (re:2149) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931991	20710	42866	1548	515

Description

5000699447 type ii secretion system protein:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ1288 MJ1288 Methanococcus jannaschii 2190 -11541133 173979 hypothetical protein mj1288 (db:pir2.dat) (mp:rev1235912-1235154) G64460 G64460 Methanococcus jannaschii 2190 -11541133 4000708095 mj1288 (de:hypothetical protein mj1288) (db:swissprot) YC88_METJA Q58684 METHANOCOCCUS JANNASCHII 2190 -11541133 6500737275 type ii secretion system protein:hypothetical protein (gtcfc:12.10) (keggfc:14.2) (tigrfc:4.6) (db:gtc-methanococcus jannaschii) MJ1288 MJ1288 Methanococcus jannaschii 2190 -11541133 247721 mju67569 (le:1235154) (re:1235912) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1288 gn:mj1288 le:7007 re:7765 di:complement nt:identified by genemark; putative) U67569 U67569 g1591925 Methanococcus jannaschii 2190 -11541133

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931995	20711	42867	279	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501931999	20712	42868	1203	400

Description

5000698331 ammonium transporter:amtb:putative ammonium transporter (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ0058 MJ0058 Methanococcus jannaschii 2190 -11541134 117458 mj0058 (de:putative ammonium transporter mj0058) (db:swissprot) Y058_METJA Q60366 METHANOCOCCUS JANNASCHII 2190 -11541134 172956 ammonium transporter homolog (db:pir2.dat) (mp:rev58763-57588) B64307 B64307 Methanococcus jannaschii 2190 -11541134 246492 mj0058 ammonium transporter amtb (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to sp:p37905 pid:1103924 gb:u00096) (le:8876) (re:10051) (di:complement) U67463 U67463 g1590851 Methanococcus jannaschii 2190 -11541134 6500737276 ammonium transporter:amtb:putative ammonium transporter (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ0058 MJ0058 Methanococcus jannaschii 2190 -11541134

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932000	20713	42869	567	188

Description

5000698333 amino acid transporter:hypothetical protein (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ0609 MJ0609 Methanococcus jannaschii 2190 -11541135 4000708370 mj0609 (de:hypothetical protein mj0609) (db:swissprot) Y609_METJA Q58026 METHANOCOCCUS JANNASCHII 2190 -11541135 172954 amino acid transporter (cl:probable membrane protein ybat) (db:pir2.dat) (mp:rev539080-537773) A64376 A64376 Methanococcus jannaschii 2190 -11541135 247043 mj0609 amino acid transporter (db:genpept-bct1) (de:methanococcus jannaschii section 51 of 150 of the complete genome.) (nt:similar to gb:x77502 gb:x92657 pid:1890309) (le:1915) (re:3222) (di:complement) U67509 U67509 g1591319 Methanococcus jannaschii 2190 -11541135 6500737277 amino acid transporter:hypothetical protein (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ0609 MJ0609 Methanococcus jannaschii 2190 -11541135

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932001	20714	42870	435	144

Description

GTC ORF with score 141 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid r144.) (nt:weak similarity to lupus la proteins) (le:9477:9611:9679) (re:9514:9633:9811) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932007	20715	42871	258	85

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932023	20716	42872	2556	851

Description

5000698334 glutamine transport atp-binding protein q (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ0796 MJ0796 Methanococcus jannaschii 2190 -11541136 5500686404 mj0796 (de:hypothetical abc transporter atp-binding protein mj0796) (db:swissprot) Y796_METJA Q58206 METHANOCOCCUS JANNASCHII 2190 -11541136 173146 glutamine transport atp-binding protein q homolog (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:for719541-720248) D64399 D64399 Methanococcus jannaschii 2190 -11541136 247230 mj0796 abc transporter:atp-binding protein (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:similar to sp:p10346 pid:581098 gb:u00096) (le:3748) (re:4455) (di:direct) U67524 U67524 g1591493 Methanococcus jannaschii 2190 -11541136 6500737278 glutamine transport atp-binding protein q (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ0796 MJ0796 Methanococcus jannaschii 2190 -11541136

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932044	20717	42873	1122	373

Description

5000698335 asob protein:cationic amino acid transporter mcat-2 (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1196 MJ1196 Methanococcus jannaschii 2190 -11541137 173001 cationic amino acid transporter mcat-2 homolog (cl:probable cationic amino acid transporter mcat-2) (db:pir2.dat) (mp:rev1140149-1139049) C64449 C64449 Methanococcus jannaschii 2190 -11541137 247629 mj1196 asob protein (db:genpept-bct1) (de:methanococcus jannaschii section 103 of 150 of the complete genome.) (nt:similar to pid:984560 percent identity: 23.53;) (le:1794) (re:2894) (di:complement) U67561 U67561 g1591825 Methanococcus jannaschii 2190 -11541137 6500737279 asob protein:cationic amino acid transporter mcat-2 (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1196 MJ1196 Methanococcus jannaschii 2190 -11541137

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932048	20718	42874	462	153

Description

5000698336 high-affinity branched-chain amino acid transport protein:brac:branched-chain amino acid transport protein livj (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1266 MJ1266 Methanococcus jannaschii 2190 -11541138 172988 branched-chain amino acid transport protein livj homolog (db:pir2.dat) (mp:for1210536-1211789) A64458 A64458 Methanococcus jannaschii 2190 -11541138 247699 mj1266 high-affinity branched-chain amino acid (db:genpept-bct1) (de:methanococcus jannaschii section 109 of 150 of the complete genome.) (nt:similar to gb:d90223 sp:p21175 gb:m31071 pid:151110) (le:4961) (re:6214) (di:direct) U67567 U67567 g1591901 Methanococcus jannaschii 2190 -11541138 6500737280 high-affinity branched-chain amino acid transport protein:brac:branched-chain amino acid transport protein livj (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1266 MJ1266 Methanococcus jannaschii 2190 -11541138

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932060	20719	42875	771	257

Description

5000698337 braf:high-affinity branched-chain amino acid transport atp-binding protein (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1267 MJ1267 Methanococcus jannaschii 2190 -11541139 173180 high-affinity branched-chain amino acid transport atp-binding protein homolog (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:for1211886-1212659) B64458 B64458 Methanococcus jannaschii 2190 -11541139 247700 mj1267 high-affinity branched-chain amino acid (db:genpept-bct1) (de:methanococcus jannaschii section 109 of 150 of the complete genome.) (nt:similar to gb:d90223 sp:p21629 pid:216866 percent) (le:6311) (re:7084) (di:direct) U67567 U67567 g1591902 Methanococcus jannaschii 2190 -11541139 6500737281 braf:high-affinity branched-chain amino acid transport atp-binding protein (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1267 MJ1267 Methanococcus jannaschii 2190 -11541139

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932074	20720	42876	1701	566

Description

5000698338 brag:high-affinity branched-chain amino acid transport atp-binding protein (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1268 MJ1268 Methanococcus jannaschii 2190 -11541140 173179 high-affinity branched-chain amino acid transport atp-binding protein (cl:atp-binding cassette homology) (db:pir2.dat) (mp:for1212818-1213393) C64458 C64458 Methanococcus jannaschii 2190 -11541140 247701 mj1268 high-affinity branched-chain amino acid (db:genpept-bct1) (de:methanococcus jannaschii section 109 of 150 of the complete genome.) (nt:similar to gb:d90223 sp:p21630 pid:216867 percent) (le:7243) (re:7818) (di:direct) U67567 U67567 g1591903 Methanococcus jannaschii 2190 -11541140 6500737282 brag:high-affinity branched-chain amino acid transport atp-binding protein (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1268 MJ1268 Methanococcus jannaschii 2190 -11541140

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932100	20721	42877	666	221

Description

5000698339 high-affinity branched-chain amino acid transport protein:brad:branched-chain amino acid transport protein livh (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1269 MJ1269 Methanococcus jannaschii 2190 -11541141 172987 branched-chain amino acid transport protein livh homolog (db:pir2.dat) (mp:for1213426-1214373) D64458 D64458 Methanococcus jannaschii 2190 -11541141 247702 mj1269 high-affinity branched-chain amino acid (db:genpept-bct1) (de:methanococcus jannaschii section 109 of 150 of the complete genome.) (nt:similar to gb:d90223 sp:p21627 gb:m31071 pid:216864) (le:7851) (re:8798) (di:direct) U67567 U67567 g1591904 Methanococcus jannaschii 2190 -11541141 6500737283 high-affinity branched-chain amino acid transport protein:brad:branched-chain amino acid transport protein livh (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1269 MJ1269 Methanococcus jannaschii 2190 -11541141

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932109	20722	42878	369	122

Description

5000698340 high-affinity branched-chain amino acid transport protein:brae:branched-chain amino acid transport protein livm (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1270 MJ1270 Methanococcus jannaschii 2190 -11541142 172989 branched-chain amino acid transport protein livm homolog (db:pir2.dat) (mp:for1214395-1215432) E64458 E64458 Methanococcus jannaschii 2190 -11541142 247703 mj1270 high-affinity branched-chain amino acid (db:genpept-bct1) (de:methanococcus jannaschii section 109 of 150 of the complete genome.) (nt:similar to gb:d90223 sp:p21628 gb:m64046 pid:216865) (le:8820) (re:9857) (di:direct) U67567 U67567 g1591905 Methanococcus jannaschii 2190 -11541142 6500737284 high-affinity branched-chain amino acid transport protein:brae:branched-chain amino acid transport protein livm (gtcfc:12.1:12.6) (keggfc:11.1) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1270 MJ1270 Methanococcus jannaschii 2190 -11541142

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932119	20723	42879	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932132	20724	42880	249	82

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932135	20725	42881	597	198

Description

5000698365 sodium-dependent transporter:hypothetical sodium-dependent transporter (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1319 MJ1319 Methanococcus jannaschii 2190 -11541143 1500687374 mj1319 (de:hypothetical sodium-dependent transporter mj1319) (db:swissprot) YD19_METJA Q58715 METHANOCOCCUS JANNASCHII 2190 -11541143 174544 sodium-dependent noradrenaline transporter homolog (cl:gamma-aminobutyric acid transporter) (db:pir2.dat) (mp:for1264962-1266440) F64464 F64464 Methanococcus jannaschii 2190 -11541143 247752 mj1319 sodium-dependent transporter (db:genpept-bct1) (de:methanococcus jannaschii section 114 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44849 pid:1005680) (le:71) (re:1549) (di:direct) U67572 U67572 g1591959 Methanococcus jannaschii 2190 -11541143 6500737285 sodium-dependent transporter:hypothetical sodium-dependent transporter (gtcfc:12.1) (keggfc:14.2) (tigrfc:13.2) (db:gtc-methanococcus jannaschii) MJ1319 MJ1319 Methanococcus jannaschii 2190 -11541143

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932140	20726	42882	1470	489

Description

6500737286 alkyl hydroperoxide reductase (gtcfc:12.12) (ec:1.6.4.-) (keggfc:14.1) (tigrfc:4.5) (db:gtc-methanococcus jannaschii) MJ0736 MJ0736 Methanococcus jannaschii 2190 -11541144 7500892894 mj0736 (de:probable peroxiredoxin) (db:swissprot) TDXH_METJA Q58146 METHANOCOCCUS JANNASCHII 2190 -11541144 172950 alkyl hydroperoxide reductase (cl:alkyl hydroperoxide reductase c22 protein:alkyl hydroperoxidase c22 protein homology) (ec:1.6.4.-) (db:pir2.dat) (mp:rev667575-666907) H64391 H64391 Methanococcus jannaschii 2190 -11541144 7500892896 mj0736 alkyl hydroperoxide reductase (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:similar to pid:620126 pid:1000574 gb:ae000666) (le:1452) (re:2120) (di:complement) U67520 U67520 g1591451 Methanococcus jannaschii 2190 -11541144 247170 mju67520 (le:666907) (re:667575) (di:direct) (de:or:methanococcus jannaschii pn:alkyl hydroperoxide reductase gn:mj0736 le:1452 re:2120 di:complement nt:similar to s51098 percent identity: 66.0;) U67520 U67520 g1591451 Methanococcus jannaschii 2190 -11541144 5000698347 (de:(mj0736) (pn:alkyl hydroperoxide reductase) (gtcfc:12.12) (ec:) (keggfc:11.2) (tigrfc:4.4) (db:gtc-methanococcus jannaschii)) MJ0736 MJ0736 Methanococcus jannaschii 2190 10091413

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932152	20727	42883	1989	662

Description

5000698348 trza:n-ethylammeline chlorohydrolase (gtcfc:12.12) (keggfc:14.2) (tigrfc:4.5) (db:gtc-methanococcus jannaschii) MJ1541 MJ1541 Methanococcus jannaschii 2190 -11541145 7500923240 mj1541 (de:hypothetical protein mj1541) (db:swissprot) YF41_METJA Q58936 METHANOCOCCUS JANNASCHII 2190 -11541145 174357 n-ethylammeline chlorohydrolase homolog (cl:aquifex aeolicus n-ethylammeline chlorohydrolase) (db:pir2.dat) (mp:rev1518730-1517468) D64492 D64492 Methanococcus jannaschii 2190 -11541145 7500923242 mj1541 n-ethylammeline chlorohydrolase trza (db:genpept-bct1) (de:methanococcus jannaschii section 137 of 150 of the complete genome.) (nt:similar to gb:l16534 pid:294671 percent ident:) (le:809) (re:2071) (di:complement) U67595 U67595 g1592173 Methanococcus jannaschii 2190 -11541145 6500737287 trza:n-ethylammeline chlorohydrolase (gtcfc:12.12) (keggfc:14.2) (tigrfc:4.5) (db:gtc-methanococcus jannaschii) MJ1541 MJ1541 Methanococcus jannaschii 2190 -11541145 247974 mju67595 (le:1517468) (re:1518730) (di:direct) (de:or:methanococcus jannaschii pn:n-ethylammeline chlorohydrolase gn:mj1541 le:809 re:2071 di:complement nt:similar to l16534_2 percent identity: 29.2;) U67595 U67595 g1592173 Methanococcus jannaschii 2190 -11541145

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932162	20728	42884	1341	446

Description

5000699416 potassium channel protein:hypothetical protein (gtcfc:12.13) (keggfc:14.2) (tigrfc:14.1) (db:gtc-methanococcus jannaschii) MJ0139 MJ0139 Methanococcus jannaschii 2190 -11541146 118810 mj0139 (de:hypothetical protein mj0139) (db:swissprot) Y139_METJA Q57603 METHANOCOCCUS JANNASCHII 2190 -11541146 173361 hypothetical protein mj0139 (db:pir2.dat) (mp:for136616-137245) C64317 C64317 Methanococcus jannaschii 2190 -11541146 246573 mj0139 potassium channel protein (db:genpept-bct1) (de:methanococcus jannaschii section 13 of 150 of the complete genome.) (nt:similar to gb:l02752 sp:p16389 pid:186669 percent) (le:2620) (re:3249) (di:direct) U67471 U67471 g1498908 Methanococcus jannaschii 2190 -11541146 6500737288 potassium channel protein:hypothetical protein (gtcfc:12.13) (keggfc:14.2) (tigrfc:14.1) (db:gtc-methanococcus jannaschii) MJ0139 MJ0139 Methanococcus jannaschii 2190 -11541146

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932175	20729	42885	696	231

Description

5000698447 trab:pheromone shutdown protein (gtcfc:12.13) (keggfc:14.2) (tigrfc:14.1) (db:gtc-methanococcus jannaschii) MJ1365 MJ1365 Methanococcus jannaschii 2190 -11541147 174406 probable pheromone shutdown protein (cl:pheromone shutdown protein) (db:pir2.dat) (mp:for1314715-1315908) D64470 D64470 Methanococcus jannaschii 2190 -11541147 247798 mj1365 pheromone shutdown protein trab (db:genpept-bct1) (de:methanococcus jannaschii section 118 of 150 of the complete genome.) (nt:similar to gb:u00681 pid:388268 pid:475428 percent) (le:6254) (re:7447) (di:direct) U67576 U67576 g1592009 Methanococcus jannaschii 2190 -11541147 6500737289 trab:pheromone shutdown protein (gtcfc:12.13) (keggfc:14.2) (tigrfc:14.1) (db:gtc-methanococcus jannaschii) MJ1365 MJ1365 Methanococcus jannaschii 2190 -11541147

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932191	20730	42886	312	103

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932201	20731	42887	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932221	20732	42888	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932244	20733	42889	384	127

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932245	20734	42890	489	162

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932251	20735	42891	249	82

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932255	20736	42892	627	208

Description

5000698362 sn-glycerol-3-phosphate transport atp-binding protein:ugpc:hypothetical abc transporter atp-binding protein (gtcfc:12.2) (keggfc:14.2) (tigrfc:13.4) (db:gtc-methanococcus jannaschii) MJ0121 MJ0121 Methanococcus jannaschii 2190 -11541148 117303 mj0121 (de:hypothetical abc transporter atp-binding protein mj0121) (db:swissprot) Y121_METJA Q57585 METHANOCOCCUS JANNASCHII 2190 -11541148 174543 sn-glycerol-3-phosphate transport atp-binding protein homolog (cl:atp-binding cassette homology) (db:pir2.dat) (mp:rev117852-117067) A64315 A64315 Methanococcus jannaschii 2190 -11541148 246555 mj0121 sn-glycerol-3-phosphate transport atp-binding (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to sp:p10907 gb:u00039 pid:43249 pid:912455) (le:5437) (re:6222) (di:complement) U67469 U67469 g1590892 Methanococcus jannaschii 2190 -11541148 6500737290 sn-glycerol-3-phosphate transport atp-binding protein:ugpc:hypothetical abc transporter atp-binding protein (gtcfc:12.2) (keggfc:14.2) (tigrfc:13.4) (db:gtc-methanococcus jannaschii) MJ0121 MJ0121 Methanococcus jannaschii 2190 -11541148

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932256	20737	42893	318	105

Description

5000698363 malic acid transport protein:hypothetical protein (gtcfc:12.2) (keggfc:14.2) (tigrfc:13.4) (db:gtc-methanococcus jannaschii) MJ0576 MJ0576 Methanococcus jannaschii 2190 -11541149 4000708353 mj0576 (de:hypothetical protein mj0576) (db:swissprot) Y576_METJA Q57996 METHANOCOCCUS JANNASCHII 2190 -11541149 174316 malic acid transport protein homolog (db:pir2.dat) (mp:for511924-512967) H64371 H64371 Methanococcus jannaschii 2190 -11541149 247010 mj0576 malic acid transport protein (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to sp:p50537 percent identity: 23.78;) (le:7153) (re:8196) (di:direct) U67506 U67506 g1591283 Methanococcus jannaschii 2190 -11541149 6500737291 malic acid transport protein:hypothetical protein (gtcfc:12.2) (keggfc:14.2) (tigrfc:13.4) (db:gtc-methanococcus jannaschii) MJ0576 MJ0576 Methanococcus jannaschii 2190 -11541149

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932257	20738	42894	1752	583

Description

5000698364 malic acid transport protein:hypothetical protein (gtcfc:12.2) (keggfc:14.2) (tigrfc:13.4) (db:gtc-methanococcus jannaschii) MJ0762 MJ0762 Methanococcus jannaschii 2190 -11541150 4000708409 mj0762 (de:hypothetical protein mj0762) (db:swissprot) Y762_METJA Q58172 METHANOCOCCUS JANNASCHII 2190 -11541150 174315 malic acid transport protein (db:pir2.dat) (mp:rev685864-684836) B64395 B64395 Methanococcus jannaschii 2190 -11541150 247196 mj0762 c4-dicarboxylate transporter mae1 (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:similar to sp:p50537 percent identity: 24.34;) (le:8918) (re:9946) (di:complement) U67521 U67521 g1591472 Methanococcus jannaschii 2190 -11541150 6500737292 malic acid transport protein:hypothetical protein (gtcfc:12.2) (keggfc:14.2) (tigrfc:13.4) (db:gtc-methanococcus jannaschii) MJ0762 MJ0762 Methanococcus jannaschii 2190 -11541150

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932261	20739	42895	708	235

Description

GTC ORF with score 197 to: (sr:bacillus subtilis (strain:168) dna) (db:genpept-bct1) (de:bacillus subtilis genome sequence, 148 kb sequence of the regionbetween 35 and 47 degree.) (nt:function unknown.) (le:85834) (re:86376) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932268	20740	42896	360	119

Description

5000698373 nitrate transporter protein:nrtc homolog:cmpc:hypothetical abc transporter atp-binding protein (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of anions (cl_so4_po4_etc_):cell processes-transporters of unknown specificity (abc_atpases_drug) or metals) MJ0412 MJ0412 Methanococcus jannaschii 2190 -11541151 500684752 mj0412 (de:hypothetical abc transporter atp-binding protein mj0412) (db:swissprot) Y412_METJA Q57855 METHANOCOCCUS JANNASCHII 2190 -11541151 174381 nitrate transport atp-binding protein (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:rev372553-371750) D64351 D64351 Methanococcus jannaschii 2190 -11541151 246846 mj0412 nitrate transporter protein nrtc homolog (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:similar to pid:1019380 percent identity: 47.43;) (le:6304) (re:7107) (di:complement) U67493 U67493 g1591118 Methanococcus jannaschii 2190 -11541151 6500737293 nitrate transporter protein:nrtc homolog:cmpc:hypothetical abc transporter atp-binding protein (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) MJ0412 MJ0412 Methanococcus jannaschii 2190 -11541151

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932277	20741	42897	1008	335

Description

GTC ORF with score 182 to: (db:genpept-inv) (de:caenorhabditis elegans cosmid b0334, complete sequence.) (nt:similar to phytoene synthase precursor; cdna est) (le:18553:18952:19164:19857) (re:18884:19114:19427:20360) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932281	20742	42898	3252	1083

Description

5000698374 nitrate transporter protein:nrtb homolog:cmpb:putative abc transporter permease protein (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of anions (cl_so4_po4_etc_):cell processes-transporters of unknown specificity (abc_atpases_drug) or metals) MJ0413 MJ0413 Methanococcus jannaschii 2190 -11541152 4000709908 mj0413 (de:putative abc transporter permease protein mj0413) (db:swissprot) Y413_METJA Q57856 METHANOCOCCUS JANNASCHII 2190 -11541152 174382 nitrate transport protein nrtb homolog (cl:synechococcus nitrate transport protein nrtb) (db:pir2.dat) (mp:rev373335-372532) E64351 E64351 Methanococcus jannaschii 2190 -11541152 246847 mj0413 nitrate transporter protein nrtb homolog (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:similar to pid:1019379 percent identity: 38.53;) (le:7086) (re:7889) (di:complement) U67493 U67493 g1591119 Methanococcus jannaschii 2190 -11541152 6500737294 nitrate transporter protein:nrtb homolog:cmpb:putative abc transporter permease protein (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) MJ0413 MJ0413 Methanococcus jannaschii 2190 -11541152

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932313	20743	42899	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932331	20744	42900	3921	1306

Description

5000698446 putative phosphate permease:hypothetical protein (gtcfc:12.4) (keggfc:14.2) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of anions (cl_so4_po4_etc_)) MJ0630 MJ0630 Methanococcus jannaschii 2190 -11541153 4000708382 mj0630 (de:hypothetical protein mj0630) (db:swissprot) Y630_METJA Q58047 METHANOCOCCUS JANNASCHII 2190 -11541153 174545 sodium-dependent phosphate transporter (db:pir2.dat) (mp:for556875-557768) F64378 F64378 Methanococcus jannaschii 2190 -11541153 247064 mj0630 putative phosphate permease (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to gp:535456 percent identity: 32.65;) (le:11326) (re:12219) (di:direct) U67510 U67510 g1591341 Methanococcus jannaschii 2190 -11541153 6500737295 putative phosphate permease:hypothetical protein (gtcfc:12.4) (keggfc:14.2) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) MJ0630 MJ0630 Methanococcus jannaschii 2190 -11541153

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932356	20745	42901	1695	564

Description

5000698375 phou:phosphate transport system regulatory protein (gtcfc:12.4) (keggfc:14.2) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of anions (cl_so4_po4_etc_)) MJ1009 MJ1009 Methanococcus jannaschii 2190 -11541154 174410 phosphate transport system regulatory protein homolog (cl:phou protein) (db:pir2.dat) (mp:rev939905-939195) H64425 H64425 Methanococcus jannaschii 2190 -11541154 247442 mj1009 phosphate transport system regulatory protein (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:similar to pid:633996 percent identity: 30.40;) (le:7273) (re:7983) (di:complement) U67543 U67543 g1591668 Methanococcus jannaschii 2190 -11541154 6500737296 phou:phosphate transport system regulatory protein (gtcfc:12.4) (keggfc:14.2) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) MJ1009 MJ1009 Methanococcus jannaschii 2190 -11541154

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932368	20746	42902	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932374	20747	42903	1977	658

Description

5000698376 phosphate specific transport complex component:pstb:phosphate transport system atp-binding protein (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of anions (cl_so4_po4_etc_):cell processes-transporters of unknown specificity (abc_atpases_drug) or metals) MJ1012 MJ1012 Methanococcus jannaschii 2190 -11541155 7500888882 pstb:mj1012 (de:probable phosphate transport atp-binding protein pstb) (db:swissprot) PSTB_METJA Q58418 METHANOCOCCUS JANNASCHII 2190 -11541155 174407 phosphate transport system atp-binding protein (cl:inner membrane protein malk:atp-binding cassette homology) (db:pir2.dat) (mp:rev942687-941929) C64426 C64426 Methanococcus jannaschii 2190 -11541155 7500888884 mj1012 phosphate specific transport complex component (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:similar to pid:633995 percent ident: 68.80;) (le:59) (re:817) (di:complement) U67544 U67544 g1591672 Methanococcus jannaschii 2190 -11541155 6500737297 phosphate specific transport complex component:pstb:phosphate transport system atp-binding protein (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) MJ1012 MJ1012 Methanococcus jannaschii 2190 -11541155 247445 mju67544 (le:941929) (re:942687) (di:direct) (de:or:methanococcus jannaschii pn:phosphate transport system atp-binding protein gn:mj1012 le:59 re:817 di:complement nt:similar to p07655 percent identity: 60.9;) U67544 U67544 g1591672 Methanococcus jannaschii 2190 -11541155

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932391	20748	42904	411	136

Description

5000698377 psta:phosphate transport system permease protein a (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of anions (cl_so4_po4_etc_):cell processes-transporters of unknown specificity (abc_atpases_drug) or metals) MJ1013 MJ1013 Methanococcus jannaschii 2190 -11541156 7500888876 psta:mj1013 (de:probable phosphate transport system permease protein psta) (db:swissprot) PSTA_METJA Q58419 METHANOCOCCUS JANNASCHII 2190 -11541156 174408 phosphate transport system permease protein a (db:pir2.dat) (mp:rev943563-942718) D64426 D64426 Methanococcus jannaschii 2190 -11541156 7500888878 mj1013 phosphate transport system permease protein a (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45190 pid:1007425) (le:848) (re:1693) (di:complement) U67544 U67544 g1591673 Methanococcus jannaschii 2190 -11541156 6500737298 psta:phosphate transport system permease protein a (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) MJ1013 MJ1013 Methanococcus jannaschii 2190 -11541156 247446 mju67544 (le:942718) (re:943563) (di:direct) (de:or:methanococcus jannaschii pn:phosphate transport system permease protein a gn:mj1013 le:848 re:1693 di:complement nt:similar to egad:hi1381 percent identity: 36.2;) U67544 U67544 g1591673 Methanococcus jannaschii 2190 -11541156

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932396	20749	42905	1287	428

Description

5000698378 pstc:phosphate transport system permease protein c (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of anions (cl_so4_po4_etc_):cell processes-transporters of unknown specificity (abc_atpases_drug) or metals) MJ1014 MJ1014 Methanococcus jannaschii 2190 -11541157 7500888889 pstc:mj1014 (de:probable phosphate transport system permease protein pstc) (db:swissprot) PSTC_METJA Q58420 METHANOCOCCUS JANNASCHII 2190 -11541157 174409 phosphate transport system permease protein c (db:pir2.dat) (mp:rev944497-943550) E64426 E64426 Methanococcus jannaschii 2190 -11541157 7500888891 mj1014 phosphate transport system permease protein c (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45191 pid:1007427) (le:1680) (re:2627) (di:complement) U67544 U67544 g1591674 Methanococcus jannaschii 2190 -11541157 6500737299 pstc:phosphate transport system permease protein c (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) MJ1014 MJ1014 Methanococcus jannaschii 2190 -11541157 247447 mju67544 (le:943550) (re:944497) (di:direct) (de:or:methanococcus jannaschii pn:phosphate transport system permease protein c gn:mj1014 le:1680 re:2627 di:complement nt:similar to egad:hi1382 percent identity: 38.2;) U67544 U67544 g1591674 Methanococcus jannaschii 2190 -11541157

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932428	20750	42906	999	332

Description

5000698379 periplasmic phosphate-binding protein:psts:phosphate-binding protein (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of anions (cl_so4_po4_etc_):cell processes-transporters of unknown specificity (abc_atpases_drug) or metals) MJ1015 MJ1015 Methanococcus jannaschii 2190 -11541158 174411 phosphate-binding protein (cl:phosphate-repressible phosphate-binding protein) (db:pir2.dat) (mp:rev945831-944662) F64426 F64426 Methanococcus jannaschii 2190 -11541158 247448 mj1015 periplasmic phosphate-binding protein psts (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p06128 gb:k01992 gb:m24254) (le:2792) (re:3961) (di:complement) U67544 U67544 g1591675 Methanococcus jannaschii 2190 -11541158 6500737300 periplasmic phosphate-binding protein:psts:phosphate-binding protein (gtcfc:12.4:12.6) (keggfc:11.1) (tigrfc:13.3) (db:gtc-methanococcus jannaschii) MJ1015 MJ1015 Methanococcus jannaschii 2190 -11541158

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932431	20751	42907	618	205

Description

5000698366 na+/h+ antiporter:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0057 MJ0057 Methanococcus jannaschii 2190 -11541159 118756 mj0057 (de:hypothetical protein mj0057) (db:swissprot) Y057_METJA Q60362 METHANOCOCCUS JANNASCHII 2190 -11541159 173205 hypothetical protein homolog mj0057 (cl:hypothetical protein mj0057) (db:pir2.dat) (mp:rev57462-56182) A64307 A64307 Methanococcus jannaschii 2190 -11541159 246491 mj0057 na+/h+ antiporter (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to gp:1653008 percent identity: 28.26;) (le:7470) (re:8750) (di:complement) U67463 U67463 g1498818 Methanococcus jannaschii 2190 -11541159 6500737301 na+/h+ antiporter:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0057 MJ0057 Methanococcus jannaschii 2190 -11541159

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932432	20752	42908	3369	1122

Description

5000698380 iron transport periplasmic binding protein:putative:ceue:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0085 MJ0085 Methanococcus jannaschii 2190 -11541160 118773 mj0085 (de:hypothetical protein mj0085) (db:swissprot) Y085_METJA Q57550 METHANOCOCCUS JANNASCHII 2190 -11541160 174296 iron transport system binding protein (db:pir2.dat) (mp:for79630-80751) E64310 E64310 Methanococcus jannaschii 2190 -11541160 246519 mj0085 iron transport periplasmic binding protein (db:genpept-bct1) (de:methanococcus jannaschii section 8 of 150 of the complete genome.) (nt:similar to pid:1107531 percent identity: 25.10;) (le:93) (re:1214) (di:direct) U67466 U67466 g1590868 Methanococcus jannaschii 2190 -11541160 6500737302 iron transport periplasmic binding protein:putative:ceue:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0085 MJ0085 Methanococcus jannaschii 2190 -11541160

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932437	20753	42909	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932446	20754	42910	420	139

Description

GTC ORF with score 100 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid c02h7.) (nt:short region of similarity to myosin heavy chain;) (le:31755:32125:32665:32868) (re:31895:32283:32811:33331) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932451	20755	42911	264	87

Description

5000698381 hemin permease:hemu:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0087 MJ0087 Methanococcus jannaschii 2190 -11541161 121672 mj0087 (de:putative abc transporter permease protein mj0087) (db:swissprot) Y087_METJA Q57552 METHANOCOCCUS JANNASCHII 2190 -11541161 173173 hemin permease homolog (cl:vitamin b12 transport protein btuc) (db:pir2.dat) (mp:for81930-82979) G64310 G64310 Methanococcus jannaschii 2190 -11541161 246521 mj0087 hemin permease hemu (db:genpept-bct1) (de:methanococcus jannaschii section 8 of 150 of the complete genome.) (nt:similar to gb:x77867 pid:541768 pid:1619624 percent) (le:2393) (re:3442) (di:direct) U67466 U67466 g1590869 Methanococcus jannaschii 2190 -11541161 6500737303 hemin permease:hemu:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0087 MJ0087 Methanococcus jannaschii 2190 -11541161

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932453	20756	42912	690	229

Description

5000698382 ferric enterobactin transport atp-binding protein:hypothetical abc transporter atp-binding protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0089 MJ0089 Methanococcus jannaschii 2190 -11541162 117302 mj0089 (de:hypothetical abc transporter atp-binding protein mj0089) (db:swissprot) Y089_METJA Q57554 METHANOCOCCUS JANNASCHII 2190 -11541162 173104 ferric enterobactin transport atp-binding protein homolog (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:for83541-84305) A64311 A64311 Methanococcus jannaschii 2190 -11541162 246523 mj0089 ferric enterobactin transport atp-binding (db:genpept-bct1) (de:methanococcus jannaschii section 8 of 150 of the complete genome.) (nt:similar to sp:p23878 gb:x57471 pid:41432 gb:u00096) (le:4004) (re:4768) (di:direct) U67466 U67466 g1498853 Methanococcus jannaschii 2190 -11541162 6500737304 ferric enterobactin transport atp-binding protein:hypothetical abc transporter atp-binding protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0089 MJ0089 Methanococcus jannaschii 2190 -11541162

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932461	20757	42913	561	186

Description

GTC ORF with score 128 to: (db:genpept-inv) (de:caenorhabditis elegans cosmid f36h1, complete sequence.) (nt:similarity to human ankaryin (sw:ankb_human); cdna) (le:15689:16087:16198:16431) (re:15802:16152:16299:16604) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932480	20758	42914	483	160

Description

5000698332 ferripyochelin binding protein:fbp:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0304 MJ0304 Methanococcus jannaschii 2190 -11541163 1500685921 mj0304 (de:hypothetical protein mj0304) (db:swissprot) Y304_METJA Q57752 METHANOCOCCUS JANNASCHII 2190 -11541163 173106 ferripyochelin binding protein homolog (cl:ferripyochelin binding protein) (db:pir2.dat) (mp:rev286504-286025) A64338 A64338 Methanococcus jannaschii 2190 -11541163 246739 mj0304 ferripyochelin binding protein fbp (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to gb:m82832 sp:p40882 pid:151224 percent) (le:4826) (re:5305) (di:complement) U67485 U67485 g1591027 Methanococcus jannaschii 2190 -11541163 6500737305 ferripyochelin binding protein:fbp:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0304 MJ0304 Methanococcus jannaschii 2190 -11541163

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932490	20759	42915	1281	426

Description

5000698383 ferrous iron transport protein b:feob:ferrous iron transport protein b homolog (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0566 MJ0566 Methanococcus jannaschii 2190 -11541164 4000709036 mj0566 (de:ferrous iron transport protein b homolog) (db:swissprot) FEOB_METJA Q57986 METHANOCOCCUS JANNASCHII 2190 -11541164 173107 ferrous iron transport protein b (cl:ferrous iron transport protein b:translation elongation factor tu homology) (db:pir2.dat) (mp:rev504509-502503) F64370 F64370 Methanococcus jannaschii 2190 -11541164 247000 mj0566 ferrous iron transport protein b feob (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:similar to sp:p33650 pid:606344 pid:1199515) (le:10027) (re:12033) (di:complement) U67505 U67505 g1591272 Methanococcus jannaschii 2190 -11541164 6500737306 ferrous iron transport protein b:feob:ferrous iron transport protein b homolog (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0566 MJ0566 Methanococcus jannaschii 2190 -11541164

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932493	20760	42916	216	71

Description

5000698384 membrane bound transport protein:putative:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0672 MJ0672 Methanococcus jannaschii 2190 -11541165 4000709410 mj0672 (de:hypothetical protein mj0672) (db:swissprot) Y672_METJA Q58086 METHANOCOCCUS JANNASCHII 2190 -11541165 174372 na+ transporter (db:pir2.dat) (mp:rev598993-597695) H64383 H64383 Methanococcus jannaschii 2190 -11541165 247106 mj0672 membrane bound transport protein:putative (db:genpept-bct1) (de:methanococcus jannaschii section 56 of 150 of the complete genome.) (nt:similar to gb:142023 pid:1005433 pid:1220685) (le:6410) (re:7708) (di:complement) U67514 U67514 g1591386 Methanococcus jannaschii 2190 -11541165 6500737307 membrane bound transport protein:putative:hypothetical protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0672 MJ0672 Methanococcus jannaschii 2190 -11541165

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932494	20761	42917	1128	375

Description

GTC ORF with score 374 to: (db:genpept-pln2) (de:emericella nidulans sterigmatocystin biosynthetic gene cluster:(stca), (stcb), (stcc), (stce), (aflr), (stcf), (stci), (stcj),(stck), (stcl), (stco), (stcq), (stcs), (stct), (stcu), (stcv) and(stcw) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932498	20762	42918	369	122

Description

5000698385 ferric enterobactin transport atp-binding protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0873 MJ0873 Methanococcus jannaschii 2190 -11541166 7500895582 mj0873 (de:hypothetical abc transporter atp-binding protein mj0873) (db:swissprot) Y873_METJA Q58283 METHANOCOCCUS JANNASCHII 2190 -11541166 173105 ferric enterobactin transport atp-binding protein homolog (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:for797371-798243) A64409 A64409 Methanococcus jannaschii 2190 -11541166 6500737308 ferric enterobactin transport atp-binding protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0873 MJ0873 Methanococcus jannaschii 2190 -11541166 247307 mju67531 (le:797371) (re:798243) (di:direct) (de:or:methanococcus jannaschii pn:ferric enterobactin transport atp-binding gn:mj0873 le:5593 re:6465 di:direct nt:similar to p23878 percent identity: 35.4;) U67531 U67531 g1591556 Methanococcus jannaschii 2190 -11541166

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932499	20763	42919	372	124

Description

5000698386 iron:iii dicitrate transport system permease protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0876 MJ0876 Methanococcus jannaschii 2190 -11541167 7500895595 mj0876 (de:putative abc transporter permease protein mj0876) (db:swissprot) Y876_METJA Q58286 METHANOCOCCUS JANNASCHII 2190 -11541167 174297 iron iii dicitrate transport system permease homolog (db:pir2.dat) (mp:rev801917-800862) D64409 D64409 Methanococcus jannaschii 2190 -11541167 7500895597 mj0876 iron iii dicitrate transport system permease (db:genpept-bct1) (de:methanococcus jannaschii section 73 of 150 of the complete genome.) (nt:similar to sp:p15030 gb:m26397 pid:145926 percent) (le:9084) (re:10139) (di:complement) U67531 U67531 g1591557 Methanococcus jannaschii 2190 -11541167 6500737309 iron:iii dicitrate transport system permease protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0876 MJ0876 Methanococcus jannaschii 2190 -11541167 247310 mju67531 (le:800862) (re:801917) (di:direct) (de:or:methanococcus jannaschii pn:iron(iii) dicitrate transport system permease gn:mj0876 le:9084 re:10139 di:complement nt:similar to p15030 percent identity: 31.3;) U67531 U67531 g1591557 Methanococcus jannaschii 2190 -11541167

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932506	20764	42920	471	156

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932510	20765	42921	327	108

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932576	20766	42922	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932592	20767	42923	249	82

Description

5000698387 hemin permease (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0877 MJ0877 Methanococcus jannaschii 2190 -11541168 7500895598 mj0877 (de:putative abc transporter permease protein mj0877) (db:swissprot) Y877_METJA Q58287 METHANOCOCCUS JANNASCHII 2190 -11541168 173172 hemin permease (db:pir2.dat) (mp:rev802289-801918) E64409 E64409 Methanococcus jannaschii 2190 -11541168 6500737310 hemin permease (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0877 MJ0877 Methanococcus jannaschii 2190 -11541168 247311 mju67531 (le:801918) (re:802289) (di:direct) (de:or:methanococcus jannaschii pn:hemin permease gn:mj0877 le:10140 re:10511 di:complement nt:similar to egad:hi1471 percent identity: 35.3;) U67531 U67531 g1591558 Methanococcus jannaschii 2190 -11541168

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932593	20768	42924	417	139

Description

5000698388 magnesium chelatase:m (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0910 MJ0910 Methanococcus jannaschii 2190 -11541169 173787 hypothetical protein mj0910 (db:pir2.dat) (mp:rev841956-841432) F64413 F64413 Methanococcus jannaschii 2190 -11541169 247344 mj0910 magnesium chelatase (db:genpept-bct1) (de:methanococcus jannaschii section 76 of 150 of the complete genome.) (nt:similar to gp:1477448 percent identity: 33.14;) (le:7521) (re:8045) (di:complement) U67534 U67534 g1591584 Methanococcus jannaschii 2190 -11541169 6500737311 magnesium chelatase:m (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0910 MJ0910 Methanococcus jannaschii 2190 -11541169

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932597	20769	42925	1146	381

Description

GTC ORF with score 160 to: (sr:house mouse) (db:genpept-rod) (de:mus musculus protein tyrosine phosphatase-like mrna, unsplicedc-terminal product and spliced c-terminal end styx, complete cds.) (nt:spliced c-terminal end styx) (le:256:896) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932599	20770	42926	390	129

Description

5000698389 chli:magnesium-chelatase subunit (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ0911 MJ0911 Methanococcus jannaschii 2190 -11541170 174313 protoporphyrin ix magnesium chelatase:homolog (ec:4.99.1.-) (db:pir2.dat) (mp:rev843485-842388) G64413 G64413 Methanococcus jannaschii 2190 -11541170 247345 mj0911 magnesium-chelatase subunit chli (db:genpept-bct1) (de:methanococcus jannaschii section 76 of 150 of the complete genome.) (nt:similar to sp:p48101 percent identity: 54.69;) (le:8477) (re:9574) (di:complement) U67534 U67534 g1591585 Methanococcus jannaschii 2190 -11541170 6500737312 chli:magnesium-chelatase subunit (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ0911 MJ0911 Methanococcus jannaschii 2190 -11541170

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932603	20771	42927	1722	573

Description

5000698406 cora:magnesium and cobalt transport protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ1033 MJ1033 Methanococcus jannaschii 2190 -11541171 174311 magnesium and cobalt transport protein homolog (cl:magnesium and cobalt transport protein) (db:pir2.dat) (mp:for965089-966042) H64428 H64428 Methanococcus jannaschii 2190 -11541171 247466 mj1033 magnesium and cobalt transport protein cora (db:genpept-bct1) (de:methanococcus jannaschii section 88 of 150 of the complete genome.) (nt:similar to gb:142023 sp:p44998 pid:1006270) (le:1191) (re:2144) (di:direct) U67546 U67546 g1499876 Methanococcus jannaschii 2190 -11541171 6500737313 cora:magnesium and cobalt transport protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ1033 MJ1033 Methanococcus jannaschii 2190 -11541171

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932614	20772	42928	2172	723

Description

5000698394 trk system potassium uptake protein:trka:trk system potassium uptake protein a (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ1105 MJ1105 Methanococcus jannaschii 2190 -11541172 174591 trk system potassium uptake protein a (cl:methanococcus jannaschii trk system potassium uptake protein a) (db:pir2.dat) (mp:rev1045799-1045143) H64437 H64437 Methanococcus jannaschii 2190 -11541172 247538 mj1105 trk system potassium uptake protein trka (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:similar to gb:x74307 sp:p39449 pid:414170 percent) (le:4740) (re:5396) (di:complement) U67553 U67553 g1591749 Methanococcus jannaschii 2190 -11541172 6500737314 trk system potassium uptake protein:trka:trk system potassium uptake protein a (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ1105 MJ1105 Methanococcus jannaschii 2190 -11541172

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932615	20773	42929	315	104

Description

6500737315 napa:na:/h:antiporter (gtcfc:12.5) (ec:3.6.1.36) (keggfc:14.1) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ1275 MJ1275 Methanococcus jannaschii 2190 -11541173 174371 na+/h+-exchanging protein:na+/h+ antiporter (db:pir2.dat) (mp:for1218603-1219769) B64459 B64459 Methanococcus jannaschii 2190 -11541173 247708 mj1275 na + /h + antiporter napa (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:similar to sp:p26235 pid:148316 percent identity:) (le:3093) (re:4259) (di:direct) U67568 U67568 g1591911 Methanococcus jannaschii 2190 -11541173 5000698395 (de:(mj1275) (pn:na:na) (gtcfc:12.5) (ec:) (keggfc:11.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii)) MJ1275 MJ1275 Methanococcus jannaschii 2190 10092408

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932630	20774	42930	282	93

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932650	20775	42931	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932654	20776	42932	1395	464

Description

5000698341 ammonium transporter:amt:putative ammonium transporter (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ1343 MJ1343 Methanococcus jannaschii 2190 -11541174 117459 mj1343 (de:putative ammonium transporter mj1343) (db:swissprot) YD43_METJA Q58739 METHANOCOCCUS JANNASCHII 2190 -11541174 172955 ammonium transport protein amt1 (db:pir2.dat) (mp:rev1291103-1289841) F64467 F64467 Methanococcus jannaschii 2190 -11541174 247776 mj1343 ammonium transporter amt (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:similar to gb:x75879 sp:p54144 pid:2299143) (le:4460) (re:5722) (di:complement) U67574 U67574 g1591985 Methanococcus jannaschii 2190 -11541174 6500737316 ammonium transporter:amt:putative ammonium transporter (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ1343 MJ1343 Methanococcus jannaschii 2190 -11541174

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932655	20777	42933	363	120

Description

5000698396 potassium channel protein:putative:putative potassium channel protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ1357 MJ1357 Methanococcus jannaschii 2190 -11541175 117764 mj1357 (de:putative potassium channel protein mj1357) (db:swissprot) YD57_METJA Q58752 METHANOCOCCUS JANNASCHII 2190 -11541175 174435 potassium channel homolog (cl:conserved hypothetical protein sll0993) (db:pir2.dat) (mp:rev1308326-1307295) D64469 D64469 Methanococcus jannaschii 2190 -11541175 247790 mj1357 potassium channel protein:putative (db:genpept-bct1) (de:methanococcus jannaschii section 117 of 150 of the complete genome.) (nt:similar to pid:1652235 percent identity: 33.88;) (le:9984) (re:11015) (di:complement) U67575 U67575 g1592000 Methanococcus jannaschii 2190 -11541175 6500737317 potassium channel protein:putative:putative potassium channel protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ1357 MJ1357 Methanococcus jannaschii 2190 -11541175

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932663	20778	42934	1809	602

Description

6500737318 cysa:mj1367 sulfate transport atp-binding protein:sulfate permease (gtcfc:12.5:12.6) (keggfc:11.1) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_):cell processes-transporters of unknown specificity (abc_atpases_drug) or metals) MJ1367 MJ1367 Methanococcus jannaschii 2190 -11541176 174556 sulfate permease cysa (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:rev1317694-1316801) F64470 F64470 Methanococcus jannaschii 2190 -11541176 247800 mj1367 sulfate transport atp-binding protein cysa (db:genpept-bct1) (de:methanococcus jannaschii section 118 of 150 of the complete genome.) (nt:similar to sp:p14788 percent identity: 38.49;) (le:8340) (re:9233) (di:complement) U67576 U67576 g1592011 Methanococcus jannaschii 2190 -11541176 5000698397 (de:(mj1367) (pn:sulfate permease:cysa) (gn:cysa) (gtcfc:12.5) (ec:) (keggfc:11.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii)) MJ1367 MJ1367 Methanococcus jannaschii 2190 10092480

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932668	20779	42935	303	100

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932671	20780	42936	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932690	20781	42937	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932696	20782	42938	951	316

Description

5000698398 sulfate transport system permease protein:cyst:sulfate/thiosulfate transport protein (gtcfc:12.5:12.6) (keggfc:11.1) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_):cell processes-transporters of unknown specificity (abc_atpases_drug) or metals) MJ1368 MJ1368 Methanococcus jannaschii 2190 -11541177 174557 sulfate/thiosulfate transport protein homolog (cl:maltose transport protein malg) (db:pir2.dat) (mp:rev1318443-1317694) G64470 G64470 Methanococcus jannaschii 2190 -11541177 247801 mj1368 sulfate transport system permease protein (db:genpept-bct1) (de:methanococcus jannaschii section 118 of 150 of the complete genome.) (nt:similar to gb:m32101 sp:p16701 pid:145659 gb:u00096) (le:9233) (re:9982) (di:complement) U67576 U67576 g1592012 Methanococcus jannaschii 2190 -11541177 6500737319 sulfate transport system permease protein:cyst:sulfate/thiosulfate transport protein (gtcfc:12.5:12.6) (keggfc:11.1) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ1368 MJ1368 Methanococcus jannaschii 2190 -11541177

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932705	20783	42939	2064	687

Description

5000698399 chlh:magnesium chelatase subunit (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ1441 MJ1441 Methanococcus jannaschii 2190 -11541178 174312 protoporphyrin ix magnesium chelatase:homolog (ec:4.99.1.-) (db:pir2.dat) (mp:for1408283-1411963) H64479 H64479 Methanococcus jannaschii 2190 -11541178 247874 mj1441 magnesium chelatase subunit chlh (db:genpept-bct1) (de:methanococcus jannaschii section 127 of 150 of the complete genome.) (nt:similar to gb:z68495 pid:1154627 percent identity:) (le:1084) (re:4764) (di:direct) U67585 U67585 g1500323 Methanococcus jannaschii 2190 -11541178 6500737320 chlh:magnesium chelatase subunit (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ1441 MJ1441 Methanococcus jannaschii 2190 -11541178

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932706	20784	42940	264	87

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932709	20785	42941	258	85

Description

5000698400 trkg:trk system potassium uptake protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) (gtcfc:cell processes-transport of cations (na_k_ca_nh4_etc_)) MJ1485 MJ1485 Methanococcus jannaschii 2190 -11541179 174592 trk system potassium uptake protein homolog (cl:potassium uptake protein trkg) (db:pir2.dat) (mp:for1455229-1456653) D64485 D64485 Methanococcus jannaschii 2190 -11541179 247918 mj1485 trk system potassium uptake protein trkg (db:genpept-bct1) (de:methanococcus jannaschii section 131 of 150 of the complete genome.) (nt:similar to sp:p23849 gb:x56783 pid:43140 gb:u00096) (le:5672) (re:7096) (di:direct) U67589 U67589 g1592122 Methanococcus jannaschii 2190 -11541179 6500737321 trkg:trk system potassium uptake protein (gtcfc:12.5) (keggfc:14.2) (tigrfc:13.5) (db:gtc-methanococcus jannaschii) MJ1485 MJ1485 Methanococcus jannaschii 2190 -11541179

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932716	20786	42942	1722	573

Description

5000698402 abc transporter subunit cyanophora paradoxa:hypothetical abc transporter atp-binding protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ0035 MJ0035 Methanococcus jannaschii 2190 -11541180 117301 mj0035 (de:hypothetical abc transporter atp-binding protein mj0035) (db:swissprot) Y035_METJA Q60350 METHANOCOCCUS JANNASCHII 2190 -11541180 172929 abc transporter subunit (cl:atp-binding cassette homology) (db:pir2.dat) (mp:rev37281-36529) C64304 C64304 Methanococcus jannaschii 2190 -11541180 246469 mj0035 abc transporter subunit (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to sp:p48255 percent identity: 37.61;) (le:3053) (re:3805) (di:complement) U67462 U67462 g1590838 Methanococcus jannaschii 2190 -11541180 6500737322 abc transporter subunit cyanophora paradoxa:hypothetical abc transporter atp-binding protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ0035 MJ0035 Methanococcus jannaschii 2190 -11541180

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932734	20787	42943	966	321

Description

5000699417 potassium channel protein:putative potassium channel protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ0138.1 MJ0138.1 Methanococcus jannaschii 2190 -11541181 117763 mj0138.1 (de:putative potassium channel protein mj0138.1) (db:swissprot) Y13B_METJA Q57604 METHANOCOCCUS JANNASCHII 2190 -11541181 173360 hypothetical protein mj0138.1 (cl:conserved hypothetical protein sll0993) (db:pir2.dat) (mp:for137246-138247) D64317 D64317 Methanococcus jannaschii 2190 -11541181 246574 mj0138.1 potassium channel protein (db:genpept-bct1) (de:methanococcus jannaschii section 13 of 150 of the complete genome.) (nt:similar to gp:1652235 percent identity: 35.69;) (le:3250) (re:4251) (di:direct) U67471 U67471 g1498918 Methanococcus jannaschii 2190 -11541181 6500737323 potassium channel protein:putative potassium channel protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ0138.1 MJ0138.1 Methanococcus jannaschii 2190 -11541181

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932742	20788	42944	288	95

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932751	20789	42945	696	231

Description

5000698978 gtp-binding protein homologue:yphc:hypothetical protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ0920 MJ0920 Methanococcus jannaschii 2190 -11541182 7500895674 mj0920 (de:hypothetical protein mj0920) (db:swissprot) Y920_METJA Q58330 METHANOCOCCUS JANNASCHII 2190 -11541182 173252 hypothetical protein homolog mj0920 (cl:translation elongation factor tu homology) (db:pir2.dat) (mp:rev851560-851003) H64414 H64414 Methanococcus jannaschii 2190 -11541182 7500895676 mj0920 gtp-binding protein homologue yphc (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:similar to pid:1146219 sp:p50743 gb:al009126) (le:7441) (re:7998) (di:complement) U67535 U67535 g1591593 Methanococcus jannaschii 2190 -11541182 6500737324 gtp-binding protein homologue:yphc:hypothetical protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ0920 MJ0920 Methanococcus jannaschii 2190 -11541182 247354 mju67535 (le:851003) (re:851560) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein gn:mj0920 le:7441 re:7998 di:complement nt:similar to egad:mg329 percent identity: 32.7;) U67535 U67535 g1591593 Methanococcus jannaschii 2190 -11541182

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932765	20790	42946	2172	723

Description

5000698405 abc transporter atp-binding protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ1023 MJ1023 Methanococcus jannaschii 2190 -11541183 7500895841 mj1023 (de:hypothetical abc transporter atp-binding protein mj1023) (db:swissprot) YA23_METJA Q58429 METHANOCOCCUS JANNASCHII 2190 -11541183 172926 abc transporter atp-binding protein (cl:atp-binding cassette homology) (db:pir2.dat) (mp:for953757-954545) F64427 F64427 Methanococcus jannaschii 2190 -11541183 7500895843 mj1023 abc transporter atp-binding protein (db:genpept-bct1) (de:methanococcus jannaschii section 87 of 150 of the complete genome.) (nt:similar to sp:p26946 gb:x59424 pid:39478 percent) (le:1932) (re:2720) (di:direct) U67545 U67545 g1499865 Methanococcus jannaschii 2190 -11541183 6500737325 abc transporter atp-binding protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ1023 MJ1023 Methanococcus jannaschii 2190 -11541183 247456 mju67545 (le:953757) (re:954545) (di:direct) (de:or:methanococcus jannaschii pn:abc transporter atp-binding protein gn:mj1023 le:1932 re:2720 di:direct nt:similar to p26946 percent identity: 49.2;) U67545 U67545 g1499865 Methanococcus jannaschii 2190 -11541183

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932772	20791	42947	597	198

Description

5000698410 sp:p40010:hypothetical gtp-binding protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ1464 MJ1464 Methanococcus jannaschii 2190 -11541184 173196 hypothetical gtp-binding protein homolog (db:pir2.dat) (mp:for1432387-1433508) G64482 G64482 Methanococcus jannaschii 2190 -11541184 247897 mj1464 hypothetical gtp-binding protein sp:p40010 (db:genpept-bct1) (de:methanococcus jannaschii section 129 of 150 of the complete genome.) (nt:similar to sp:p40010 pid:603598 percent identity:) (le:1918) (re:3039) (di:direct) U67587 U67587 g1592105 Methanococcus jannaschii 2190 -11541184 6500737326 sp:p40010:hypothetical gtp-binding protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ1464 MJ1464 Methanococcus jannaschii 2190 -11541184

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932776	20792	42948	2841	946

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932778	20793	42949	699	232

Description

5000698411 abc transporter:probable atp-binding subunit (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ1508 MJ1508 Methanococcus jannaschii 2190 -11541185 5500686569 mj1508 (de:hypothetical abc transporter atp-binding protein mj1508) (db:swissprot) YF08_METJA Q58903 METHANOCOCCUS JANNASCHII 2190 -11541185 172928 abc transporter probable atp-binding subunit homolog (cl:unassigned atp-binding cassette proteins:atp-binding cassette homology) (db:pir2.dat) (mp:for1481222-1481896) C64488 C64488 Methanococcus jannaschii 2190 -11541185 247941 mj1508 abc transporter:probable atp-binding subunit (db:genpept-bct1) (de:methanococcus jannaschii section 133 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45247 pid:1007753) (le:9067) (re:9741) (di:direct) U67591 U67591 g1592142 Methanococcus jannaschii 2190 -11541185 6500737327 abc transporter:probable atp-binding subunit (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.1) (db:gtc-methanococcus jannaschii) MJ1508 MJ1508 Methanococcus jannaschii 2190 -11541185

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932787	20794	42950	288	95

Description

5000698367 chromate resistance protein:chra:chromate resistance protein a (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ0718 MJ0718 Methanococcus jannaschii 2190 -11541186 5500686363 mj0718 (de:hypothetical protein mj0718) (db:swissprot) Y718_METJA Q58128 METHANOCOCCUS JANNASCHII 2190 -11541186 173015 chromate resistance protein a homolog (cl:chromate resistance protein a) (db:pir2.dat) (mp:rev652045-650837) F64389 F64389 Methanococcus jannaschii 2190 -11541186 247152 mj0718 chromate resistance protein chra (db:genpept-bct1) (de:methanococcus jannaschii section 60 of 150 of the complete genome.) (nt:similar to gb:j05278 sp:p17551 pid:141913 percent) (le:7579) (re:8787) (di:complement) U67518 U67518 g1591434 Methanococcus jannaschii 2190 -11541186 6500737328 chromate resistance protein:chra:chromate resistance protein a (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ0718 MJ0718 Methanococcus jannaschii 2190 -11541186

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932790	20795	42951	267	88

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932803	20796	42952	702	233

Description

6500737329 plasma membrane atpase 1:aha1:h+-transporting atpase (gtcfc:12.6) (ec:3.6.1.35) (keggfc:14.1) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ1226 MJ1226 Methanococcus jannaschii 2190 -11541187 173168 h+-transporting atpase (cl:na+/k+-transporting atpase alpha chain:atpase nucleotide-binding domain homology) (ec:3.6.1.35) (db:pir2.dat) (mp:for1167961-1170378) A64453 A64453 Methanococcus jannaschii 2190 -11541187 247659 mj1226 plasma membrane atpase 1 aha1 (db:genpept-bct1) (de:methanococcus jannaschii section 105 of 150 of the complete genome.) (nt:similar to sp:p20649 percent identity: 44.42;) (le:5763) (re:8180) (di:direct) U67563 U67563 g1591857 Methanococcus jannaschii 2190 -11541187 5000698369 (de:(mj1226) (pn:h) (gtcfc:12.3:12.6) (ec:3.6.1.35) (keggfc:11.1) (tigrfc:13.6) (db:gtc-methanococcus jannaschii)) MJ1226 MJ1226 Methanococcus jannaschii 2190 10091536

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932811	20797	42953	831	276

Description

5000698371 na+/h+ antiporter:hypothetical protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ1521 MJ1521 Methanococcus jannaschii 2190 -11541188 174129 hypothetical protein mj1521 (cl:hypothetical protein mj0057) (db:pir2.dat) (mp:for1498907-1500175) H64489 H64489 Methanococcus jannaschii 2190 -11541188 118881 mj1521 (de:hypothetical protein mj1521) (db:swissprot) YF21_METJA Q58916 METHANOCOCCUS JANNASCHII 2190 -11541188 6500737330 na+/h+ antiporter:hypothetical protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ1521 MJ1521 Methanococcus jannaschii 2190 -11541188 247954 mju67593 (le:1498907) (re:1500175) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1521 gn:mj1521 le:7181 re:8449 di:direct nt:identified by genemark; putative) U67593 U67593 g1500411 Methanococcus jannaschii 2190 -11541188

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932818	20798	42954	369	122

Description

5000697946 nonspecific lipid-transfer protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ1549 MJ1549 Methanococcus jannaschii 2190 -11541189 174389 nonspecific lipid-transfer protein homolog (cl:probable 3-ketoacyl-coa thiolase mth1177) (db:pir2.dat) (mp:for1526429-1527607) D64493 D64493 Methanococcus jannaschii 2190 -11541189 247982 mj1549 3-keto-acyl-coa thiolase (db:genpept-bct1) (de:methanococcus jannaschii section 137 of 150 of the complete genome.) (nt:similar to gp:2190267 percent identity: 31.48;) (le:9770) (re:10948) (di:direct) U67595 U67595 g1592180 Methanococcus jannaschii 2190 -11541189 6500737331 nonspecific lipid-transfer protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ1549 MJ1549 Methanococcus jannaschii 2190 -11541189

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932831	20799	42955	276	91

Description

5000698372 multidrug-efflux transporter:bmr1:quinolone resistance nora protein protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ1560 MJ1560 Methanococcus jannaschii 2190 -11541190 174463 quinolone resistance protein nora homolog (db:pir2.dat) (mp:rev1536434-1535274) G64494 G64494 Methanococcus jannaschii 2190 -11541190 247993 mj1560 multidrug-efflux transporter bmr1 (db:genpept-bct1) (de:methanococcus jannaschii section 138 of 150 of the complete genome.) (nt:similar to gb:l25604 sp:p33449 gb:m33768 pid:142606) (le:7570) (re:8730) (di:complement) U67596 U67596 g1592184 Methanococcus jannaschii 2190 -11541190 6500737332 multidrug-efflux transporter:bmr1:quinolone resistance nora protein protein (gtcfc:12.6) (keggfc:14.2) (tigrfc:13.6) (db:gtc-methanococcus jannaschii) MJ1560 MJ1560 Methanococcus jannaschii 2190 -11541190

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932835	20800	42956	1152	383

Description

6500737333 peptidyl-prolyl cis-trans isomerase:fkbp-type rotamase:slyd:putative fkbp-type peptidyl-prolyl cis-trans isomerase mj0278:ppiase:rotamase (gtcfc:12.7) (ec:5.2.1.8) (keggfc:14.1) (tigrfc:4.3) (db:gtc-methanococcus jannaschii) MJ0278 MJ0278 Methanococcus jannaschii 2190 -11541191 500685239 mj0278 (ec:5.2.1.8) (de:(ec 5.2.1.8) (ppiase) (rotamase)) (db:swissprot) FKB1_METJA Q57726 METHANOCOCCUS JANNASCHII 2190 -11541191 174401 peptidylprolyl isomerase::peptidyl-prolyl cis-trans isomerase:rotamase (ec:5.2.1.8) (db:pir2.dat) (mp:rev265283-264810) G64334 G64334 Methanococcus jannaschii 2190 -11541191 246713 mj0278 peptidyl-prolyl cis-trans isomerase:fkbp-type (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44830 pid:1005610) (le:3237) (re:3710) (di:complement) U67483 U67483 g1591004 Methanococcus jannaschii 2190 -11541191 5000698413 (de:(mj0278) (pn:rotamase, peptidyl-prolyl cis-trans isomerase) (gtcfc:12.7) (ec:) (keggfc:11.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii)) MJ0278 MJ0278 Methanococcus jannaschii 2190 10064069

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932849	20801	42957	360	119

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932856	20802	42958	402	133

Description

GTC ORF with score 286 to: (sr:thale cress) (db:genpept-pln2) (de:arabidopsis thaliana chromosome 1 bac f9k20 sequence, completesequence.) (nt:similar to ubiquitin-conjugating enzyme e2-17 kd) (le:25664:25838:26044) (re:25723:25943:26117) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932859	20803	42959	267	88

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932861	20804	42960	237	78

Description

5000698414 small heat shock protein:hsp20:putative small heat shock protein (gtcfc:12.7) (keggfc:14.2) (tigrfc:4.3) (db:gtc-methanococcus jannaschii) MJ0285 MJ0285 Methanococcus jannaschii 2190 -11541192 118615 mj0285 (de:putative small heat shock protein mj0285) (db:swissprot) Y285_METJA Q57733 METHANOCOCCUS JANNASCHII 2190 -11541192 173170 heat shock protein (db:pir2.dat) (mp:rev270342-269899) F64335 F64335 Methanococcus jannaschii 2190 -11541192 246720 mj0285 small heat shock protein hsp20 (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to gp:1613786 percent identity: 30.30;) (le:8326) (re:8769) (di:complement) U67483 U67483 g1591008 Methanococcus jannaschii 2190 -11541192 6500737334 small heat shock protein:hsp20:putative small heat shock protein (gtcfc:12.7) (keggfc:14.2) (tigrfc:4.3) (db:gtc-methanococcus jannaschii) MJ0285 MJ0285 Methanococcus jannaschii 2190 -11541192

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932875	20805	42961	831	276

Description

6500737335 peptidyl-prolyl cis-trans isomerase:fkbp-type rotamase:slyd:putative fkbp-type peptidyl-prolyl cis-trans isomerase mj0825:ppiase:rotamase (gtcfc:12.7) (ec:5.2.1.8) (keggfc:14.1) (tigrfc:4.3) (db:gtc-methanococcus jannaschii) MJ0825 MJ0825 Methanococcus jannaschii 2190 -11541193 174400 peptidylprolyl isomerase::peptidyl-prolyl cis-trans isomerase:rotamase (cl:methanococcus jannaschii peptidylprolyl isomerase) (ec:5.2.1.8) (db:pir2.dat) (mp:rev747317-746595) A64403 A64403 Methanococcus jannaschii 2190 -11541193 1500687166 mj0825 (ec:5.2.1.8) (de:(ec 5.2.1.8) (ppiase) (rotamase)) (db:swissprot) FKB2_METJA Q58235 METHANOCOCCUS JANNASCHII 2190 -11541193 247259 mju67526 (le:746595) (re:747317) (di:direct) (de:or:methanococcus jannaschii pn:rotamase, peptidyl-prolyl cis-trans isomerase gn:mj0825 le:4804 re:5526 di:complement nt:similar to p21863 percent identity: 31.8;) U67526 U67526 g1591512 Methanococcus jannaschii 2190 -11541193 5000698415 (de:(mj0825) (pn:rotamase, peptidyl-prolyl cis-trans isomerase) (gtcfc:12.7) (ec:5.2.1.8) (keggfc:11.1) (tigrfc:4.2) (db:gtc-methanococcus jannaschii)) MJ0825 MJ0825 Methanococcus jannaschii 2190 10064070

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932876	20806	42962	501	166

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932890	20807	42963	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932895	20808	42964	324	107

Description

5000698416 thermosome:ths:probable thermosome subunit (gtcfc:12.7) (keggfc:14.2) (tigrfc:4.3) (db:gtc-methanococcus jannaschii) MJ0999 MJ0999 Methanococcus jannaschii 2190 -11541194 121580 ths:mj0999 (de:thermosome subunit) (db:swissprot) THS_METJA Q58405 METHANOCOCCUS JANNASCHII 2190 -11541194 173011 chaperonin (cl:molecular chaperone t-complex-type) (db:pir2.dat) (mp:rev928517-926889) F64424 F64424 Methanococcus jannaschii 2190 -11541194 247432 mj0999 thermosome ths (db:genpept-bct1) (de:methanococcus jannaschii section 84 of 150 of the complete genome.) (nt:similar to gb:d29672 pid:473965 sp:q52500 percent) (le:5423) (re:7051) (di:complement) U67542 U67542 g1591659 Methanococcus jannaschii 2190 -11541194 6500737336 thermosome:ths:probable thermosome subunit (gtcfc:12.7) (keggfc:14.2) (tigrfc:4.3) (db:gtc-methanococcus jannaschii) MJ0999 MJ0999 Methanococcus jannaschii 2190 -11541194

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932899	20809	42965	984	327

Description

5000698418 cbf5:centromere/microtubule-binding protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0148 MJ0148 Methanococcus jannaschii 2190 -11541195 7502853923 trub:mj0148 (ec:4.2.1.70) (de:(uracil hydrolyase)) (db:swissprot) TRUB_METJA Q57612 METHANOCOCCUS JANNASCHII 2190 -11541195 173010 centromere/microtubule-binding protein homolog (cl:escherichia coli protein p35) (db:pir2.dat) (mp:rev145830-144820) E64318 E64318 Methanococcus jannaschii 2190 -11541195 246583 mj0148 centromere/microtubule-binding protein cbf5 (db:genpept-bct1) (de:methanococcus jannaschii section 14 of 150 of the complete genome.) (nt:similar to sp:p33322 pid:311097 pid:577203 percent) (le:1292) (re:2302) (di:complement) U67472 U67472 g1590909 Methanococcus jannaschii 2190 -11541195 6500737337 cbf5:centromere/microtubule-binding protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0148 MJ0148 Methanococcus jannaschii 2190 -11541195

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932901	20810	42966	315	104

Description

5000698419 cell division inhibitor mind:hypothetical atp-binding protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0169 MJ0169 Methanococcus jannaschii 2190 -11541196 118823 mj0169 (de:hypothetical atp-binding protein mj0169) (db:swissprot) Y169_METJA Q57633 METHANOCOCCUS JANNASCHII 2190 -11541196 131333 cell division inhibitor mind homolog mj0169:septum placement determinant mind homolog mj0169 (cl:cell division inhibitor mind) (db:pir1.dat) (mp:for171244-172035) B64321 B64321 Methanococcus jannaschii 2190 -11541196 246604 mj0169 cell division inhibitor mind (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to gp:1001783 percent identity: 30.86;) (le:521) (re:1312) (di:direct) U67474 U67474 g1590922 Methanococcus jannaschii 2190 -11541196 6500737338 cell division inhibitor mind:hypothetical atp-binding protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0169 MJ0169 Methanococcus jannaschii 2190 -11541196

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932919	20811	42967	1065	354

Description

5000698420 cell division protein pelota:pela:cell division protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0174 MJ0174 Methanococcus jannaschii 2190 -11541197 118825 mj0174 (de:hypothetical protein mj0174) (db:swissprot) Y174_METJA Q57638 METHANOCOCCUS JANNASCHII 2190 -11541197 173007 cell division protein mj0174 (cl:cell division protein mj0174) (db:pir2.dat) (mp:for176345-177388) G64321 G64321 Methanococcus jannaschii 2190 -11541197 246609 mj0174 cell division protein pelota pela (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to gp:1707811 percent identity: 36.05;) (le:5622) (re:6665) (di:direct) U67474 U67474 g1590926 Methanococcus jannaschii 2190 -11541197 6500737339 cell division protein pelota:pela:cell division protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0174 MJ0174 Methanococcus jannaschii 2190 -11541197

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932931	20812	42968	3396	1131

Description

5000698421 cell division control protein 21:cdc21:hypothetical mcm-type protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0363 MJ0363 Methanococcus jannaschii 2190 -11541198 4000708862 mj0363 (de:hypothetical mcm-type protein mj0363) (db:swissprot) Y363_METJA Q57809 METHANOCOCCUS JANNASCHII 2190 -11541198 173004 cell division control protein 21 homolog (db:pir2.dat) (mp:for329865-332144) C64345 C64345 Methanococcus jannaschii 2190 -11541198 246797 mj0363 cell division control protein 21 cdc21 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:similar to sp:p29458 percent identity: 29.92;) (le:5557) (re:7836) (di:direct) U67489 U67489 g1591071 Methanococcus jannaschii 2190 -11541198 6500737340 cell division control protein 21:cdc21:hypothetical mcm-type protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0363 MJ0363 Methanococcus jannaschii 2190 -11541198

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932935	20813	42969	732	243

Description

6500737341 ftsz:mj0370 cell division protein ftsz:cell division protein ftsz homolog (gtcfc:12.8) (ec:3.4.24.-) (keggfc:14.1) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0370 MJ0370 Methanococcus jannaschii 2190 -11541199 1500686101 ftsz1:mj0370 (de:cell division protein ftsz homolog 1) (db:swissprot) FTZ1_METJA Q57816 METHANOCOCCUS JANNASCHII 2190 -11541199 131347 cell division protein ftsz homolog mj0370 (cl:cell division protein ftsz) (db:pir1.dat) (mp:for336314-337408) B64346 B64346 Methanococcus jannaschii 2190 -11541199 246804 mj0370 cell division protein ftsz (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to gb:z31371 percent identity: 48.16;) (le:1913) (re:3007) (di:direct) U67490 U67490 g1591077 Methanococcus jannaschii 2190 -11541199 5000698422 (de:(mj0370) (pn:cell division protein ftsz) (gtcfc:12.8) (ec:) (keggfc:11.2) (tigrfc:4.1) (db:gtc-methanococcus jannaschii)) MJ0370 MJ0370 Methanococcus jannaschii 2190 10060379

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932954	20814	42970	3555	1184

Description

5000698423 cell division inhibitor mind:hypothetical atp-binding protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0547 MJ0547 Methanococcus jannaschii 2190 -11541200 118843 mj0547 (de:hypothetical atp-binding protein mj0547) (db:swissprot) Y547_METJA Q57967 METHANOCOCCUS JANNASCHII 2190 -11541200 131334 cell division inhibitor mind homolog mj0547:septum placement determinant mind homolog mj0547 (cl:cell division inhibitor mind) (db:pir1.dat) (mp:rev484422-483628) C64368 C64368 Methanococcus jannaschii 2190 -11541200 246981 mj0547 cell division inhibitor mind (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:similar to gb:m95582 sp:q01464 gb:m96343 pid:142859) (le:1803) (re:2597) (di:complement) U67504 U67504 g1591252 Methanococcus jannaschii 2190 -11541200 6500737342 cell division inhibitor mind:hypothetical atp-binding protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0547 MJ0547 Methanococcus jannaschii 2190 -11541200

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932956	20815	42971	3966	1321

Description

5000698424 cell division inhibitor mind-like:hypothetical protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0579 MJ0579 Methanococcus jannaschii 2190 -11541201 4000708354 mj0579 (de:hypothetical protein mj0579) (db:swissprot) Y579_METJA Q57999 METHANOCOCCUS JANNASCHII 2190 -11541201 173006 cell division inhibitor homolog (db:pir2.dat) (mp:rev515081-514272) C64372 C64372 Methanococcus jannaschii 2190 -11541201 247013 mj0579 cell division inhibitor mind-like (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to gb:m95582 sp:q01464 gb:m96343 pid:142859) (le:9501) (re:10310) (di:complement) U67506 U67506 g1591286 Methanococcus jannaschii 2190 -11541201 6500737343 cell division inhibitor mind-like:hypothetical protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0579 MJ0579 Methanococcus jannaschii 2190 -11541201

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932958	20816	42972	405	134

Description

5000698425 cell division protein ftsz:cell division protein ftsz homolog 2 (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0622 MJ0622 Methanococcus jannaschii 2190 -11541202 4000707963 ftsz2:mj0622 (de:cell division protein ftsz homolog 2) (db:swissprot) FTZ2_METJA Q58039 METHANOCOCCUS JANNASCHII 2190 -11541202 173008 cell division protein ftsz homolog mj0622 (cl:cell division protein ftsz) (db:pir2.dat) (mp:rev552403-551192) F64377 F64377 Methanococcus jannaschii 2190 -11541202 247056 mj0622 cell division protein ftsz (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to pid:1017833 sp:q48327 percent identity:) (le:5643) (re:6854) (di:complement) U67510 U67510 g1591333 Methanococcus jannaschii 2190 -11541202 6500737344 cell division protein ftsz:cell division protein ftsz homolog 2 (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0622 MJ0622 Methanococcus jannaschii 2190 -11541202

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932959	20817	42973	441	146

Description

5000698426 cell division control protein 23:cdc23:m (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0798 MJ0798 Methanococcus jannaschii 2190 -11541203 5500686405 mj0798 (de:hypothetical protein mj0798) (db:swissprot) Y798_METJA Q58208 METHANOCOCCUS JANNASCHII 2190 -11541203 173724 hypothetical protein mj0798 (cl:tetratricopeptide repeat homology) (db:pir2.dat) (mp:for721781-722785) F64399 F64399 Methanococcus jannaschii 2190 -11541203 247232 mj0798 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 30.77;) (le:5988) (re:6992) (di:direct) U67524 U67524 g1499620 Methanococcus jannaschii 2190 -11541203 6500737345 cell division control protein 23:cdc23:m (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0798 MJ0798 Methanococcus jannaschii 2190 -11541203

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932960	20818	42974	1527	508

Description

5000698289 cell division control protein 54:cdc54:hypothetical mcm-type protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0961 MJ0961 Methanococcus jannaschii 2190 -11541204 4000708863 mj0961 (de:hypothetical mcm-type protein mj0961) (db:swissprot) Y961_METJA Q58371 METHANOCOCCUS JANNASCHII 2190 -11541204 173065 dna replication initiator protein (db:pir2.dat) (mp:for892654-894942) A64420 A64420 Methanococcus jannaschii 2190 -11541204 247395 mj0961 cell division control protein 54 cdc54 (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to sp:p30665 pid:1314093 pid:3482) (le:8860) (re:11148) (di:direct) U67539 U67539 g1591625 Methanococcus jannaschii 2190 -11541204 6500737346 cell division control protein 54:cdc54:hypothetical mcm-type protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ0961 MJ0961 Methanococcus jannaschii 2190 -11541204

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932973	20819	42975	393	130

Description

5000698427 cell division control protein 48:cdc48:aaa family:cell division cycle protein 48 homolog (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1156 MJ1156 Methanococcus jannaschii 2190 -11541205 1500685754 mj1156 (de:cell division cycle protein 48 homolog mj1156) (db:swissprot) YB56_METJA Q58556 METHANOCOCCUS JANNASCHII 2190 -11541205 173005 cell division control protein cdc48 homolog (cl:transitional endoplasmic reticulum atpase:ftsh/sec18/cdc48-type atp-binding domain homology) (db:pir2.dat) (mp:rev1097124-1094413) C64444 C64444 Methanococcus jannaschii 2190 -11541205 247589 mj1156 cell division control protein 48 cdc48:aaa (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:similar to gb:x79560 sp:p46464 pid:517390 percent) (le:9691) (re:12402) (di:complement) U67557 U67557 g1591785 Methanococcus jannaschii 2190 -11541205 6500737347 cell division control protein 48:cdc48:aaa family:cell division cycle protein 48 homolog (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1156 MJ1156 Methanococcus jannaschii 2190 -11541205

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501932975	20820	42976	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933002	20821	42977	912	303

Description

5000699452 cell division control protein 27:cdc27:m (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1345 MJ1345 Methanococcus jannaschii 2190 -11541206 5500686509 mj1345 (de:hypothetical protein mj1345) (db:swissprot) YD45_METJA Q58741 METHANOCOCCUS JANNASCHII 2190 -11541206 174017 hypothetical protein mj1345 (cl:tetratricopeptide repeat homology) (db:pir2.dat) (mp:for1291902-1292846) H64467 H64467 Methanococcus jannaschii 2190 -11541206 247778 mj1345 o-linked glnnac transferase (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 37.88;) (le:6521) (re:7465) (di:direct) U67574 U67574 g1591987 Methanococcus jannaschii 2190 -11541206 6500737348 cell division control protein 27:cdc27:m (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1345 MJ1345 Methanococcus jannaschii 2190 -11541206

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933006	20822	42978	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933016	20823	42979	333	110

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933046	20824	42980	288	95

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933085	20825	42981	300	99

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933095	20826	42982	1542	513

Description

5000698428 cell division protein ftsj:cell division protein j (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1376 MJ1376 Methanococcus jannaschii 2190 -11541207 7500881833 mj1376 (de:cell division protein ftsj homolog) (db:swissprot) FTSJ_METJA Q58771 METHANOCOCCUS JANNASCHII 2190 -11541207 173009 cell division protein j (cl:cell division protein j) (db:pir2.dat) (mp:for1324286-1325023) G64471 G64471 Methanococcus jannaschii 2190 -11541207 7500881835 mj1376 cell division protein ftsj (db:genpept-bct1) (de:methanococcus jannaschii section 119 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45162 pid:1007333) (le:5807) (re:6544) (di:direct) U67577 U67577 g1592021 Methanococcus jannaschii 2190 -11541207 6500737349 cell division protein ftsj:cell division protein j (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1376 MJ1376 Methanococcus jannaschii 2190 -11541207 247809 mju67577 (le:1324286) (re:1325023) (di:direct) (de:or:methanococcus jannaschii pn:cell division protein j gn:mj1376 le:5807 re:6544 di:direct nt:similar to p45162 percent identity: 40.1;) U67577 U67577 g1592021 Methanococcus jannaschii 2190 -11541207

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933100	20827	42983	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933101	20828	42984	834	277

Description

GTC ORF with score 870 to: (db:genpept-pln1) (de:gdh=nad(+)-specific glutamate dehydrogenase (neurospora crassa,genomic, 4919 nt).) (nt:this sequence comes from fig. 2; nad-gdh) (le:1105:1358:2354:4322) (re:1303:2354:4264:4358) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933110	20829	42985	306	101

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933111	20830	42986	237	78

Description

5000698429 cell division control protein 47:cdc47:hypothetical mcm-type protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1489 MJ1489 Methanococcus jannaschii 2190 -11541208 4000708864 mj1489 (de:hypothetical mcm-type protein mj1489) (db:swissprot) YE89_METJA Q58884 METHANOCOCCUS JANNASCHII 2190 -11541208 173003 cell division control protein (db:pir2.dat) (mp:for1461597-1463645) H64485 H64485 Methanococcus jannaschii 2190 -11541208 247922 mj1489 cell division control protein 47 cdc47 (db:genpept-bct1) (de:methanococcus jannaschii section 132 of 150 of the complete genome.) (nt:similar to sp:p38132 percent identity: 35.23;) (le:75) (re:2123) (di:direct) U67590 U67590 g1592127 Methanococcus jannaschii 2190 -11541208 6500737350 cell division control protein 47:cdc47:hypothetical mcm-type protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1489 MJ1489 Methanococcus jannaschii 2190 -11541208

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933113	20831	42987	1329	442

Description

5000698174 aaa superfamily atpase:similar to ftsh:putative 26s protease regulatory subunit homolog (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1494 MJ1494 Methanococcus jannaschii 2190 -11541209 172980 atp-dependent 26s proteosome regulatory subunit 8 homolog (cl:ftsh/sec18/cdc48-type atp-binding domain homology) (db:pir2.dat) (mp:rev1468358-1467237) E64486 E64486 Methanococcus jannaschii 2190 -11541209 1500685768 mj1494 (de:putative 26s protease regulatory subunit homolog mj1494) (db:swissprot) PRS2_METJA Q58889 METHANOCOCCUS JANNASCHII 2190 -11541209 6500737351 aaa superfamily atpase:similar to ftsh:putative 26s protease regulatory subunit homolog (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1494 MJ1494 Methanococcus jannaschii 2190 -11541209 247927 mju67590 (le:1467237) (re:1468358) (di:direct) (de:or:methanococcus jannaschii pn:atp-dependent 26s protease regulatory subunit 8 gn:mj1494 le:5715 re:6836 di:complement nt:similar to p42811 percent identity: 53.8;) U67590 U67590 g1592130 Methanococcus jannaschii 2190 -11541209

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933114	20832	42988	1404	467

Description

5000698430 chromosome segretation protein:smc1:p115 protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1643 MJ1643 Methanococcus jannaschii 2190 -11541210 174396 p115 homolog (cl:conserved hypothetical p115 protein) (db:pir2.dat) (mp:for1623481-1626990) A64505 A64505 Methanococcus jannaschii 2190 -11541210 6500737352 chromosome segretation protein:smc1:p115 protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1643 MJ1643 Methanococcus jannaschii 2190 -11541210 248075 mju67604 (le:1623481) (re:1626990) (di:direct) (de:or:methanococcus jannaschii pn:p115 protein gn:mj1643 le:8551 re:12060 di:direct nt:similar to p41508 percent identity: 30.2;) U67604 U67604 g1500543 Methanococcus jannaschii 2190 -11541210

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933115	20833	42989	1131	376

Description

5000698431 dna binding protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1647 MJ1647 Methanococcus jannaschii 2190 -11541211 173059 dna binding protein (db:pir2.dat) (mp:for1629144-1629434) E64505 E64505 Methanococcus jannaschii 2190 -11541211 248079 mj1647 dna binding protein (db:genpept-bct1) (de:methanococcus jannaschii section 147 of 150 of the complete genome.) (nt:similar to sp:q03576 gb:x69792 pid:44722 percent) (le:2105) (re:2395) (di:direct) U67605 U67605 g1592230 Methanococcus jannaschii 2190 -11541211 6500737353 dna binding protein (gtcfc:12.8) (keggfc:14.2) (tigrfc:4.2) (db:gtc-methanococcus jannaschii) MJ1647 MJ1647 Methanococcus jannaschii 2190 -11541211

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933116	20834	42990	255	84

Description

5000698433 hydantoin utilization protein b:hyub:n-methylhydantoinase (gtcfc:13.10) (keggfc:14.2) (tigrfc:1.1) (db:gtc-methanococcus jannaschii) MJ0963 MJ0963 Methanococcus jannaschii 2190 -11541212 174358 n-methylhydantoinase atp-hydrolyzing (ec:3.5.2.14) (db:pir2.dat) (mp:rev897002-895311) C64420 C64420 Methanococcus jannaschii 2190 -11541212 247397 mj0963 hydantoin utilization protein b hyub (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to sp:q01263 pid:151283 pid:216832 percent) (le:11517) (re:13208) (di:complement) U67539 U67539 g1591627 Methanococcus jannaschii 2190 -11541212 6500737354 hydantoin utilization protein b:hyub:n-methylhydantoinase (gtcfc:13.10) (keggfc:14.2) (tigrfc:1.1) (db:gtc-methanococcus jannaschii) MJ0963 MJ0963 Methanococcus jannaschii 2190 -11541212

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933124	20835	42991	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933134	20836	42992	519	172

Description

5000698434 hydantoin utilization protein a:hyua:n-methylhydantoinase (gtcfc:13.10) (keggfc:14.2) (tigrfc:1.1) (db:gtc-methanococcus jannaschii) MJ0964 MJ0964 Methanococcus jannaschii 2190 -11541213 174359 n-methylhydantoinase atp-hydrolyzing (ec:3.5.2.14) (db:pir2.dat) (mp:rev899057-897015) D64420 D64420 Methanococcus jannaschii 2190 -11541213 247398 mj0964 hydantoin utilization protein a hyua (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to sp:q01262 pid:151282 pid:216831 percent) (le:13221) (re:15263) (di:complement) U67539 U67539 g1591628 Methanococcus jannaschii 2190 -11541213 6500737355 hydantoin utilization protein a:hyua:n-methylhydantoinase (gtcfc:13.10) (keggfc:14.2) (tigrfc:1.1) (db:gtc-methanococcus jannaschii) MJ0964 MJ0964 Methanococcus jannaschii 2190 -11541213

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933138	20837	42993	732	243

Description

5000698432 exopolyphosphatase:ppx1:hypothetical protein (gtcfc:13.10) (keggfc:14.2) (tigrfc:5.4) (db:gtc-methanococcus jannaschii) MJ0608 MJ0608 Methanococcus jannaschii 2190 -11541214 4000708369 mj0608 (de:hypothetical protein mj0608) (db:swissprot) Y608_METJA Q58025 METHANOCOCCUS JANNASCHII 2190 -11541214 173234 hypothetical protein homolog mj0608 (cl:conserved hypothetical protein mj0608) (db:pir2.dat) (mp:rev537533-536610) H64375 H64375 Methanococcus jannaschii 2190 -11541214 247042 mj0608 exopolyphosphatase ppx1 (db:genpept-bct1) (de:methanococcus jannaschii section 51 of 150 of the complete genome.) (nt:similar to sp:p38698 pid:453695 pid:458943 percent) (le:752) (re:1675) (di:complement) U67509 U67509 g1591318 Methanococcus jannaschii 2190 -11541214 6500737356 exopolyphosphatase:ppx1:hypothetical protein (gtcfc:13.10) (keggfc:14.2) (tigrfc:5.4) (db:gtc-methanococcus jannaschii) MJ0608 MJ0608 Methanococcus jannaschii 2190 -11541214

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933152	20838	42994	678	225

Description

GTC ORF with score 641 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome i cosmid c9g1.) (nt:spac9g1.05, len:595aa, similarity: to wd42_dicdi,) (le:9769:9935:10129:10271) (re:9873:10058:10230:10316) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933174	20839	42995	309	102

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933179	20840	42996	993	330

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933210	20841	42997	471	156

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933211	20842	42998	255	84

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933213	20843	42999	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933222	20844	43000	834	277

Description

5000698437 transformation sensitive protein (gtcfc:13.12) (keggfc:14.2) (tigrfc:4.7) (db:gtc-methanococcus jannaschii) MJ0940 MJ0940 Methanococcus jannaschii 2190 -11541215 5500686450 mj0940 (de:hypothetical protein mj0940) (db:swissprot) Y940_METJA Q58350 METHANOCOCCUS JANNASCHII 2190 -11541215 174578 transformation sensitive protein homolog (cl:transformation sensitive protein:tetratricopeptide repeat homology) (db:pir2.dat) (mp:for869481-870437) D64417 D64417 Methanococcus jannaschii 2190 -11541215 247374 mj0940 transformation sensitive protein (db:genpept-bct1) (de:methanococcus jannaschii section 79 of 150 of the complete genome.) (nt:similar to gb:m86752 sp:p31948 pid:184565 percent) (le:6068) (re:7024) (di:direct) U67537 U67537 g1591608 Methanococcus jannaschii 2190 -11541215 6500737357 transformation sensitive protein (gtcfc:13.12) (keggfc:14.2) (tigrfc:4.7) (db:gtc-methanococcus jannaschii) MJ0940 MJ0940 Methanococcus jannaschii 2190 -11541215

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933225	20845	43001	903	300

Description

5000698454 ethylene-inducible protein:hypothetical protein (gtcfc:13.2) (keggfc:14.2) (tigrfc:14.2) (db:gtc-methanococcus jannaschii) MJ0677 MJ0677 Methanococcus jannaschii 2190 -11541216 121802 mj0677 (de:hypothetical protein mj0677) (db:swissprot) Y677_METJA Q58090 METHANOCOCCUS JANNASCHII 2190 -11541216 173090 ethylene-inducible protein homolog (db:pir2.dat) (mp:rev604192-603200) E64384 E64384 Methanococcus jannaschii 2190 -11541216 247111 mj0677 ethylene-inducible protein (db:genpept-bct1) (de:methanococcus jannaschii section 57 of 150 of the complete genome.) (nt:similar to gp:1209317 percent identity: 66.90;) (le:1220) (re:2212) (di:complement) U67515 U67515 g1591392 Methanococcus jannaschii 2190 -11541216 6500737358 ethylene-inducible protein:hypothetical protein (gtcfc:13.2) (keggfc:14.2) (tigrfc:14.2) (db:gtc-methanococcus jannaschii) MJ0677 MJ0677 Methanococcus jannaschii 2190 -11541216

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933227	20846	43002	2031	676

Description

5000698439 yeast kti12 protein:k (gtcfc:13.3) (keggfc:14.2) (tigrfc:14.3) (db:gtc-methanococcus jannaschii) MJ1538 MJ1538 Methanococcus jannaschii 2190 -11541217 174569 toxin sensitivity protein kti12 homolog (db:pir2.dat) (mp:for1515893-1516651) A64492 A64492 Methanococcus jannaschii 2190 -11541217 247971 mj1538 yeast kti12 protein (db:genpept-bct1) (de:methanococcus jannaschii section 136 of 150 of the complete genome.) (nt:similar to sp:p34253 pid:1680182 pid:431206) (le:8900) (re:9658) (di:direct) U67594 U67594 g1592169 Methanococcus jannaschii 2190 -11541217 6500737359 yeast kti12 protein:k (gtcfc:13.3) (keggfc:14.2) (tigrfc:14.3) (db:gtc-methanococcus jannaschii) MJ1538 MJ1538 Methanococcus jannaschii 2190 -11541217

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933242	20847	43003	249	82

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933251	20848	43004	399	132

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933252	20849	43005	870	289

Description

5000698440 transposase:similar to is240:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0017 MJ0017 Methanococcus jannaschii 2190 -11541218 118728 mj0017 (de:hypothetical protein mj0017) (db:swissprot) Y017_METJA Q60323 METHANOCOCCUS JANNASCHII 2190 -11541218 174589 transposase (db:pir2.dat) (mp:for16806-17450) A64302 A64302 Methanococcus jannaschii 2190 -11541218 246451 mj0017 transposase:similar to is240 (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:similar to pid:143114 percent identity: 29.44;) (le:6791) (re:7435) (di:direct) U67460 U67460 g1498775 Methanococcus jannaschii 2190 -11541218 6500737360 transposase:similar to is240:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0017 MJ0017 Methanococcus jannaschii 2190 -11541218

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933258	20850	43006	843	280

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933280	20851	43007	5037	1678

Description

5000698529 tandem protein b2:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0125 MJ0125 Methanococcus jannaschii 2190 -11541219 118797 mj0125 (de:hypothetical protein mj0125) (db:swissprot) Y125_METJA Q57589 METHANOCOCCUS JANNASCHII 2190 -11541219 173351 hypothetical protein mj0125 (db:pir2.dat) (mp:rev123378-123028) E64315 E64315 Methanococcus jannaschii 2190 -11541219 246559 mj0125 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to pid:1652090 percent identity: 31.43;) (le:11397) (re:11747) (di:complement) U67469 U67469 g1498892 Methanococcus jannaschii 2190 -11541219 6500737361 tandem protein b2:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0125 MJ0125 Methanococcus jannaschii 2190 -11541219

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933286	20852	43008	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933306	20853	43009	555	184

Description

5000698530 tandem protein a2:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0126 MJ0126 Methanococcus jannaschii 2190 -11541220 173352 hypothetical protein mj0126 (cl:conserved hypothetical protein mj0128) (db:pir2.dat) (mp:rev123697-123389) F64315 F64315 Methanococcus jannaschii 2190 -11541220 118798 mj0126 (de:hypothetical protein mj0126) (db:swissprot) Y126_METJA Q57590 METHANOCOCCUS JANNASCHII 2190 -11541220 6500737362 tandem protein a2:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0126 MJ0126 Methanococcus jannaschii 2190 -11541220 246560 mju67469 (le:123389) (re:123697) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0126 gn:mj0126 le:11759 re:12067 di:complement nt:identified by genemark; putative) U67469 U67469 g1592265 Methanococcus jannaschii 2190 -11541220

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933319	20854	43010	2505	834

Description

5000698531 tandem protein b3:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0127 MJ0127 Methanococcus jannaschii 2190 -11541221 118799 mj0127 (de:hypothetical protein mj0127) (db:swissprot) Y127_METJA Q57591 METHANOCOCCUS JANNASCHII 2190 -11541221 173353 hypothetical protein mj0127 (db:pir2.dat) (mp:rev124034-123669) G64315 G64315 Methanococcus jannaschii 2190 -11541221 246561 mj0127 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to pid:1652090 percent identity: 32.61;) (le:12038) (re:12403) (di:complement) U67469 U67469 g1498894 Methanococcus jannaschii 2190 -11541221 6500737363 tandem protein b3:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0127 MJ0127 Methanococcus jannaschii 2190 -11541221

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933323	20855	43011	798	265

Description

5000698532 tandem protein a3:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0128 MJ0128 Methanococcus jannaschii 2190 -11541222 118800 mj0128 (de:hypothetical protein mj0128) (db:swissprot) Y128_METJA Q57592 METHANOCOCCUS JANNASCHII 2190 -11541222 173354 hypothetical protein mj0128 (cl:conserved hypothetical protein mj0128) (db:pir2.dat) (mp:rev124341-124045) H64315 H64315 Methanococcus jannaschii 2190 -11541222 246562 mj0128 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to pid:1653122 percent identity: 36.17;) (le:12414) (re:12710) (di:complement) U67469 U67469 g1498895 Methanococcus jannaschii 2190 -11541222 6500737364 tandem protein a3:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0128 MJ0128 Methanococcus jannaschii 2190 -11541222

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933326	20856	43012	360	119

Description

GTC ORF with score 167 to: (sr:saccharomyces cerevisiae (strain s288c) dna) (db:genpept-pln1) (de:saccharomyces cerevisiae trna-met, trna-ser, trna-gly genes and 24orfs.) (nt:orf; putative) (le:<25363) (re:25782) (di:complement)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933341	20857	43013	444	147

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933346	20858	43014	3285	1094

Description

5000698539 tandem protein a8:mj0604:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0141 MJ0141 Methanococcus jannaschii 2190 -11541223 118812 mj0141 (de:hypothetical protein mj0141) (db:swissprot) Y141_METJA Q57606 METHANOCOCCUS JANNASCHII 2190 -11541223 173363 hypothetical protein mj0141 (db:pir2.dat) (mp:for139529-139828) F64317 F64317 Methanococcus jannaschii 2190 -11541223 246576 mj0141 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 13 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 36.84;) (le:5533) (re:5832) (di:direct) U67471 U67471 g1498910 Methanococcus jannaschii 2190 -11541223 6500737365 tandem protein a8:mj0604:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0141 MJ0141 Methanococcus jannaschii 2190 -11541223

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933349	20859	43015	345	114

Description

5000698540 tandem protein c8:mj0605:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0142 MJ0142 Methanococcus jannaschii 2190 -11541224 173364 hypothetical protein mj0142 (db:pir2.dat) (mp:for139794-140240) G64317 G64317 Methanococcus jannaschii 2190 -11541224 118813 mj0142 (de:hypothetical protein mj0142) (db:swissprot) Y142_METJA Q57607 METHANOCOCCUS JANNASCHII 2190 -11541224 6500737366 tandem protein c8:mj0605:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0142 MJ0142 Methanococcus jannaschii 2190 -11541224 246577 mju67471 (le:139794) (re:140240) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0142 gn:mj0142 le:5798 re:6244 di:direct nt:identified by genemark; putative) U67471 U67471 g1590904 Methanococcus jannaschii 2190 -11541224

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933372	20860	43016	1023	340

Description

5000698441 integrase/recombinase:probable integrase/recombinase protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0367 MJ0367 Methanococcus jannaschii 2190 -11541225 4000708749 mj0367 (de:probable integrase/recombinase protein mj0367) (db:swissprot) Y367_METJA Q57813 METHANOCOCCUS JANNASCHII 2190 -11541225 174295 integrase homolog (db:pir2.dat) (mp:for333292-334284) G64345 G64345 Methanococcus jannaschii 2190 -11541225 246801 mj0367 integrase/recombinase (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:similar to pid:557887 percent identity: 30.80;) (le:8984) (re:9976) (di:direct) U67489 U67489 g1591073 Methanococcus jannaschii 2190 -11541225 6500737367 integrase/recombinase:probable integrase/recombinase protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0367 MJ0367 Methanococcus jannaschii 2190 -11541225

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933381	20861	43017	639	212

Description

5000698713 tandem protein b5:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0434 MJ0434 Methanococcus jannaschii 2190 -11541226 118839 mj0434 (de:hypothetical protein mj0434) (db:swissprot) Y434_METJA Q57876 METHANOCOCCUS JANNASCHII 2190 -11541226 173534 hypothetical protein mj0434 (db:pir2.dat) (mp:rev389342-388674) B64354 B64354 Methanococcus jannaschii 2190 -11541226 246868 mj0434 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to pid:1652090 percent identity: 30.69;) (le:1652) (re:2320) (di:complement) U67495 U67495 g1591138 Methanococcus jannaschii 2190 -11541226 6500737368 tandem protein b5:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0434 MJ0434 Methanococcus jannaschii 2190 -11541226

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933402	20862	43018	1182	393

Description

5000698714 tandem protein a5:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0435 MJ0435 Methanococcus jannaschii 2190 -11541227 173535 hypothetical protein mj0435 (cl:conserved hypothetical protein mj0128) (db:pir2.dat) (mp:rev389629-389339) C64354 C64354 Methanococcus jannaschii 2190 -11541227 118840 mj0435 (de:hypothetical protein mj0435) (db:swissprot) Y435_METJA Q57877 METHANOCOCCUS JANNASCHII 2190 -11541227 6500737369 tandem protein a5:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0435 MJ0435 Methanococcus jannaschii 2190 -11541227 246869 mju67495 (le:389339) (re:389629) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0435 gn:mj0435 le:2317 re:2607 di:complement nt:identified by genemark; putative) U67495 U67495 g1591139 Methanococcus jannaschii 2190 -11541227

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933403	20863	43019	579	192

Description

5000698806 tandem protein a7:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0604 MJ0604 Methanococcus jannaschii 2190 -11541228 118846 mj0604 (de:hypothetical protein mj0604) (db:swissprot) Y604_METJA Q58021 METHANOCOCCUS JANNASCHII 2190 -11541228 173616 hypothetical protein mj0604 (db:pir2.dat) (mp:rev535445-535143) D64375 D64375 Methanococcus jannaschii 2190 -11541228 247038 mj0604 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to pid:1652091 percent identity: 30.12;) (le:9596) (re:9898) (di:complement) U67508 U67508 g1591313 Methanococcus jannaschii 2190 -11541228 6500737370 tandem protein a7:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0604 MJ0604 Methanococcus jannaschii 2190 -11541228

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933405	20864	43020	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933406	20865	43021	549	182

Description

GTC ORF with score 245 to: (sr:p.cepacia dna) (db:genpept-bct1) (de:p.cepacia 2,2-dialkylglycine decarboxylase structural (dgda) andrepressor (dgdr) genes, complete cds.) (nt:insect-type dehydrogenase) (le:2773) (re:3522) (di:complement)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933420	20866	43022	537	178

Description

5000698807 tandem protein c7:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0605 MJ0605 Methanococcus jannaschii 2190 -11541229 118847 mj0605 (de:hypothetical protein mj0605) (db:swissprot) Y605_METJA Q58022 METHANOCOCCUS JANNASCHII 2190 -11541229 173617 hypothetical protein mj0605 (db:pir2.dat) (mp:rev535846-535442) E64375 E64375 Methanococcus jannaschii 2190 -11541229 247039 mj0605 m. jannaschii predicted coding region mj0605 (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:brute force orf; identified by genemark; putative) (le:9895) (re:10299) (di:complement) U67508 U67508 g1591314 Methanococcus jannaschii 2190 -11541229 6500737371 tandem protein c7:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ0605 MJ0605 Methanococcus jannaschii 2190 -11541229

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933421	20867	43023	219	72

Description

5000699125 tandem protein a4a:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1215 MJ1215 Methanococcus jannaschii 2190 -11541230 118863 mj1215 (de:hypothetical protein mj1215) (db:swissprot) YC15_METJA Q58612 METHANOCOCCUS JANNASCHII 2190 -11541230 173942 hypothetical protein mj1215 (cl:conserved hypothetical protein mj0128) (db:pir2.dat) (mp:rev1159898-1159638) F64451 F64451 Methanococcus jannaschii 2190 -11541230 247648 mj1215 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to pid:1653122 percent identity: 33.33;) (le:13416) (re:13676) (di:complement) U67562 U67562 g1591844 Methanococcus jannaschii 2190 -11541230 6500737372 tandem protein a4a:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1215 MJ1215 Methanococcus jannaschii 2190 -11541230

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933430	20868	43024	456	151

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933450	20869	43025	1827	608

Description

5000699126 tandem protein b4:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1216 MJ1216 Methanococcus jannaschii 2190 -11541231 118864 mj1216 (de:hypothetical protein mj1216) (db:swissprot) YC16_METJA Q58613 METHANOCOCCUS JANNASCHII 2190 -11541231 173943 hypothetical protein mj1216 (db:pir2.dat) (mp:rev1160235-1159870) G64451 G64451 Methanococcus jannaschii 2190 -11541231 247649 mj1216 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to pid:1652090 percent identity: 30.48;) (le:13648) (re:14013) (di:complement) U67562 U67562 g1591845 Methanococcus jannaschii 2190 -11541231 6500737373 tandem protein b4:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1216 MJ1216 Methanococcus jannaschii 2190 -11541231

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933453	20870	43026	498	165

Description

5000699127 tandem protein a4:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1217 MJ1217 Methanococcus jannaschii 2190 -11541232 118865 mj1217 (de:hypothetical protein mj1217) (db:swissprot) YC17_METJA Q58614 METHANOCOCCUS JANNASCHII 2190 -11541232 173944 hypothetical protein mj1217 (cl:conserved hypothetical protein mj0128) (db:pir2.dat) (mp:rev1160542-1160246) H64451 H64451 Methanococcus jannaschii 2190 -11541232 247650 mj1217 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to pid:1653122 percent identity: 33.70;) (le:14024) (re:14320) (di:complement) U67562 U67562 g1591846 Methanococcus jannaschii 2190 -11541232 6500737374 tandem protein a4:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1217 MJ1217 Methanococcus jannaschii 2190 -11541232

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933455	20871	43027	408	135

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933459	20872	43028	423	140

Description

5000699173 tandem protein c9:mj0605:m (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1304 MJ1304 Methanococcus jannaschii 2190 -11541233 173988 hypothetical protein mj1304 (db:pir2.dat) (mp:rev1252619-1252161) G64462 G64462 Methanococcus jannaschii 2190 -11541233 247737 mj1304 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 41.82;) (le:3398) (re:3856) (di:complement) U67571 U67571 g1591943 Methanococcus jannaschii 2190 -11541233 6500737375 tandem protein c9:mj0605:m (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1304 MJ1304 Methanococcus jannaschii 2190 -11541233

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933462	20873	43029	453	150

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933481	20874	43030	861	286

Description

5000699174 tandem protein a9:mj0141:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1305 MJ1305 Methanococcus jannaschii 2190 -11541234 118870 mj1305 (de:hypothetical protein mj1305) (db:swissprot) YD05_METJA Q58701 METHANOCOCCUS JANNASCHII 2190 -11541234 173989 hypothetical protein mj1305 (db:pir2.dat) (mp:rev1253038-1252595) H64462 H64462 Methanococcus jannaschii 2190 -11541234 247738 mj1305 m. jannaschii predicted coding region mj1305 (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:brute force orf; identified by genemark; putative) (le:3832) (re:4275) (di:complement) U67571 U67571 g1591944 Methanococcus jannaschii 2190 -11541234 6500737376 tandem protein a9:mj0141:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1305 MJ1305 Methanococcus jannaschii 2190 -11541234

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933483	20875	43031	549	182

Description

5000699213 tandem protein a1:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1379 MJ1379 Methanococcus jannaschii 2190 -11541235 118872 mj1379 (de:hypothetical protein mj1379) (db:swissprot) YD79_METJA Q58774 METHANOCOCCUS JANNASCHII 2190 -11541235 174033 hypothetical protein mj1379 (cl:conserved hypothetical protein mj0128) (db:pir2.dat) (mp:for1328526-1328828) B64472 B64472 Methanococcus jannaschii 2190 -11541235 247812 mj1379 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to pid:1653122 percent identity: 38.95;) (le:124) (re:426) (di:direct) U67578 U67578 g1592331 Methanococcus jannaschii 2190 -11541235 6500737377 tandem protein a1:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1379 MJ1379 Methanococcus jannaschii 2190 -11541235

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933484	20876	43032	429	142

Description

5000699214 tandem protein b1:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1380 MJ1380 Methanococcus jannaschii 2190 -11541236 118873 mj1380 (de:hypothetical protein mj1380) (db:swissprot) YD80_METJA Q58775 METHANOCOCCUS JANNASCHII 2190 -11541236 174034 hypothetical protein mj1380 (db:pir2.dat) (mp:for1328821-1329057) C64472 C64472 Methanococcus jannaschii 2190 -11541236 247813 mj1380 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to pid:1652090 percent identity: 35.71;) (le:419) (re:655) (di:direct) U67578 U67578 g1592026 Methanococcus jannaschii 2190 -11541236 6500737378 tandem protein b1:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1380 MJ1380 Methanococcus jannaschii 2190 -11541236

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933489	20877	43033	768	255

Description

5000698442 transposase:similar to is240:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1466 MJ1466 Methanococcus jannaschii 2190 -11541237 118878 mj1466 (de:hypothetical protein mj1466) (db:swissprot) YE66_METJA Q58861 METHANOCOCCUS JANNASCHII 2190 -11541237 174090 hypothetical protein mj1466 (db:pir2.dat) (mp:rev1436399-1435755) A64483 A64483 Methanococcus jannaschii 2190 -11541237 247899 mj1466 transposase:similar to is240 (db:genpept-bct1) (de:methanococcus jannaschii section 129 of 150 of the complete genome.) (nt:similar to gb:m23740 gb:m23741 pid:143113 percent) (le:5286) (re:5930) (di:complement) U67587 U67587 g1592107 Methanococcus jannaschii 2190 -11541237 6500737379 transposase:similar to is240:hypothetical protein (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1466 MJ1466 Methanococcus jannaschii 2190 -11541237

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933493	20878	43034	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933497	20879	43035	1248	415

Description

5000699316 tandem protein a6:mj0604:m (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1547 MJ1547 Methanococcus jannaschii 2190 -11541238 174140 hypothetical protein mj1547 (cl:conserved hypothetical protein mj1547) (db:pir2.dat) (mp:for1525642-1526010) B64493 B64493 Methanococcus jannaschii 2190 -11541238 247980 mj1547 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 137 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 55.93;) (le:8983) (re:9351) (di:direct) U67595 U67595 g1592178 Methanococcus jannaschii 2190 -11541238 6500737380 tandem protein a6:mj0604:m (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1547 MJ1547 Methanococcus jannaschii 2190 -11541238

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933503	20880	43036	531	176

Description

5000699317 tandem protein b6:archaeoglobus fulgidus:m (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1548 MJ1548 Methanococcus jannaschii 2190 -11541239 174141 hypothetical protein mj1548 (cl:hypothetical protein mj1548) (db:pir2.dat) (mp:for1526064-1526432) C64493 C64493 Methanococcus jannaschii 2190 -11541239 247981 mj1548 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 137 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 57.45;) (le:9405) (re:9773) (di:direct) U67595 U67595 g1592179 Methanococcus jannaschii 2190 -11541239 6500737381 tandem protein b6:archaeoglobus fulgidus:m (gtcfc:13.5) (keggfc:14.2) (tigrfc:14.4) (db:gtc-methanococcus jannaschii) MJ1548 MJ1548 Methanococcus jannaschii 2190 -11541239

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933535	20881	43037	531	176

Description

5000698467 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0002 MJ0002 Methanococcus jannaschii 2190 -11541240 118715 mj0002 (de:hypothetical protein mj0002) (db:swissprot) Y002_METJA Q60312 METHANOCOCCUS JANNASCHII 2190 -11541240 173287 hypothetical protein mj0002 (db:pir2.dat) (mp:rev4071-3340) B64300 B64300 Methanococcus jannaschii 2190 -11541240 246436 mj0002 m. jannaschii predicted coding region mj0002 (db:genpept-bct1) (de:methanococcus jannaschii section 1 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3340) (re:4071) (di:complement) U67459 U67459 g1498759 Methanococcus jannaschii 2190 -11541240 6500737382 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0002 MJ0002 Methanococcus jannaschii 2190 -11541240

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933536	20882	43038	1491	496

Description

5000698468 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0003 MJ0003 Methanococcus jannaschii 2190 -11541241 118716 mj0003 (de:hypothetical protein mj0003) (db:swissprot) Y003_METJA Q60313 METHANOCOCCUS JANNASCHII 2190 -11541241 173288 hypothetical protein mj0003 (db:pir2.dat) (mp:for4911-5381) C64300 C64300 Methanococcus jannaschii 2190 -11541241 246437 mj0003 m. jannaschii predicted coding region mj0003 (db:genpept-bct1) (de:methanococcus jannaschii section 1 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4911) (re:5381) (di:direct) U67459 U67459 g1498760 Methanococcus jannaschii 2190 -11541241 6500737383 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0003 MJ0003 Methanococcus jannaschii 2190 -11541241

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933537	20883	43039	1422	473

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933538	20884	43040	291	96

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933539	20885	43041	528	175

Description

5000698469 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0008 MJ0008 Methanococcus jannaschii 2190 -11541242 118719 mj0008 (de:hypothetical protein mj0008) (db:swissprot) Y008_METJA Q60319 METHANOCOCCUS JANNASCHII 2190 -11541242 173289 hypothetical protein mj0008 (db:pir2.dat) (mp:for10075-10737) H64300 H64300 Methanococcus jannaschii 2190 -11541242 246442 mj0008 m. jannaschii predicted coding region mj0008 (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:60) (re:722) (di:direct) U67460 U67460 g1592254 Methanococcus jannaschii 2190 -11541242 6500737384 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0008 MJ0008 Methanococcus jannaschii 2190 -11541242

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933544	20886	43042	417	138

Description

5000698470 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0009 MJ0009 Methanococcus jannaschii 2190 -11541243 118720 mj0009 (de:hypothetical protein mj0009) (db:swissprot) Y009_METJA Q60320 METHANOCOCCUS JANNASCHII 2190 -11541243 173290 hypothetical protein mj0009 (db:pir2.dat) (mp:for10743-11573) A64301 A64301 Methanococcus jannaschii 2190 -11541243 246443 mj0009 m. jannaschii predicted coding region mj0009 (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:728) (re:1558) (di:direct) U67460 U67460 g1498767 Methanococcus jannaschii 2190 -11541243 6500737385 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0009 MJ0009 Methanococcus jannaschii 2190 -11541243

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933545	20887	43043	237	78

Description

5000698471 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0011 MJ0011 Methanococcus jannaschii 2190 -11541244 118722 mj0011 (de:hypothetical protein mj0011) (db:swissprot) Y011_METJA Q60327 METHANOCOCCUS JANNASCHII 2190 -11541244 173291 hypothetical protein mj0011 (db:pir2.dat) (mp:for12869-13462) C64301 C64301 Methanococcus jannaschii 2190 -11541244 246445 mj0011 m. jannaschii predicted coding region mj0011 (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2854) (re:3447) (di:direct) U67460 U67460 g1590822 Methanococcus jannaschii 2190 -11541244 6500737386 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0011 MJ0011 Methanococcus jannaschii 2190 -11541244

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933546	20888	43044	897	298

Description

5000698472 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0012 MJ0012 Methanococcus jannaschii 2190 -11541245 118723 mj0012 (de:hypothetical protein mj0012) (db:swissprot) Y012_METJA Q60328 METHANOCOCCUS JANNASCHII 2190 -11541245 173292 hypothetical protein mj0012 (db:pir2.dat) (mp:rev14050-13424) D64301 D64301 Methanococcus jannaschii 2190 -11541245 6500737387 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0012 MJ0012 Methanococcus jannaschii 2190 -11541245 246446 mju67460 (le:13424) (re:14050) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0012 gn:mj0012 le:3409 re:4035 di:complement nt:identified by genemark; putative) U67460 U67460 g1590823 Methanococcus jannaschii 2190 -11541245

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933556	20889	43045	390	129

Description

5000698473 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0013 MJ0013 Methanococcus jannaschii 2190 -11541246 118724 mj0013 (de:hypothetical protein mj0013) (db:swissprot) Y013_METJA Q60321 METHANOCOCCUS JANNASCHII 2190 -11541246 173293 hypothetical protein mj0013 (db:pir2.dat) (mp:rev14836-14348) E64301 E64301 Methanococcus jannaschii 2190 -11541246 246447 mj0013 m. jannaschii predicted coding region mj0013 (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4333) (re:4821) (di:complement) U67460 U67460 g1498771 Methanococcus jannaschii 2190 -11541246 6500737388 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0013 MJ0013 Methanococcus jannaschii 2190 -11541246

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933572	20890	43046	408	136

Description

5000698474 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0014 MJ0014 Methanococcus jannaschii 2190 -11541247 118725 mj0014 (de:hypothetical protein mj0014) (db:swissprot) Y014_METJA Q60329 METHANOCOCCUS JANNASCHII 2190 -11541247 173294 hypothetical protein mj0014 (db:pir2.dat) (mp:rev15458-14817) F64301 F64301 Methanococcus jannaschii 2190 -11541247 246448 mj0014 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:similar to sp:q10831 pid:1403406 pid:1403406) (le:4802) (re:5443) (di:complement) U67460 U67460 g1590824 Methanococcus jannaschii 2190 -11541247 6500737389 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0014 MJ0014 Methanococcus jannaschii 2190 -11541247

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933573	20891	43047	402	133

Description

5000698475 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0015 MJ0015 Methanococcus jannaschii 2190 -11541248 118726 mj0015 (de:hypothetical protein mj0015) (db:swissprot) Y015_METJA Q60330 METHANOCOCCUS JANNASCHII 2190 -11541248 173295 hypothetical protein mj0015 (db:pir2.dat) (mp:for15511-15807) G64301 G64301 Methanococcus jannaschii 2190 -11541248 246449 mj0015 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:similar to gb:142023 sp:p46452 pid:1161410) (le:5496) (re:5792) (di:direct) U67460 U67460 g1590825 Methanococcus jannaschii 2190 -11541248 6500737390 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0015 MJ0015 Methanococcus jannaschii 2190 -11541248

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933574	20892	43048	588	195

Description

GTC ORF with score 112 to: (fn:catalyzes the nad dependent oxidation of) (db:genpept-bct2) (de:pseudomonas pseudoalcaligenes 2-aminomuconic acid semialdehydedehydrogenase (amnc) gene, complete cds.) (le:128) (re:1756) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933575	20893	43049	450	149

Description

5000698476 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0016 MJ0016 Methanococcus jannaschii 2190 -11541249 118727 mj0016:mj1621.1 (de:hypothetical is-like element protein mj0016/mj1621.1) (db:swissprot) Y016_METJA Q60322 METHANOCOCCUS JANNASCHII 2190 -11541249 173296 hypothetical protein mj0016 (db:pir2.dat) (mp:rev16416-16240) H64301 H64301 Methanococcus jannaschii 2190 -11541249 246450 mj0016 m. jannaschii predicted coding region mj0016 (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6225) (re:6401) (di:complement) U67460 U67460 g1498774 Methanococcus jannaschii 2190 -11541249 7000687058 mj1621.1 is-like element (db:genpept-bct1) (de:methanococcus jannaschii section 144 of 150 of the complete genome.) (nt:similar to pid:913981 pid:2072435 percent identity:) (le:5730) (re:5906) (di:direct) U67602 U67602 g2826441 Methanococcus jannaschii 2190 -11541249 6500737391 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0016 MJ0016 Methanococcus jannaschii 2190 -11541249

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933583	20894	43050	450	149

Description

5000698477 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0018 MJ0018 Methanococcus jannaschii 2190 -11541250 118729 mj0018 (de:hypothetical protein mj0018) (db:swissprot) Y018_METJA Q60324 METHANOCOCCUS JANNASCHII 2190 -11541250 173297 hypothetical protein mj0018 (db:pir2.dat) (mp:for17658-19232) B64302 B64302 Methanococcus jannaschii 2190 -11541250 246452 mj0018 m. jannaschii predicted coding region mj0018 (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7643) (re:9217) (di:direct) U67460 U67460 g1498776 Methanococcus jannaschii 2190 -11541250 6500737392 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0018 MJ0018 Methanococcus jannaschii 2190 -11541250

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933589	20895	43051	579	192

Description

5000698270 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0019 MJ0019 Methanococcus jannaschii 2190 -11541251 120751 mj0019 (de:hypothetical protein mj0019) (db:swissprot) Y019_METJA Q60325 METHANOCOCCUS JANNASCHII 2190 -11541251 173298 hypothetical protein mj0019 (db:pir2.dat) (mp:rev21121-19229) C64302 C64302 Methanococcus jannaschii 2190 -11541251 246453 mj0019 glu-trna amidotransferase gatb (db:genpept-bct1) (de:methanococcus jannaschii section 2 of 150 of the complete genome.) (nt:similar to sp:p33893 pid:347493 pid:496701) (le:9214) (re:11106) (di:complement) U67460 U67460 g1498777 Methanococcus jannaschii 2190 -11541251 6500737393 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0019 MJ0019 Methanococcus jannaschii 2190 -11541251

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933594	20896	43052	426	141

Description

GTC ORF with score 98 to: (sr:saccharopolyspora erythraea (library: nrrl 2338) dna) (db:genpept-bct1) (de:saccharopolyspora erythraea orf 1 gene, partial cds; cytochromep-450 gene, complete cds; orf 2 gene, partial cds.) (nt:orf homologous to ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933597	20897	43053	1107	368

Description

5000699411 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0021 MJ0021 Methanococcus jannaschii 2190 -11541252 118730 mj0021 (de:hypothetical protein mj0021) (db:swissprot) Y021_METJA Q60332 METHANOCOCCUS JANNASCHII 2190 -11541252 173299 hypothetical protein mj0021 (cl:hypothetical protein mj0021) (db:pir2.dat) (mp:for22762-23889) E64302 E64302 Methanococcus jannaschii 2190 -11541252 246455 mj0021 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 3 of 150 of the complete genome.) (nt:similar to gp:1707810 percent identity: 43.12;) (le:206) (re:1333) (di:direct) U67461 U67461 g1498780 Methanococcus jannaschii 2190 -11541252 6500737394 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0021 MJ0021 Methanococcus jannaschii 2190 -11541252

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933605	20898	43054	1080	359

Description

5000698478 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0023 MJ0023 Methanococcus jannaschii 2190 -11541253 118732 mj0023 (de:hypothetical protein mj0023) (db:swissprot) Y023_METJA Q60333 METHANOCOCCUS JANNASCHII 2190 -11541253 173300 hypothetical protein mj0023 (db:pir2.dat) (mp:for25284-25640) G64302 G64302 Methanococcus jannaschii 2190 -11541253 246457 mj0023 m. jannaschii predicted coding region mj0023 (db:genpept-bct1) (de:methanococcus jannaschii section 3 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2728) (re:3084) (di:direct) U67461 U67461 g1498782 Methanococcus jannaschii 2190 -11541253 6500737395 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0023 MJ0023 Methanococcus jannaschii 2190 -11541253

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933606	20899	43055	867	288

Description

5000698479 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0024 MJ0024 Methanococcus jannaschii 2190 -11541254 118733 mj0024 (de:hypothetical protein mj0024) (db:swissprot) Y024_METJA Q60334 METHANOCOCCUS JANNASCHII 2190 -11541254 173301 conserved hypothetical protein mj0024 (cl:methanococcus jannaschii conserved hypothetical protein mj0024) (db:pir2.dat) (mp:rev26105-25686) H64302 H64302 Methanococcus jannaschii 2190 -11541254 246458 mj0024 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 3 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 46.38;) (le:3130) (re:3549) (di:complement) U67461 U67461 g1498783 Methanococcus jannaschii 2190 -11541254 6500737396 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0024 MJ0024 Methanococcus jannaschii 2190 -11541254

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933607	20900	43056	225	74

Description

6500737397 rtca:mj0025 hypothetical protein:probable rna 3-terminal phosphate cyclase:rna-3-phosphate cyclase:rna cyclase (gtcfc:14.1) (ec:6.5.1.4) (keggfc:14.1) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0025 MJ0025 Methanococcus jannaschii 2190 -11541255 118734 rtca:mj0025 (ec:6.5.1.4) (de:phosphate cyclase) (rna cyclase)) (db:swissprot) RTCA_METJA Q60335 METHANOCOCCUS JANNASCHII 2190 -11541255 173302 conserved hypothetical protein mj0025 (cl:methanococcus jannaschii conserved hypothetical protein mj0025) (db:pir2.dat) (mp:rev27122-26106) A64303 A64303 Methanococcus jannaschii 2190 -11541255 246459 mj0025 hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 3 of 150 of the complete genome.) (nt:similar to sp:p46849 pid:606355 gb:u00096) (le:3550) (re:4566) (di:complement) U67461 U67461 g1498784 Methanococcus jannaschii 2190 -11541255 5000698480 (de:(mj0025) (pn:hypothetical protein mj0025:hypothetical protein:p46849) (gtcfc:13.7:14.1) (ec:) (y025_metja) (keggfc:11.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii)) MJ0025 MJ0025 Methanococcus jannaschii 2190 10061096

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933612	20901	43057	249	82

Description

5000698481 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0027 MJ0027 Methanococcus jannaschii 2190 -11541256 118735 mj0027 (de:hypothetical protein mj0027) (db:swissprot) Y027_METJA Q60336 METHANOCOCCUS JANNASCHII 2190 -11541256 173303 hypothetical protein mj0027 (db:pir2.dat) (mp:rev28572-28018) C64303 C64303 Methanococcus jannaschii 2190 -11541256 246461 mj0027 m. jannaschii predicted coding region mj0027 (db:genpept-bct1) (de:methanococcus jannaschii section 3 of 150 of the complete genome.) (nt:brute force orf; identified by genemark; putative) (le:5462) (re:6016) (di:complement) U67461 U67461 g1498786 Methanococcus jannaschii 2190 -11541256 6500737398 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0027 MJ0027 Methanococcus jannaschii 2190 -11541256

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933615	20902	43058	576	191

Description

5000698483 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0034 MJ0034 Methanococcus jannaschii 2190 -11541257 118738 mj0034 (de:hypothetical protein mj0034) (db:swissprot) Y034_METJA Q60349 METHANOCOCCUS JANNASCHII 2190 -11541257 173202 hypothetical protein homolog mj0034 (db:pir2.dat) (mp:rev36387-35437) B64304 B64304 Methanococcus jannaschii 2190 -11541257 246468 mj0034 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to pid:726070 gb:ae000666 percent identity:) (le:1961) (re:2911) (di:complement) U67462 U67462 g1590837 Methanococcus jannaschii 2190 -11541257 6500737399 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0034 MJ0034 Methanococcus jannaschii 2190 -11541257

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933619	20903	43059	1164	387

Description

5000698484 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0037 MJ0037 Methanococcus jannaschii 2190 -11541258 118739 mj0037 (de:hypothetical protein mj0037) (db:swissprot) Y037_METJA Q60344 METHANOCOCCUS JANNASCHII 2190 -11541258 173304 probable phosphoesterase:mj0037:hypothetical protein mj0037 (cl:probable phosphoesterase mj0037:phosphoesterase core homology) (ec:3.1.-.-) (db:pir1.dat) (mp:for38073-38789) E64304 E64304 Methanococcus jannaschii 2190 -11541258 246471 mj0037 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 37.05;) (le:4597) (re:5313) (di:direct) U67462 U67462 g1498797 Methanococcus jannaschii 2190 -11541258 6500737400 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0037 MJ0037 Methanococcus jannaschii 2190 -11541258

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933620	20904	43060	969	322

Description

5000698485 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0038 MJ0038 Methanococcus jannaschii 2190 -11541259 118740 mj0038 (de:hypothetical protein mj0038) (db:swissprot) Y038_METJA Q60345 METHANOCOCCUS JANNASCHII 2190 -11541259 173305 conserved hypothetical protein mj0038 (cl:methanococcus jannaschii conserved hypothetical protein mj0038) (db:pir2.dat) (mp:rev39443-38790) F64304 F64304 Methanococcus jannaschii 2190 -11541259 246472 mj0038 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 51.12;) (le:5314) (re:5967) (di:complement) U67462 U67462 g1498798 Methanococcus jannaschii 2190 -11541259 6500737401 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0038 MJ0038 Methanococcus jannaschii 2190 -11541259

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933621	20905	43061	408	135

Description

5000698486 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0039 MJ0039 Methanococcus jannaschii 2190 -11541260 118741 mj0039 (de:hypothetical protein mj0039) (db:swissprot) Y039_METJA Q60351 METHANOCOCCUS JANNASCHII 2190 -11541260 173306 hypothetical protein mj0039 (cl:conserved hypothetical protein mj0039) (db:pir2.dat) (mp:rev39998-39651) G64304 G64304 Methanococcus jannaschii 2190 -11541260 246473 mj0039 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 44.44;) (le:6175) (re:6522) (di:complement) U67462 U67462 g1590840 Methanococcus jannaschii 2190 -11541260 6500737402 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0039 MJ0039 Methanococcus jannaschii 2190 -11541260

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933623	20906	43062	198	65

Description

5000698487 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0041 MJ0041 Methanococcus jannaschii 2190 -11541261 118742 mj0041 (de:hypothetical protein mj0041) (db:swissprot) Y041_METJA Q60346 METHANOCOCCUS JANNASCHII 2190 -11541261 173307 conserved hypothetical protein mj0041 (cl:methanococcus jannaschii conserved hypothetical protein mj0041) (db:pir2.dat) (mp:rev41838-40474) A64305 A64305 Methanococcus jannaschii 2190 -11541261 246475 mj0041 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 48.56;) (le:6998) (re:8362) (di:complement) U67462 U67462 g1498801 Methanococcus jannaschii 2190 -11541261 6500737403 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0041 MJ0041 Methanococcus jannaschii 2190 -11541261

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933633	20907	43063	804	267

Description

GTC ORF with score 152 to: (sr:epstein-barr virus type 2 misp japanese isolate) (db:genpept-vrl) (de:nuclear antigen-3b {exons berf2a and berf2b} (epstein-barr virus-2ebv-2, misp, japanese isolate, genomic, 3840 nt).) (le:142:577) (re:498:3780) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933634	20908	43064	192	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933635	20909	43065	537	178

Description

5000698488 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0042 MJ0042 Methanococcus jannaschii 2190 -11541262 118743 mj0042 (de:hypothetical protein mj0042) (db:swissprot) Y042_METJA Q60347 METHANOCOCCUS JANNASCHII 2190 -11541262 173308 hypothetical protein mj0042 (db:pir2.dat) (mp:rev42527-41880) B64305 B64305 Methanococcus jannaschii 2190 -11541262 246476 mj0042 m. jannaschii predicted coding region mj0042 (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8404) (re:9051) (di:complement) U67462 U67462 g1498802 Methanococcus jannaschii 2190 -11541262 6500737404 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0042 MJ0042 Methanococcus jannaschii 2190 -11541262

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933643	20910	43066	315	104

Description

5000698489 intein containing hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0043 MJ0043 Methanococcus jannaschii 2190 -11541263 118744 mj0043 (de:hypothetical protein mj0043) (db:swissprot) Y043_METJA Q60348 METHANOCOCCUS JANNASCHII 2190 -11541263 172957 ansr 5-region hypothetical intein-containing protein homolog mj0043 (db:pir2.dat) (mp:for42755-45112) C64305 C64305 Methanococcus jannaschii 2190 -11541263 246477 mj0043 intein containing hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to gp:1303985 percent identity: 41.38;) (le:9279) (re:11636) (di:direct) U67462 U67462 g1498803 Methanococcus jannaschii 2190 -11541263 6500737405 intein containing hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0043 MJ0043 Methanococcus jannaschii 2190 -11541263

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933644	20911	43067	252	83

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933645	20912	43068	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933646	20913	43069	312	103

Description

5000698490 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0044 MJ0044 Methanococcus jannaschii 2190 -11541264 118745 mj0044 (de:hypothetical protein mj0044) (db:swissprot) Y044_METJA Q60352 METHANOCOCCUS JANNASCHII 2190 -11541264 173203 hypothetical protein homolog mj0044 (db:pir2.dat) (mp:rev45899-45117) D64305 D64305 Methanococcus jannaschii 2190 -11541264 246478 mj0044 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to gp:1707830 percent identity: 36.40;) (le:11641) (re:12423) (di:complement) U67462 U67462 g1590842 Methanococcus jannaschii 2190 -11541264 6500737406 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0044 MJ0044 Methanococcus jannaschii 2190 -11541264

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933649	20914	43070	1002	333

Description

5000698491 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0045 MJ0045 Methanococcus jannaschii 2190 -11541265 118746 mj0045 (de:hypothetical protein mj0045) (db:swissprot) Y045_METJA Q60353 METHANOCOCCUS JANNASCHII 2190 -11541265 173309 conserved hypothetical protein mj0045 (cl:methanococcus jannaschii conserved hypothetical protein mj0045) (db:pir2.dat) (mp:rev46569-45904) E64305 E64305 Methanococcus jannaschii 2190 -11541265 246479 mj0045 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 35.35;) (le:12428) (re:13093) (di:complement) U67462 U67462 g1590843 Methanococcus jannaschii 2190 -11541265 6500737407 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0045 MJ0045 Methanococcus jannaschii 2190 -11541265

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933651	20915	43071	624	207

Description

5000698092 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0046 MJ0046 Methanococcus jannaschii 2190 -11541266 118747 mj0046 (de:hypothetical protein mj0046) (db:swissprot) Y046_METJA Q60354 METHANOCOCCUS JANNASCHII 2190 -11541266 173310 hypothetical protein mj0046 (db:pir2.dat) (mp:rev47351-46566) F64305 F64305 Methanococcus jannaschii 2190 -11541266 246480 mj0046 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 4 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p45106 pid:1007078) (le:13090) (re:13875) (di:complement) U67462 U67462 g1590844 Methanococcus jannaschii 2190 -11541266 6500737408 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0046 MJ0046 Methanococcus jannaschii 2190 -11541266

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933652	20916	43072	321	106

Description

5000698493 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0048 MJ0048 Methanococcus jannaschii 2190 -11541267 118749 mj0048 (de:putative translation initiation factor 6 (eif-6)) (db:swissprot) IF6_METJA Q60357 METHANOCOCCUS JANNASCHII 2190 -11541267 173204 hypothetical protein homolog mj0048 (cl:conserved hypothetical protein ypr016c) (db:pir2.dat) (mp:rev50202-49516) H64305 H64305 Methanococcus jannaschii 2190 -11541267 246482 mj0048 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to sp:p38619 pid:453440 percent identity:) (le:804) (re:1490) (di:complement) U67463 U67463 g1498809 Methanococcus jannaschii 2190 -11541267 6500737409 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0048 MJ0048 Methanococcus jannaschii 2190 -11541267

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933653	20917	43073	189	62

Description

5000698494 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0051 MJ0051 Methanococcus jannaschii 2190 -11541268 118751 mj0051 (de:hypothetical protein mj0051) (db:swissprot) Y051_METJA Q60363 METHANOCOCCUS JANNASCHII 2190 -11541268 174283 hypothetical protein ybl057c homolog (db:pir2.dat) (mp:for52347-52694) C64306 C64306 Methanococcus jannaschii 2190 -11541268 246485 mj0051 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to sp:p34222 pid:313741 pid:536088 percent) (le:3635) (re:3982) (di:direct) U67463 U67463 g1590848 Methanococcus jannaschii 2190 -11541268 6500737410 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0051 MJ0051 Methanococcus jannaschii 2190 -11541268

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933654	20918	43074	450	149

Description

5000698495 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0052 MJ0052 Methanococcus jannaschii 2190 -11541269 118752 mj0052 (de:hypothetical protein mj0052) (db:swissprot) Y052_METJA Q60359 METHANOCOCCUS JANNASCHII 2190 -11541269 173312 hypothetical protein mj0052 (db:pir2.dat) (mp:rev53374-52706) D64306 D64306 Methanococcus jannaschii 2190 -11541269 246486 mj0052 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to gp:1786712 percent identity: 31.30;) (le:3994) (re:4662) (di:complement) U67463 U67463 g1498813 Methanococcus jannaschii 2190 -11541269 6500737411 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0052 MJ0052 Methanococcus jannaschii 2190 -11541269

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933655	20919	43075	363	120

Description

5000698496 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0053 MJ0053 Methanococcus jannaschii 2190 -11541270 118753 mj0053 (de:hypothetical protein mj0053) (db:swissprot) Y053_METJA Q60360 METHANOCOCCUS JANNASCHII 2190 -11541270 173313 hypothetical protein mj0053 (db:pir2.dat) (mp:rev54068-53385) E64306 E64306 Methanococcus jannaschii 2190 -11541270 246487 mj0053 m. jannaschii predicted coding region mj0053 (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4673) (re:5356) (di:complement) U67463 U67463 g1498814 Methanococcus jannaschii 2190 -11541270 6500737412 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0053 MJ0053 Methanococcus jannaschii 2190 -11541270

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933658	20920	43076	195	64

Description

5000698497 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0054 MJ0054 Methanococcus jannaschii 2190 -11541271 118754 mj0054 (de:hypothetical protein mj0054) (db:swissprot) Y054_METJA Q60361 METHANOCOCCUS JANNASCHII 2190 -11541271 173314 hypothetical protein mj0054 (cl:hypothetical protein mj0054) (db:pir2.dat) (mp:rev55001-54156) F64306 F64306 Methanococcus jannaschii 2190 -11541271 246488 mj0054 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 46.33;) (le:5444) (re:6289) (di:complement) U67463 U67463 g1498815 Methanococcus jannaschii 2190 -11541271 6500737413 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0054 MJ0054 Methanococcus jannaschii 2190 -11541271

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933659	20921	43077	198	65

Description

5000698498 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0056 MJ0056 Methanococcus jannaschii 2190 -11541272 118755 mj0056 (de:hypothetical protein mj0056) (db:swissprot) Y056_METJA Q60365 METHANOCOCCUS JANNASCHII 2190 -11541272 173315 conserved hypothetical protein mj0056 (cl:methanococcus jannaschii conserved hypothetical protein mj0056) (db:pir2.dat) (mp:rev56166-55756) H64306 H64306 Methanococcus jannaschii 2190 -11541272 246490 mj0056 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 5 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 35.04;) (le:7044) (re:7454) (di:complement) U67463 U67463 g1590850 Methanococcus jannaschii 2190 -11541272 6500737414 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0056 MJ0056 Methanococcus jannaschii 2190 -11541272

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933660	20922	43078	1146	381

Description

5000698499 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0062 MJ0062 Methanococcus jannaschii 2190 -11541273 121481 mj0062 (de:hypothetical protein mj0062) (db:swissprot) Y062_METJA Q60369 METHANOCOCCUS JANNASCHII 2190 -11541273 173316 conserved hypothetical protein mj0062 (cl:methanococcus jannaschii conserved hypothetical protein mj0062) (db:pir2.dat) (mp:for60618-61241) F64307 F64307 Methanococcus jannaschii 2190 -11541273 246496 mj0062 hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:similar to sp:q10618 pid:1322425 percent identity:) (le:1772) (re:2395) (di:direct) U67464 U67464 g1498824 Methanococcus jannaschii 2190 -11541273 6500737415 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0062 MJ0062 Methanococcus jannaschii 2190 -11541273

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933661	20923	43079	324	107

Description

5000698500 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0063 MJ0063 Methanococcus jannaschii 2190 -11541274 118757 mj0063 (de:hypothetical protein mj0063) (db:swissprot) Y063_METJA Q60375 METHANOCOCCUS JANNASCHII 2190 -11541274 173317 hypothetical protein mj0063 (db:pir2.dat) (mp:for61313-61858) G64307 G64307 Methanococcus jannaschii 2190 -11541274 246497 mj0063 m. jannaschii predicted coding region mj0063 (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2467) (re:3012) (di:direct) U67464 U67464 g1590854 Methanococcus jannaschii 2190 -11541274 6500737416 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0063 MJ0063 Methanococcus jannaschii 2190 -11541274

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933662	20924	43080	336	111

Description

5000698501 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0064 MJ0064 Methanococcus jannaschii 2190 -11541275 118758 mj0064 (de:hypothetical protein mj0064) (db:swissprot) Y064_METJA Q60376 METHANOCOCCUS JANNASCHII 2190 -11541275 173318 hypothetical protein mj0064 (db:pir2.dat) (mp:for61888-62457) H64307 H64307 Methanococcus jannaschii 2190 -11541275 246498 mj0064 m. jannaschii predicted coding region mj0064 (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3042) (re:3611) (di:direct) U67464 U67464 g1590855 Methanococcus jannaschii 2190 -11541275 6500737417 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0064 MJ0064 Methanococcus jannaschii 2190 -11541275

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933663	20925	43081	216	71

Description

GTC ORF with score 304 to: (or:Emericella nidulans) (sr:emericella nidulans) (db:genpept-pln1) (de:mitochondrion aspergillus nidulans unidentified reading frames urf1and urf4 (identified by homology to human urf1 and urf4).) (le:57) (re:1115) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933664	20926	43082	327	108

Description

5000698502 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0065 MJ0065 Methanococcus jannaschii 2190 -11541276 118759 mj0065 (de:hypothetical protein mj0065) (db:swissprot) Y065_METJA Q60370 METHANOCOCCUS JANNASCHII 2190 -11541276 173319 conserved hypothetical protein mj0065 (cl:methanococcus jannaschii conserved hypothetical protein mj0065) (db:pir2.dat) (mp:rev63551-62460) A64308 A64308 Methanococcus jannaschii 2190 -11541276 246499 mj0065 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 48.48;) (le:3614) (re:4705) (di:complement) U67464 U67464 g1498827 Methanococcus jannaschii 2190 -11541276 6500737418 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0065 MJ0065 Methanococcus jannaschii 2190 -11541276

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933665	20927	43083	381	126

Description

5000698504 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0067 MJ0067 Methanococcus jannaschii 2190 -11541277 118761 mj0067 (de:hypothetical protein mj0067) (db:swissprot) Y067_METJA Q60371 METHANOCOCCUS JANNASCHII 2190 -11541277 173321 hypothetical protein mj0067 (db:pir2.dat) (mp:for65160-65471) C64308 C64308 Methanococcus jannaschii 2190 -11541277 246501 mj0067 m. jannaschii predicted coding region mj0067 (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6314) (re:6625) (di:direct) U67464 U67464 g1498829 Methanococcus jannaschii 2190 -11541277 6500737419 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0067 MJ0067 Methanococcus jannaschii 2190 -11541277

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933666	20928	43084	780	259

Description

5000698505 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0068 MJ0068 Methanococcus jannaschii 2190 -11541278 118762 mj0068 (de:hypothetical protein mj0068) (db:swissprot) Y068_METJA Q60372 METHANOCOCCUS JANNASCHII 2190 -11541278 173322 hypothetical protein mj0068 (db:pir2.dat) (mp:rev65861-65514) D64308 D64308 Methanococcus jannaschii 2190 -11541278 246502 mj0068 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 52.63;) (le:6668) (re:7015) (di:complement) U67464 U67464 g1498830 Methanococcus jannaschii 2190 -11541278 6500737420 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0068 MJ0068 Methanococcus jannaschii 2190 -11541278

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933667	20929	43085	210	69

Description

5000698506 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0070 MJ0070 Methanococcus jannaschii 2190 -11541279 118763 mj0070 (de:hypothetical protein mj0070) (db:swissprot) Y070_METJA Q60373 METHANOCOCCUS JANNASCHII 2190 -11541279 173323 hypothetical protein mj0070 (db:pir2.dat) (mp:for66966-67214) F64308 F64308 Methanococcus jannaschii 2190 -11541279 246504 mj0070 m. jannaschii predicted coding region mj0070 (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8120) (re:8368) (di:direct) U67464 U67464 g1498832 Methanococcus jannaschii 2190 -11541279 6500737421 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0070 MJ0070 Methanococcus jannaschii 2190 -11541279

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933668	20930	43086	576	191

Description

GTC ORF with score 920 to: (sr:emericella nidulans) (db:genpept-pln1) (de:aspergillus nidulans mitochondrial genes for atpase subunit 6trna-arg(ucu) and trna-asn(guu).) (nt:atpase subunit 6 (aa 1-256)) (le:585) (re:1355) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933671	20931	43087	210	69

Description

5000698507 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0071 MJ0071 Methanococcus jannaschii 2190 -11541280 118764 mj0071 (de:hypothetical protein mj0071) (db:swissprot) Y071_METJA Q60374 METHANOCOCCUS JANNASCHII 2190 -11541280 173324 hypothetical protein mj0071 (cl:hypothetical protein mj0071) (db:pir2.dat) (mp:for67211-67483) G64308 G64308 Methanococcus jannaschii 2190 -11541280 246505 mj0071 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:similar to gb:u03554 percent identity: 44.44;) (le:8365) (re:8637) (di:direct) U67464 U67464 g1498833 Methanococcus jannaschii 2190 -11541280 6500737422 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0071 MJ0071 Methanococcus jannaschii 2190 -11541280

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933674	20932	43088	297	98

Description

5000698508 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0072 MJ0072 Methanococcus jannaschii 2190 -11541281 118765 mj0072 (de:hypothetical protein mj0072) (db:swissprot) Y072_METJA Q60378 METHANOCOCCUS JANNASCHII 2190 -11541281 173325 hypothetical protein mj0072 (db:pir2.dat) (mp:for67562-67696) H64308 H64308 Methanococcus jannaschii 2190 -11541281 246506 mj0072 m. jannaschii predicted coding region mj0072 (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8716) (re:8850) (di:direct) U67464 U67464 g1590858 Methanococcus jannaschii 2190 -11541281 6500737423 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0072 MJ0072 Methanococcus jannaschii 2190 -11541281

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933675	20933	43089	795	264

Description

5000698509 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0073 MJ0073 Methanococcus jannaschii 2190 -11541282 118766 mj0073 (de:hypothetical protein mj0073) (db:swissprot) Y073_METJA Q60379 METHANOCOCCUS JANNASCHII 2190 -11541282 173326 hypothetical protein mj0073 (db:pir2.dat) (mp:for67729-68010) A64309 A64309 Methanococcus jannaschii 2190 -11541282 246507 mj0073 m. jannaschii predicted coding region mj0073 (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8883) (re:9164) (di:direct) U67464 U67464 g1590859 Methanococcus jannaschii 2190 -11541282 6500737424 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0073 MJ0073 Methanococcus jannaschii 2190 -11541282

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933676	20934	43090	726	241

Description

5000698510 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0074 MJ0074 Methanococcus jannaschii 2190 -11541283 118933 mj0074 (de:hypothetical atp-binding protein mj0074) (db:swissprot) Y074_METJA Q60380 METHANOCOCCUS JANNASCHII 2190 -11541283 173327 hypothetical protein mj0074 (db:pir2.dat) (mp:rev69089-68013) B64309 B64309 Methanococcus jannaschii 2190 -11541283 246508 mj0074 m. jannaschii predicted coding region mj0074 (db:genpept-bct1) (de:methanococcus jannaschii section 6 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9167) (re:10243) (di:complement) U67464 U67464 g1590860 Methanococcus jannaschii 2190 -11541283 6500737425 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0074 MJ0074 Methanococcus jannaschii 2190 -11541283

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933677	20935	43091	441	146

Description

GTC ORF with score 563 to: (or:Emericella nidulans) (sr:emericella nidulans) (db:genpept-pln1) (de:mitochondrion aspergillus nidulans unidentified reading frames urf1and urf4 (identified by homology to human urf1 and urf4).) (le:57) (re:1115) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933678	20936	43092	528	175

Description

GTC ORF with score 780 to: (or:Emericella nidulans) (sr:emericella nidulans) (db:genpept-pln1) (de:mitochondrion aspergillus nidulans unidentified reading frames urf1and urf4 (identified by homology to human urf1 and urf4).) (le:57) (re:1115) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933681	20937	43093	399	132

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933682	20938	43094	267	88

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933684	20939	43095	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933687	20940	43096	225	74

Description

5000698511 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0075 MJ0075 Methanococcus jannaschii 2190 -11541284 118934 mj0075 (de:hypothetical atp-binding protein mj0075) (db:swissprot) Y075_METJA Q60388 METHANOCOCCUS JANNASCHII 2190 -11541284 173328 hypothetical protein mj0075 (db:pir2.dat) (mp:rev70330-69233) C64309 C64309 Methanococcus jannaschii 2190 -11541284 246509 mj0075 m. jannaschii predicted coding region mj0075 (db:genpept-bct1) (de:methanococcus jannaschii section 7 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:97) (re:1194) (di:complement) U67465 U67465 g1590862 Methanococcus jannaschii 2190 -11541284 6500737426 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0075 MJ0075 Methanococcus jannaschii 2190 -11541284

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933689	20941	43097	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933701	20942	43098	237	78

Description

5000698512 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0077 MJ0077 Methanococcus jannaschii 2190 -11541285 118768 mj0077 (de:hypothetical protein mj0077) (db:swissprot) Y077_METJA Q60384 METHANOCOCCUS JANNASCHII 2190 -11541285 173329 hypothetical protein mj0077 (db:pir2.dat) (mp:rev71539-70391) D64309 D64309 Methanococcus jannaschii 2190 -11541285 246510 mj0077 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 7 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p03818 pid:290594) (le:1255) (re:2403) (di:complement) U67465 U67465 g1498840 Methanococcus jannaschii 2190 -11541285 6500737427 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0077 MJ0077 Methanococcus jannaschii 2190 -11541285

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933706	20943	43099	327	108

Description

5000698513 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0076 MJ0076 Methanococcus jannaschii 2190 -11541286 118767 mj0076 (de:hypothetical protein mj0076) (db:swissprot) Y076_METJA Q60383 METHANOCOCCUS JANNASCHII 2190 -11541286 173206 hypothetical protein homolog mj0076 (db:pir2.dat) (mp:for71620-71961) E64309 E64309 Methanococcus jannaschii 2190 -11541286 246511 mj0076 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 7 of 150 of the complete genome.) (nt:similar to pid:726078 percent identity: 25.23;) (le:2484) (re:2825) (di:direct) U67465 U67465 g1498839 Methanococcus jannaschii 2190 -11541286 6500737428 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0076 MJ0076 Methanococcus jannaschii 2190 -11541286

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933707	20944	43100	195	64

Description

5000698514 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0078 MJ0078 Methanococcus jannaschii 2190 -11541287 118769 mj0078 (de:hypothetical protein mj0078) (db:swissprot) Y078_METJA Q60385 METHANOCOCCUS JANNASCHII 2190 -11541287 173330 hypothetical protein mj0078 (db:pir2.dat) (mp:rev72674-72051) F64309 F64309 Methanococcus jannaschii 2190 -11541287 246512 mj0078 m. jannaschii predicted coding region mj0078 (db:genpept-bct1) (de:methanococcus jannaschii section 7 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2915) (re:3538) (di:complement) U67465 U67465 g1498841 Methanococcus jannaschii 2190 -11541287 6500737429 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0078 MJ0078 Methanococcus jannaschii 2190 -11541287

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933708	20945	43101	186	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933709	20946	43102	639	212

Description

5000698515 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0080 MJ0080 Methanococcus jannaschii 2190 -11541288 118771 mj0080 (de:hypothetical protein mj0080) (db:swissprot) Y080_METJA Q60386 METHANOCOCCUS JANNASCHII 2190 -11541288 173331 hypothetical protein mj0080 (cl:conserved hypothetical protein mj0080) (db:pir2.dat) (mp:rev74182-73799) H64309 H64309 Methanococcus jannaschii 2190 -11541288 246514 mj0080 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 7 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 33.59;) (le:4663) (re:5046) (di:complement) U67465 U67465 g1498843 Methanococcus jannaschii 2190 -11541288 6500737430 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0080 MJ0080 Methanococcus jannaschii 2190 -11541288

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933715	20947	43103	291	97

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933734	20948	43104	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933736	20949	43105	492	163

Description

5000698516 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0088 MJ0088 Methanococcus jannaschii 2190 -11541289 118775 mj0088 (de:hypothetical protein mj0088) (db:swissprot) Y088_METJA Q57553 METHANOCOCCUS JANNASCHII 2190 -11541289 173333 hypothetical protein mj0088 (db:pir2.dat) (mp:for82998-83540) H64310 H64310 Methanococcus jannaschii 2190 -11541289 246522 mj0088 m. jannaschii predicted coding region mj0088 (db:genpept-bct1) (de:methanococcus jannaschii section 8 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3461) (re:4003) (di:direct) U67466 U67466 g1590870 Methanococcus jannaschii 2190 -11541289 6500737431 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0088 MJ0088 Methanococcus jannaschii 2190 -11541289

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933744	20950	43106	306	101

Description

5000698517 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0093 MJ0093 Methanococcus jannaschii 2190 -11541290 118777 mj0093 (de:hypothetical protein mj0093) (db:swissprot) Y093_METJA Q57558 METHANOCOCCUS JANNASCHII 2190 -11541290 173334 hypothetical protein mj0093 (db:pir2.dat) (mp:rev88517-88089) E64311 E64311 Methanococcus jannaschii 2190 -11541290 246527 mj0093 m. jannaschii predicted coding region mj0093 (db:genpept-bct1) (de:methanococcus jannaschii section 8 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8552) (re:8980) (di:complement) U67466 U67466 g1498857 Methanococcus jannaschii 2190 -11541290 6500737432 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0093 MJ0093 Methanococcus jannaschii 2190 -11541290

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933746	20951	43107	378	126

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933749	20952	43108	477	159

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933769	20953	43109	363	120

Description

5000698518 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0095 MJ0095 Methanococcus jannaschii 2190 -11541291 118779 mj0095 (de:hypothetical protein mj0095) (db:swissprot) Y095_METJA Q57560 METHANOCOCCUS JANNASCHII 2190 -11541291 173336 hypothetical protein mj0095 (db:pir2.dat) (mp:rev89945-89565) G64311 G64311 Methanococcus jannaschii 2190 -11541291 246529 mj0095 m. jannaschii predicted coding region mj0095 (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:61) (re:441) (di:complement) U67467 U67467 g1592261 Methanococcus jannaschii 2190 -11541291 6500737433 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0095 MJ0095 Methanococcus jannaschii 2190 -11541291

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933777	20954	43110	600	200

Description

5000698519 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0096 MJ0096 Methanococcus jannaschii 2190 -11541292 118780 mj0096 (de:hypothetical protein mj0096) (db:swissprot) Y096_METJA Q57561 METHANOCOCCUS JANNASCHII 2190 -11541292 173337 hypothetical protein mj0096 (db:pir2.dat) (mp:rev90752-89964) H64311 H64311 Methanococcus jannaschii 2190 -11541292 246530 mj0096 m. jannaschii predicted coding region mj0096 (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:460) (re:1248) (di:complement) U67467 U67467 g1498861 Methanococcus jannaschii 2190 -11541292 6500737434 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0096 MJ0096 Methanococcus jannaschii 2190 -11541292

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933799	20955	43111	456	152

Description

5000698520 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0100 MJ0100 Methanococcus jannaschii 2190 -11541293 118782 mj0100 (de:hypothetical protein mj0100) (db:swissprot) Y100_METJA Q57564 METHANOCOCCUS JANNASCHII 2190 -11541293 173338 hypothetical protein mj0100 (db:pir2.dat) (mp:rev94823-93294) D64312 D64312 Methanococcus jannaschii 2190 -11541293 246534 mj0100 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:similar to pid:1652054 percent identity: 48.63;) (le:3790) (re:5319) (di:complement) U67467 U67467 g1498865 Methanococcus jannaschii 2190 -11541293 6500737435 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0100 MJ0100 Methanococcus jannaschii 2190 -11541293

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933801	20956	43112	360	120

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933805	20957	43113	600	200

Description

5000698521 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0103 MJ0103 Methanococcus jannaschii 2190 -11541294 118784 mj0103 (de:hypothetical protein mj0103) (db:swissprot) Y103_METJA Q57567 METHANOCOCCUS JANNASCHII 2190 -11541294 173339 hypothetical protein mj0103 (db:pir2.dat) (mp:for97958-99259) G64312 G64312 Methanococcus jannaschii 2190 -11541294 246537 mj0103 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:similar to gb:z35277 sp:p39757 pid:516272) (le:8454) (re:9755) (di:direct) U67467 U67467 g1498868 Methanococcus jannaschii 2190 -11541294 6500737436 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0103 MJ0103 Methanococcus jannaschii 2190 -11541294

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933810	20958	43114	582	194

Description

5000698522 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0105 MJ0105 Methanococcus jannaschii 2190 -11541295 118785 mj0105 (de:hypothetical protein mj0105) (db:swissprot) Y105_METJA Q57569 METHANOCOCCUS JANNASCHII 2190 -11541295 173340 hypothetical protein mj0105 (db:pir2.dat) (mp:rev101694-101236) A64313 A64313 Methanococcus jannaschii 2190 -11541295 246539 mj0105 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 9 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 31.07;) (le:11732) (re:12190) (di:complement) U67467 U67467 g1590881 Methanococcus jannaschii 2190 -11541295 6500737437 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0105 MJ0105 Methanococcus jannaschii 2190 -11541295

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933821	20959	43115	210	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933826	20960	43116	369	123

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933834	20961	43117	393	130

Description

5000698523 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0106 MJ0106 Methanococcus jannaschii 2190 -11541296 118786 mj0106 (de:hypothetical protein mj0106) (db:swissprot) Y106_METJA Q57570 METHANOCOCCUS JANNASCHII 2190 -11541296 173341 probable 3-isopropylmalate dehydratase:conserved hypothetical protein mj0106 (cl:3-isopropylmalate dehydratase leud chain) (db:pir2.dat) (mp:rev102553-101837) B64313 B64313 Methanococcus jannaschii 2190 -11541296 246540 mj0106 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 10 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 38.16;) (le:97) (re:813) (di:complement) U67468 U67468 g1590883 Methanococcus jannaschii 2190 -11541296 6500737438 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0106 MJ0106 Methanococcus jannaschii 2190 -11541296

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933838	20962	43118	372	123

Description

5000699414 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0109 MJ0109 Methanococcus jannaschii 2190 -11541297 119744 mj0109 (de:hypothetical protein mj0109) (db:swissprot) Y109_METJA Q57573 METHANOCOCCUS JANNASCHII 2190 -11541297 173343 hypothetical protein mj0109 (db:pir2.dat) (mp:rev106419-105661) E64313 E64313 Methanococcus jannaschii 2190 -11541297 246543 mj0109 extragenic suppressor suhb (db:genpept-bct1) (de:methanococcus jannaschii section 10 of 150 of the complete genome.) (nt:similar to gb:142023 sp:p44333 pid:1006075) (le:3921) (re:4679) (di:complement) U67468 U67468 g1498875 Methanococcus jannaschii 2190 -11541297 6500737439 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0109 MJ0109 Methanococcus jannaschii 2190 -11541297

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933856	20963	43119	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933858	20964	43120	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933869	20965	43121	471	157

Description

5000698524 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0110 MJ0110 Methanococcus jannaschii 2190 -11541298 118788 mj0110 (de:hypothetical protein mj0110) (db:swissprot) Y110_METJA Q57574 METHANOCOCCUS JANNASCHII 2190 -11541298 173344 hypothetical protein mj0110 (db:pir2.dat) (mp:rev106892-106611) F64313 F64313 Methanococcus jannaschii 2190 -11541298 246544 mj0110 m. jannaschii predicted coding region mj0110 (db:genpept-bct1) (de:methanococcus jannaschii section 10 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4871) (re:5152) (di:complement) U67468 U67468 g1590886 Methanococcus jannaschii 2190 -11541298 6500737440 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0110 MJ0110 Methanococcus jannaschii 2190 -11541298

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933896	20966	43122	420	140

Description

5000698525 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0114 MJ0114 Methanococcus jannaschii 2190 -11541299 118790 mj0114 (de:hypothetical protein mj0114) (db:swissprot) Y114_METJA Q57578 METHANOCOCCUS JANNASCHII 2190 -11541299 173345 hypothetical protein mj0114 (db:pir2.dat) (mp:for111874-112785) B64314 B64314 Methanococcus jannaschii 2190 -11541299 246548 mj0114 m. jannaschii predicted coding region mj0114 (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:244) (re:1155) (di:direct) U67469 U67469 g1592262 Methanococcus jannaschii 2190 -11541299 6500737441 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0114 MJ0114 Methanococcus jannaschii 2190 -11541299

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933907	20967	43123	582	194

Description

5000698526 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0115 MJ0115 Methanococcus jannaschii 2190 -11541300 118791 mj0115 (de:hypothetical protein mj0115) (db:swissprot) Y115_METJA Q57579 METHANOCOCCUS JANNASCHII 2190 -11541300 173346 conserved hypothetical protein mj0115 (cl:methanococcus jannaschii conserved hypothetical protein mj0115) (db:pir2.dat) (mp:rev113249-112782) C64314 C64314 Methanococcus jannaschii 2190 -11541300 246549 mj0115 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to gb:s61233 pid:385925 gb:ae000666 percent) (le:1152) (re:1619) (di:complement) U67469 U67469 g1498882 Methanococcus jannaschii 2190 -11541300 6500737442 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0115 MJ0115 Methanococcus jannaschii 2190 -11541300

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933913	20968	43124	348	115

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933937	20969	43125	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933945	20970	43126	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933954	20971	43127	648	216

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933965	20972	43128	768	255

Description

5000698527 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0116 MJ0116 Methanococcus jannaschii 2190 -11541301 118792 mj0116 (de:hypothetical protein mj0116) (db:swissprot) Y116_METJA Q57580 METHANOCOCCUS JANNASCHII 2190 -11541301 173347 conserved hypothetical protein mj0116 (cl:methanococcus jannaschii conserved hypothetical protein mj0116) (db:pir2.dat) (mp:rev113931-113254) D64314 D64314 Methanococcus jannaschii 2190 -11541301 246550 mj0116 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 46.70;) (le:1624) (re:2301) (di:complement) U67469 U67469 g1498883 Methanococcus jannaschii 2190 -11541301 6500737443 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0116 MJ0116 Methanococcus jannaschii 2190 -11541301

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933978	20973	43129	360	119

Description

6500737444 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0119 MJ0119 Methanococcus jannaschii 2190 -11541302 118793 mj0119 (de:hypothetical protein mj0119) (db:swissprot) Y119_METJA Q57583 METHANOCOCCUS JANNASCHII 2190 -11541302 173348 hypothetical protein mj0119 (db:pir2.dat) (mp:rev116397-115723) G64314 G64314 Methanococcus jannaschii 2190 -11541302 246553 mj0119 carbon monoxide dehydrogenase gamma subunit (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:similar to pid:1002692 sp:q50539 percent identity:) (le:4093) (re:4767) (di:complement) U67469 U67469 g1498886 Methanococcus jannaschii 2190 -11541302

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933979	20974	43130	528	175

Description

5000698528 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0123 MJ0123 Methanococcus jannaschii 2190 -11541303 118795 mj0123 (de:hypothetical protein mj0123) (db:swissprot) Y123_METJA Q57587 METHANOCOCCUS JANNASCHII 2190 -11541303 173350 hypothetical protein mj0123 (db:pir2.dat) (mp:rev119524-119192) C64315 C64315 Methanococcus jannaschii 2190 -11541303 246557 mj0123 m. jannaschii predicted coding region mj0123 (db:genpept-bct1) (de:methanococcus jannaschii section 11 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7562) (re:7894) (di:complement) U67469 U67469 g1498890 Methanococcus jannaschii 2190 -11541303 6500737445 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0123 MJ0123 Methanococcus jannaschii 2190 -11541303

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933988	20975	43131	438	145

Description

5000698533 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0129 MJ0129 Methanococcus jannaschii 2190 -11541304 118801 mj0129 (de:hypothetical protein mj0129) (db:swissprot) Y129_METJA Q57593 METHANOCOCCUS JANNASCHII 2190 -11541304 173355 hypothetical protein mj0129 (cl:conserved hypothetical protein mj0129) (db:pir2.dat) (mp:for124487-124999) A64316 A64316 Methanococcus jannaschii 2190 -11541304 246563 mj0129 m. jannaschii predicted coding region mj0129 (db:genpept-bct1) (de:methanococcus jannaschii section 12 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:98) (re:610) (di:direct) U67470 U67470 g1498897 Methanococcus jannaschii 2190 -11541304 6500737446 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0129 MJ0129 Methanococcus jannaschii 2190 -11541304

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933998	20976	43132	378	125

Description

5000698534 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0131 MJ0131 Methanococcus jannaschii 2190 -11541305 118803 mj0131 (de:hypothetical protein mj0131) (db:swissprot) Y131_METJA Q57595 METHANOCOCCUS JANNASCHII 2190 -11541305 173356 hypothetical protein mj0131 (db:pir2.dat) (mp:rev126783-126472) C64316 C64316 Methanococcus jannaschii 2190 -11541305 246565 mj0131 m. jannaschii predicted coding region mj0131 (db:genpept-bct1) (de:methanococcus jannaschii section 12 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2082) (re:2393) (di:complement) U67470 U67470 g1498899 Methanococcus jannaschii 2190 -11541305 6500737447 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0131 MJ0131 Methanococcus jannaschii 2190 -11541305

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501933999	20977	43133	261	87

Description

6500737448 conserved hypothetical protein:endonuclease iv (gtcfc:14.1) (ec:3.1.21.2) (keggfc:14.1) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0133 MJ0133 Methanococcus jannaschii 2190 -11541306 118805 mj0133 (de:hypothetical protein mj0133) (db:swissprot) Y133_METJA Q57597 METHANOCOCCUS JANNASCHII 2190 -11541306 173357 hypothetical protein mj0133 (cl:methanobacterium thermoautotrophicum endonuclease iv) (db:pir2.dat) (mp:rev129427-128606) E64316 E64316 Methanococcus jannaschii 2190 -11541306 246567 mj0133 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 12 of 150 of the complete genome.) (nt:similar to gp:1707762 percent identity: 33.83;) (le:4216) (re:5037) (di:complement) U67470 U67470 g1498901 Methanococcus jannaschii 2190 -11541306 5000698535 (de:(mj0133) (pn:hypothetical protein mj0133:hypothetical protein) (gtcfc:13.7:14.1) (ec:) (y133_metja) (keggfc:11.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii)) MJ0133 MJ0133 Methanococcus jannaschii 2190 10061167

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934003	20978	43134	273	90

Description

6500737449 hypothetical protein gp:u00017_21:protein-l-isoaspartate methyltransferase homolog (gtcfc:14.1) (ec:2.1.1.77) (keggfc:14.1) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0134 MJ0134 Methanococcus jannaschii 2190 -11541307 118806 mj0134 (de:hypothetical protein mj0134) (db:swissprot) Y134_METJA Q57598 METHANOCOCCUS JANNASCHII 2190 -11541307 173208 hypothetical protein homolog mj0134 (db:pir2.dat) (mp:rev130414-129566) F64316 F64316 Methanococcus jannaschii 2190 -11541307 246568 mj0134 l-isoaspartyl protein carboxyl methyltransferase (db:genpept-bct1) (de:methanococcus jannaschii section 12 of 150 of the complete genome.) (nt:similar to gb:u00017 pid:466999 percent identity:) (le:5176) (re:6024) (di:complement) U67470 U67470 g1590899 Methanococcus jannaschii 2190 -11541307 5000698536 (de:(mj0134) (pn:hypothetical protein mj0134:hypothetical protein u00017_21) (gtcfc:13.7:14.1) (ec:) (y134_metja) (keggfc:11.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii)) MJ0134 MJ0134 Methanococcus jannaschii 2190 10061168

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934037	20979	43135	552	184

Description

5000698537 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0136 MJ0136 Methanococcus jannaschii 2190 -11541308 120765 mj0136 (de:hypothetical protein mj0136) (db:swissprot) Y136_METJA Q57600 METHANOCOCCUS JANNASCHII 2190 -11541308 173209 conserved hypothetical protein mj0136 (cl:conserved hypothetical protein mj0136) (db:pir1.dat) (mp:for131469-132554) H64316 H64316 Methanococcus jannaschii 2190 -11541308 246570 mj0136 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 12 of 150 of the complete genome.) (nt:similar to sp:p14028 gb:x15972 pid:44790 percent) (le:7079) (re:8164) (di:direct) U67470 U67470 g1498904 Methanococcus jannaschii 2190 -11541308 6500737450 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0136 MJ0136 Methanococcus jannaschii 2190 -11541308

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934039	20980	43136	273	91

Description

5000699415 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0137 MJ0137 Methanococcus jannaschii 2190 -11541309 118808 mj0137 (de:hypothetical protein mj0137) (db:swissprot) Y137_METJA Q57601 METHANOCOCCUS JANNASCHII 2190 -11541309 173358 hypothetical protein mj0137 (db:pir2.dat) (mp:rev134976-134116) A64317 A64317 Methanococcus jannaschii 2190 -11541309 246571 mj0137 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 13 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 69.85;) (le:120) (re:980) (di:complement) U67471 U67471 g1592268 Methanococcus jannaschii 2190 -11541309 6500737451 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0137 MJ0137 Methanococcus jannaschii 2190 -11541309

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934043	20981	43137	192	64

Description

5000698538 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0140 MJ0140 Methanococcus jannaschii 2190 -11541310 118811 mj0140 (de:hypothetical protein mj0140) (db:swissprot) Y140_METJA Q57605 METHANOCOCCUS JANNASCHII 2190 -11541310 173362 hypothetical protein mj0140 (db:pir2.dat) (mp:for138922-139542) E64317 E64317 Methanococcus jannaschii 2190 -11541310 246575 mj0140 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 13 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 30.35;) (le:4926) (re:5546) (di:direct) U67471 U67471 g1590903 Methanococcus jannaschii 2190 -11541310 6500737452 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0140 MJ0140 Methanococcus jannaschii 2190 -11541310

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934044	20982	43138	576	191

Description

5000698541 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0144 MJ0144 Methanococcus jannaschii 2190 -11541311 118814 mj0144 (de:hypothetical protein mj0144) (db:swissprot) Y144_METJA Q57608 METHANOCOCCUS JANNASCHII 2190 -11541311 173210 hypothetical protein homolog mj0144 (cl:conserved hypothetical protein mj0144) (db:pir2.dat) (mp:rev142172-141396) A64318 A64318 Methanococcus jannaschii 2190 -11541311 246579 mj0144 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 13 of 150 of the complete genome.) (nt:similar to gb:s61233 pid:385923 gb:ae000666 percent) (le:7400) (re:8176) (di:complement) U67471 U67471 g1590906 Methanococcus jannaschii 2190 -11541311 6500737453 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0144 MJ0144 Methanococcus jannaschii 2190 -11541311

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934051	20983	43139	213	71

Description

GTC ORF with score 187 to: (sr:neurospora crassa (strain:acr-2(kh2)) dna, clone_lib:cosmid pdc10) (db:genpept-pln1) (de:neurospora crassa dna for thiamine-4, partial cds.) (nt:protein sequence is in conflict with the conceptual) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934056	20984	43140	804	268

Description

5000698542 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0145 MJ0145 Methanococcus jannaschii 2190 -11541312 173365 hypothetical protein mj0145 (db:pir2.dat) (mp:rev142991-142185) B64318 B64318 Methanococcus jannaschii 2190 -11541312 118815 mj0145 (de:hypothetical protein mj0145) (db:swissprot) Y145_METJA Q57609 METHANOCOCCUS JANNASCHII 2190 -11541312 6500737454 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0145 MJ0145 Methanococcus jannaschii 2190 -11541312 246580 mju67471 (le:142185) (re:142991) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0145 gn:mj0145 le:8189 re:8995 di:complement nt:identified by genemark; putative) U67471 U67471 g1498914 Methanococcus jannaschii 2190 -11541312

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934064	20985	43141	507	168

Description

5000698544 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0147 MJ0147 Methanococcus jannaschii 2190 -11541313 118935 mj0147 (de:hypothetical atp-binding protein mj0147) (db:swissprot) Y147_METJA Q57611 METHANOCOCCUS JANNASCHII 2190 -11541313 173367 hypothetical protein mj0147 (db:pir2.dat) (mp:rev144813-143698) D64318 D64318 Methanococcus jannaschii 2190 -11541313 246582 mj0147 m. jannaschii predicted coding region mj0147 (db:genpept-bct1) (de:methanococcus jannaschii section 14 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:170) (re:1285) (di:complement) U67472 U67472 g1590908 Methanococcus jannaschii 2190 -11541313 6500737455 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0147 MJ0147 Methanococcus jannaschii 2190 -11541313

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934065	20986	43142	945	315

Description

GTC ORF with score 113 to: (sr:human subject "j.j." peripheral blood leukocytes) (db:genpept-pri2) (de:prb4 (prb4m po-)=parotid 'o' protein {exon 3} (human, peripheralblood leukocytes, subject 'j.j.', genomic mutant, 753 nt).) (nt:salivary proline-rich...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934085	20987	43143	738	246

Description

5000698545 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0149 MJ0149 Methanococcus jannaschii 2190 -11541314 500684975 mj0149 (de:hypothetical protein mj0149) (db:swissprot) Y149_METJA Q57613 METHANOCOCCUS JANNASCHII 2190 -11541314 173368 hypothetical protein mj0149 (db:pir2.dat) (mp:rev146003-145827) F64318 F64318 Methanococcus jannaschii 2190 -11541314 246584 mj0149 m. jannaschii predicted coding region mj0149 (db:genpept-bct1) (de:methanococcus jannaschii section 14 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2299) (re:2475) (di:complement) U67472 U67472 g1498920 Methanococcus jannaschii 2190 -11541314 6500737456 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0149 MJ0149 Methanococcus jannaschii 2190 -11541314

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934089	20988	43144	252	83

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934091	20989	43145	183	60

Description

5000698546 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0150 MJ0150 Methanococcus jannaschii 2190 -11541315 500684976 mj0150 (de:hypothetical protein mj0150) (db:swissprot) Y150_METJA Q57614 METHANOCOCCUS JANNASCHII 2190 -11541315 173369 hypothetical protein mj0150 (db:pir2.dat) (mp:for146069-146590) G64318 G64318 Methanococcus jannaschii 2190 -11541315 246585 mj0150 m. jannaschii predicted coding region mj0150 (db:genpept-bct1) (de:methanococcus jannaschii section 14 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2541) (re:3062) (di:direct) U67472 U67472 g1498921 Methanococcus jannaschii 2190 -11541315 6500737457 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0150 MJ0150 Methanococcus jannaschii 2190 -11541315

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934093	20990	43146	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934094	20991	43147	183	60

Description

5000698548 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0157 MJ0157 Methanococcus jannaschii 2190 -11541316 118816 mj0157 (de:hypothetical protein mj0157) (db:swissprot) Y157_METJA Q57621 METHANOCOCCUS JANNASCHII 2190 -11541316 173371 hypothetical protein mj0157 (db:pir2.dat) (mp:for159798-160088) F64319 F64319 Methanococcus jannaschii 2190 -11541316 246592 mj0157 m. jannaschii predicted coding region mj0157 (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2099) (re:2389) (di:direct) U67473 U67473 g1592269 Methanococcus jannaschii 2190 -11541316 6500737458 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0157 MJ0157 Methanococcus jannaschii 2190 -11541316

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934096	20992	43148	315	104

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934100	20993	43149	765	254

Description

5000698550 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0159 MJ0159 Methanococcus jannaschii 2190 -11541317 118818 mj0159 (de:hypothetical protein mj0159) (db:swissprot) Y159_METJA Q57623 METHANOCOCCUS JANNASCHII 2190 -11541317 173373 hypothetical protein mj0159 (db:pir2.dat) (mp:rev163055-161427) H64319 H64319 Methanococcus jannaschii 2190 -11541317 246594 mj0159 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 36.03;) (le:3728) (re:5356) (di:complement) U67473 U67473 g1590916 Methanococcus jannaschii 2190 -11541317 6500737459 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0159 MJ0159 Methanococcus jannaschii 2190 -11541317

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934106	20994	43150	522	174

Description

GTC ORF with score 558 to: (sr:neurospora crassa (individual_isolate 740r231a) (library: lambd) (db:genpept-pln1) (ec:4.1.1.1) (de:neurospora crassa pyruvate decarboxylase (cfp) mrna, complete cds.) (nt:59 kda) (le:76) (re:1788) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934130	20995	43151	309	102

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934131	20996	43152	486	162

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934140	20997	43153	609	203

Description

5000698271 pet112 protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0160 MJ0160 Methanococcus jannaschii 2190 -11541318 120752 mj0160 (de:hypothetical protein mj0160) (db:swissprot) Y160_METJA Q57624 METHANOCOCCUS JANNASCHII 2190 -11541318 174402 pet112 homolog (cl:pet112 protein) (db:pir2.dat) (mp:rev164511-163093) A64320 A64320 Methanococcus jannaschii 2190 -11541318 246595 mj0160 glu-trna amidotransferase gatb (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:similar to sp:p33893 pid:347493 pid:496701) (le:5394) (re:6812) (di:complement) U67473 U67473 g1590917 Methanococcus jannaschii 2190 -11541318 6500737460 pet112 protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0160 MJ0160 Methanococcus jannaschii 2190 -11541318

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934157	20998	43154	555	184

Description

5000698552 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0163 MJ0163 Methanococcus jannaschii 2190 -11541319 118820 mj0163 (de:hypothetical protein mj0163) (db:swissprot) Y163_METJA Q57627 METHANOCOCCUS JANNASCHII 2190 -11541319 173374 hypothetical protein mj0163 (db:pir2.dat) (mp:rev167378-166815) D64320 D64320 Methanococcus jannaschii 2190 -11541319 246598 mj0163 m. jannaschii predicted coding region mj0163 (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9116) (re:9679) (di:complement) U67473 U67473 g1498935 Methanococcus jannaschii 2190 -11541319 6500737461 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0163 MJ0163 Methanococcus jannaschii 2190 -11541319

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934165	20999	43155	270	89

Description

5000698553 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0164 MJ0164 Methanococcus jannaschii 2190 -11541320 118821 mj0164 (de:hypothetical protein mj0164) (db:swissprot) Y164_METJA Q57628 METHANOCOCCUS JANNASCHII 2190 -11541320 173375 hypothetical protein mj0164 (db:pir2.dat) (mp:rev168614-167427) E64320 E64320 Methanococcus jannaschii 2190 -11541320 246599 mj0164 m. jannaschii predicted coding region mj0164 (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9728) (re:10915) (di:complement) U67473 U67473 g1498936 Methanococcus jannaschii 2190 -11541320 6500737462 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0164 MJ0164 Methanococcus jannaschii 2190 -11541320

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934170	21000	43156	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934171	21001	43157	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934188	21002	43158	603	201

Description

5000698554 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0165 MJ0165 Methanococcus jannaschii 2190 -11541321 5500686284 mj0165 (de:hypothetical protein mj0165) (db:swissprot) Y165_METJA Q57629 METHANOCOCCUS JANNASCHII 2190 -11541321 173376 hypothetical protein mj0165 (cl:conserved hypothetical protein mj0165:phosphoribosylaminoimidazole carboxylase catalytic chain homology) (db:pir2.dat) (mp:rev169394-168624) F64320 F64320 Methanococcus jannaschii 2190 -11541321 246600 mj0165 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:similar to gp:1653798 percent identity: 43.43;) (le:10925) (re:11695) (di:complement) U67473 U67473 g1498937 Methanococcus jannaschii 2190 -11541321 6500737463 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0165 MJ0165 Methanococcus jannaschii 2190 -11541321

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934191	21003	43159	249	83

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934212	21004	43160	456	152

Description

5000698555 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0166 MJ0166 Methanococcus jannaschii 2190 -11541322 118822 mj0166 (de:hypothetical protein mj0166) (db:swissprot) Y166_METJA Q57630 METHANOCOCCUS JANNASCHII 2190 -11541322 173377 hypothetical protein mj0166 (db:pir2.dat) (mp:rev170194-169427) G64320 G64320 Methanococcus jannaschii 2190 -11541322 246601 mj0166 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 15 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 31.97;) (le:11728) (re:12495) (di:complement) U67473 U67473 g1498938 Methanococcus jannaschii 2190 -11541322 6500737464 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0166 MJ0166 Methanococcus jannaschii 2190 -11541322

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934220	21005	43161	294	98

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934226	21006	43162	477	158

Description

5000698556 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0170 MJ0170 Methanococcus jannaschii 2190 -11541323 121746 mj0170 (de:hypothetical protein mj0170) (db:swissprot) Y170_METJA Q57634 METHANOCOCCUS JANNASCHII 2190 -11541323 173211 hypothetical protein homolog mj0170 (cl:conserved hypothetical protein mj0170) (db:pir2.dat) (mp:rev173225-172173) C64321 C64321 Methanococcus jannaschii 2190 -11541323 246605 mj0170 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to gp:1787591 percent identity: 32.41;) (le:1450) (re:2502) (di:complement) U67474 U67474 g1590923 Methanococcus jannaschii 2190 -11541323 6500737465 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0170 MJ0170 Methanococcus jannaschii 2190 -11541323

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934234	21007	43163	210	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934239	21008	43164	189	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934245	21009	43165	846	281

Description

5000698557 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0173 MJ0173 Methanococcus jannaschii 2190 -11541324 118824 mj0173 (de:hypothetical protein mj0173) (db:swissprot) Y173_METJA Q57637 METHANOCOCCUS JANNASCHII 2190 -11541324 173378 conserved hypothetical protein mj0173 (cl:methanococcus jannaschii conserved hypothetical protein mj0173) (db:pir2.dat) (mp:for175871-176344) F64321 F64321 Methanococcus jannaschii 2190 -11541324 246608 mj0173 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 35.59;) (le:5148) (re:5621) (di:direct) U67474 U67474 g1498946 Methanococcus jannaschii 2190 -11541324 6500737466 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0173 MJ0173 Methanococcus jannaschii 2190 -11541324

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934249	21010	43166	186	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934252	21011	43167	189	63

Description

5000698558 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0175 MJ0175 Methanococcus jannaschii 2190 -11541325 118826 mj0175 (de:hypothetical protein mj0175) (db:swissprot) Y175_METJA Q57639 METHANOCOCCUS JANNASCHII 2190 -11541325 173379 hypothetical protein mj0175 (db:pir2.dat) (mp:rev178140-177472) H64321 H64321 Methanococcus jannaschii 2190 -11541325 246610 mj0175 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 16 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 33.71;) (le:6749) (re:7417) (di:complement) U67474 U67474 g1590927 Methanococcus jannaschii 2190 -11541325 6500737467 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0175 MJ0175 Methanococcus jannaschii 2190 -11541325

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934259	21012	43168	201	66

Description

5000698559 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0181 MJ0181 Methanococcus jannaschii 2190 -11541326 118827 mj0181 (de:hypothetical protein mj0181) (db:swissprot) Y181_METJA Q57640 METHANOCOCCUS JANNASCHII 2190 -11541326 173380 hypothetical protein mj0181 (db:pir2.dat) (mp:rev182655-181915) F64322 F64322 Methanococcus jannaschii 2190 -11541326 246616 mj0181 m. jannaschii predicted coding region mj0181 (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:585) (re:1325) (di:complement) U67475 U67475 g1590932 Methanococcus jannaschii 2190 -11541326 6500737468 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0181 MJ0181 Methanococcus jannaschii 2190 -11541326

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934266	21013	43169	564	188

Description

5000698560 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0182 MJ0182 Methanococcus jannaschii 2190 -11541327 118828 mj0182 (de:hypothetical protein mj0182) (db:swissprot) Y182_METJA Q57641 METHANOCOCCUS JANNASCHII 2190 -11541327 173381 hypothetical protein mj0182 (db:pir2.dat) (mp:rev183311-182727) G64322 G64322 Methanococcus jannaschii 2190 -11541327 246617 mj0182 m. jannaschii predicted coding region mj0182 (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1397) (re:1981) (di:complement) U67475 U67475 g1498956 Methanococcus jannaschii 2190 -11541327 6500737469 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0182 MJ0182 Methanococcus jannaschii 2190 -11541327

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934275	21014	43170	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934290	21015	43171	261	86

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934299	21016	43172	588	195

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934308	21017	43173	216	71

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934309	21018	43174	1044	348

Description

5000698561 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0183 MJ0183 Methanococcus jannaschii 2190 -11541328 118829 mj0183 (de:hypothetical protein mj0183) (db:swissprot) Y183_METJA Q57642 METHANOCOCCUS JANNASCHII 2190 -11541328 173382 hypothetical protein mj0183 (db:pir2.dat) (mp:rev183491-183345) H64322 H64322 Methanococcus jannaschii 2190 -11541328 246618 mj0183 m. jannaschii predicted coding region mj0183 (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2015) (re:2161) (di:complement) U67475 U67475 g1498957 Methanococcus jannaschii 2190 -11541328 6500737470 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0183 MJ0183 Methanococcus jannaschii 2190 -11541328

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934315	21019	43175	375	125

Description

5000698562 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0184 MJ0184 Methanococcus jannaschii 2190 -11541329 118830 mj0184 (de:hypothetical protein mj0184) (db:swissprot) Y184_METJA Q57643 METHANOCOCCUS JANNASCHII 2190 -11541329 173383 hypothetical protein mj0184 (db:pir2.dat) (mp:for183597-183830) A64323 A64323 Methanococcus jannaschii 2190 -11541329 246619 mj0184 m. jannaschii predicted coding region mj0184 (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2267) (re:2500) (di:direct) U67475 U67475 g1592273 Methanococcus jannaschii 2190 -11541329 6500737471 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0184 MJ0184 Methanococcus jannaschii 2190 -11541329

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934316	21020	43176	318	105

Description

5000698563 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0185 MJ0185 Methanococcus jannaschii 2190 -11541330 118831 mj0185 (de:hypothetical protein mj0185) (db:swissprot) Y185_METJA Q57644 METHANOCOCCUS JANNASCHII 2190 -11541330 173384 hypothetical protein mj0185 (db:pir2.dat) (mp:for183886-184035) B64323 B64323 Methanococcus jannaschii 2190 -11541330 246620 mj0185 m. jannaschii predicted coding region mj0185 (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2556) (re:2705) (di:direct) U67475 U67475 g1498959 Methanococcus jannaschii 2190 -11541330 6500737472 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0185 MJ0185 Methanococcus jannaschii 2190 -11541330

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934346	21021	43177	540	179

Description

5000698564 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0187 MJ0187 Methanococcus jannaschii 2190 -11541331 118832 mj0187 (de:hypothetical protein mj0187) (db:swissprot) Y187_METJA Q57646 METHANOCOCCUS JANNASCHII 2190 -11541331 173385 hypothetical protein mj0187 (db:pir2.dat) (mp:rev185874-185437) D64323 D64323 Methanococcus jannaschii 2190 -11541331 246622 mj0187 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 17 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 30.56;) (le:4107) (re:4544) (di:complement) U67475 U67475 g1498961 Methanococcus jannaschii 2190 -11541331 6500737473 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0187 MJ0187 Methanococcus jannaschii 2190 -11541331

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934357	21022	43178	351	116

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934365	21023	43179	798	266

Description

5000698565 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0198 MJ0198 Methanococcus jannaschii 2190 -11541332 500684977 mj0198 (de:hypothetical protein mj0198) (db:swissprot) Y198_METJA Q57651 METHANOCOCCUS JANNASCHII 2190 -11541332 173387 hypothetical protein mj0198 (db:pir2.dat) (mp:for191318-192262) G64324 G64324 Methanococcus jannaschii 2190 -11541332 246633 mj0198 m. jannaschii predicted coding region mj0198 (db:genpept-bct1) (de:methanococcus jannaschii section 18 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:126) (re:1070) (di:direct) U67476 U67476 g1592276 Methanococcus jannaschii 2190 -11541332 6500737474 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0198 MJ0198 Methanococcus jannaschii 2190 -11541332

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934366	21024	43180	459	152

Description

5000698567 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0202 MJ0202 Methanococcus jannaschii 2190 -11541333 500684978 mj0202 (de:hypothetical protein mj0202) (db:swissprot) Y202_METJA Q57655 METHANOCOCCUS JANNASCHII 2190 -11541333 173389 conserved hypothetical protein mj0202 (cl:methanococcus jannaschii conserved hypothetical protein mj0202) (db:pir2.dat) (mp:for193543-194457) C64325 C64325 Methanococcus jannaschii 2190 -11541333 246637 mj0202 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 18 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 40.14;) (le:2351) (re:3265) (di:direct) U67476 U67476 g1590945 Methanococcus jannaschii 2190 -11541333 6500737475 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0202 MJ0202 Methanococcus jannaschii 2190 -11541333

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934413	21025	43181	330	110

Description

GTC ORF with score 146 to: (sr:norway rat strain=sprague dawley) (db:genpept-rod) (de:rattus norvegicus cytochrome p450 4f4 (cyp4f4) mrna, complete cds.) (nt:method: conceptual translation supplied by author) (le:141) (re:1709) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934430	21026	43182	462	154

Description

5000698568 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0206 MJ0206 Methanococcus jannaschii 2190 -11541334 500684979 mj0206 (de:hypothetical protein mj0206) (db:swissprot) Y206_METJA Q57659 METHANOCOCCUS JANNASCHII 2190 -11541334 173390 conserved hypothetical protein mj0206 (cl:methanococcus jannaschii conserved hypothetical protein mj0206) (db:pir2.dat) (mp:rev198871-198464) G64325 G64325 Methanococcus jannaschii 2190 -11541334 246641 mj0206 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 18 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 50.38;) (le:7272) (re:7679) (di:complement) U67476 U67476 g1498981 Methanococcus jannaschii 2190 -11541334 6500737476 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0206 MJ0206 Methanococcus jannaschii 2190 -11541334

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934436	21027	43183	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934444	21028	43184	456	151

Description

5000698569 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0207 MJ0207 Methanococcus jannaschii 2190 -11541335 1500686287 mj0207 (de:hypothetical protein mj0207) (db:swissprot) Y207_METJA Q57660 METHANOCOCCUS JANNASCHII 2190 -11541335 173391 hypothetical protein mj0207 (db:pir2.dat) (mp:for198967-199422) H64325 H64325 Methanococcus jannaschii 2190 -11541335 246642 mj0207 m. jannaschii predicted coding region mj0207 (db:genpept-bct1) (de:methanococcus jannaschii section 18 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7775) (re:8230) (di:direct) U67476 U67476 g1498982 Methanococcus jannaschii 2190 -11541335 6500737477 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0207 MJ0207 Methanococcus jannaschii 2190 -11541335

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934445	21029	43185	723	240

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934446	21030	43186	363	120

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934449	21031	43187	483	160

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934457	21032	43188	387	129

Description

5000698570 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0209 MJ0209 Methanococcus jannaschii 2190 -11541336 500684980 mj0209 (de:hypothetical protein mj0209) (db:swissprot) Y209_METJA Q57662 METHANOCOCCUS JANNASCHII 2190 -11541336 173393 hypothetical protein mj0209 (cl:methanococcus jannaschii conserved hypothetical protein mj0209) (db:pir2.dat) (mp:rev200956-200156) B64326 B64326 Methanococcus jannaschii 2190 -11541336 246644 mj0209 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 18 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 54.80;) (le:8964) (re:9764) (di:complement) U67476 U67476 g1498984 Methanococcus jannaschii 2190 -11541336 6500737478 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0209 MJ0209 Methanococcus jannaschii 2190 -11541336

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934467	21033	43189	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934477	21034	43190	204	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934486	21035	43191	246	81

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934510	21036	43192	465	154

Description

5000698571 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0212 MJ0212 Methanococcus jannaschii 2190 -11541337 500684981 mj0212 (de:hypothetical protein mj0212) (db:swissprot) Y212_METJA Q57665 METHANOCOCCUS JANNASCHII 2190 -11541337 173394 hypothetical protein mj0212 (db:pir2.dat) (mp:for203759-204022) E64326 E64326 Methanococcus jannaschii 2190 -11541337 246647 mj0212 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 19 of 150 of the complete genome.) (nt:similar to gp:1679874 percent identity: 59.09;) (le:2785) (re:3048) (di:direct) U67477 U67477 g1498988 Methanococcus jannaschii 2190 -11541337 6500737479 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0212 MJ0212 Methanococcus jannaschii 2190 -11541337

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934523	21037	43193	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934528	21038	43194	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934556	21039	43195	450	150

Description

GTC ORF with score 160 to: (fn:probable transporter of sugars across plasma) (sr:saccharomyces cerevisiae dna) (db:genpept-pln1) (de:saccharomyces cerevisiae sugar transporter (stl1) gene, completecds.) (nt:stl1p) (le:208) (re:1818) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934563	21040	43196	432	143

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934571	21041	43197	396	131

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934575	21042	43198	240	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934582	21043	43199	222	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934592	21044	43200	711	236

Description

5000698572 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0213 MJ0213 Methanococcus jannaschii 2190 -11541338 500684982 mj0213 (de:hypothetical protein mj0213) (db:swissprot) Y213_METJA Q57666 METHANOCOCCUS JANNASCHII 2190 -11541338 173395 hypothetical protein mj0213 (db:pir2.dat) (mp:for204137-204586) F64326 F64326 Methanococcus jannaschii 2190 -11541338 246648 mj0213 m. jannaschii predicted coding region mj0213 (db:genpept-bct1) (de:methanococcus jannaschii section 19 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3163) (re:3612) (di:direct) U67477 U67477 g1498989 Methanococcus jannaschii 2190 -11541338 6500737480 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0213 MJ0213 Methanococcus jannaschii 2190 -11541338

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934594	21045	43201	234	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934597	21046	43202	564	188

Description

5000698573 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0215 MJ0215 Methanococcus jannaschii 2190 -11541339 118835 mj0215 (de:hypothetical protein mj0215) (db:swissprot) Y215_METJA Q57668 METHANOCOCCUS JANNASCHII 2190 -11541339 173396 hypothetical protein mj0215 (db:pir2.dat) (mp:rev205666-205187) H64326 H64326 Methanococcus jannaschii 2190 -11541339 246650 mj0215 m. jannaschii predicted coding region mj0215 (db:genpept-bct1) (de:methanococcus jannaschii section 19 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4213) (re:4692) (di:complement) U67477 U67477 g1590953 Methanococcus jannaschii 2190 -11541339 6500737481 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0215 MJ0215 Methanococcus jannaschii 2190 -11541339

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934605	21047	43203	441	147

Description

5000698574 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0223 MJ0223 Methanococcus jannaschii 2190 -11541340 500684983 mj0223 (de:hypothetical protein mj0223) (db:swissprot) Y223_METJA Q57676 METHANOCOCCUS JANNASCHII 2190 -11541340 173397 conserved hypothetical protein mj0223 (cl:methanococcus jannaschii conserved hypothetical protein mj0223) (db:pir2.dat) (mp:rev214474-214160) H64327 H64327 Methanococcus jannaschii 2190 -11541340 246658 mj0223 m. jannaschii predicted coding region mj0223 (db:genpept-bct1) (de:methanococcus jannaschii section 20 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2916) (re:3230) (di:complement) U67478 U67478 g1590961 Methanococcus jannaschii 2190 -11541340 6500737482 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0223 MJ0223 Methanococcus jannaschii 2190 -11541340

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934608	21048	43204	237	78

Description

5000698575 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0224 MJ0224 Methanococcus jannaschii 2190 -11541341 500684984 mj0224 (de:hypothetical protein mj0224) (db:swissprot) Y224_METJA Q57677 METHANOCOCCUS JANNASCHII 2190 -11541341 173398 hypothetical protein mj0224 (cl:hypothetical protein mj0224) (db:pir2.dat) (mp:rev215072-214563) A64328 A64328 Methanococcus jannaschii 2190 -11541341 246659 mj0224 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 20 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 48.72;) (le:3319) (re:3828) (di:complement) U67478 U67478 g1499001 Methanococcus jannaschii 2190 -11541341 6500737483 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0224 MJ0224 Methanococcus jannaschii 2190 -11541341

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934609	21049	43205	225	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934613	21050	43206	579	193

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934616	21051	43207	294	97

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934621	21052	43208	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934626	21053	43209	399	133

Description

GTC ORF with score 257 to: (sr:aspergillus niger (strain cbs 120.49) dna) (db:genpept-pln2) (ec:3.2.1.55) (de:aspergillus niger alpha-l-arabinofuranosidase (abfa) gene exons1-8, complete cds.) (le:1247:1443:2006:2138) (re:1390:1957:2089:2214) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934629	21054	43210	528	176

Description

5000698576 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0225 MJ0225 Methanococcus jannaschii 2190 -11541342 500684985 mj0225 (de:hypothetical protein mj0225) (db:swissprot) Y225_METJA Q57678 METHANOCOCCUS JANNASCHII 2190 -11541342 173212 conserved hypothetical protein mj0225 (cl:methanococcus jannaschii conserved hypothetical protein mj0225) (db:pir2.dat) (mp:for215452-216243) B64328 B64328 Methanococcus jannaschii 2190 -11541342 246660 mj0225 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 20 of 150 of the complete genome.) (nt:similar to sp:q10634 pid:1340087 percent identity:) (le:4208) (re:4999) (di:direct) U67478 U67478 g1590962 Methanococcus jannaschii 2190 -11541342 6500737484 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0225 MJ0225 Methanococcus jannaschii 2190 -11541342

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934638	21055	43211	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934646	21056	43212	417	139

Description

5000698577 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0226 MJ0226 Methanococcus jannaschii 2190 -11541343 500684986 mj0226 (de:hypothetical protein mj0226) (db:swissprot) Y226_METJA Q57679 METHANOCOCCUS JANNASCHII 2190 -11541343 173213 conserved hypothetical protein mj0226 (cl:methanococcus jannaschii conserved hypothetical protein mj0226) (db:pir2.dat) (mp:for216394-216975) C64328 C64328 Methanococcus jannaschii 2190 -11541343 246661 mj0226 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 20 of 150 of the complete genome.) (nt:similar to sp:p47119 pid:1015749 pid:1019691) (le:5150) (re:5731) (di:direct) U67478 U67478 g1590963 Methanococcus jannaschii 2190 -11541343 6500737485 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0226 MJ0226 Methanococcus jannaschii 2190 -11541343

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934654	21057	43213	384	127

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934655	21058	43214	447	149

Description

5000698578 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0227 MJ0227 Methanococcus jannaschii 2190 -11541344 500684987 mj0227 (de:hypothetical protein mj0227) (db:swissprot) Y227_METJA Q57680 METHANOCOCCUS JANNASCHII 2190 -11541344 173399 hypothetical protein mj0227 (cl:hypothetical protein mj0227) (db:pir2.dat) (mp:for218176-219102) D64328 D64328 Methanococcus jannaschii 2190 -11541344 246662 mj0227 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 20 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 40.07;) (le:6932) (re:7858) (di:direct) U67478 U67478 g1499004 Methanococcus jannaschii 2190 -11541344 6500737486 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0227 MJ0227 Methanococcus jannaschii 2190 -11541344

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934658	21059	43215	267	88

Description

5000698579 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0230 MJ0230 Methanococcus jannaschii 2190 -11541345 500684989 mj0230 (de:hypothetical protein mj0230) (db:swissprot) Y230_METJA Q57683 METHANOCOCCUS JANNASCHII 2190 -11541345 173401 hypothetical protein mj0230 (db:pir2.dat) (mp:rev221404-221141) G64328 G64328 Methanococcus jannaschii 2190 -11541345 246665 mj0230 m. jannaschii predicted coding region mj0230 (db:genpept-bct1) (de:methanococcus jannaschii section 20 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9897) (re:10160) (di:complement) U67478 U67478 g1590964 Methanococcus jannaschii 2190 -11541345 6500737487 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0230 MJ0230 Methanococcus jannaschii 2190 -11541345

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934661	21060	43216	726	241

Description

5000698580 sp:p37869:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0231 MJ0231 Methanococcus jannaschii 2190 -11541346 1500686288 mj0231 (de:hypothetical protein mj0231) (db:swissprot) Y231_METJA Q57684 METHANOCOCCUS JANNASCHII 2190 -11541346 173214 hypothetical protein homolog mj0231 (db:pir2.dat) (mp:rev222794-221544) H64328 H64328 Methanococcus jannaschii 2190 -11541346 246666 mj0231 pmba protein pmba (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:similar to gp:1652621 percent identity: 27.78;) (le:95) (re:1345) (di:complement) U67479 U67479 g1590966 Methanococcus jannaschii 2190 -11541346 6500737488 sp:p37869:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0231 MJ0231 Methanococcus jannaschii 2190 -11541346

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934664	21061	43217	249	83

Description

5000698581 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0233 MJ0233 Methanococcus jannaschii 2190 -11541347 500684990 mj0233 (de:hypothetical protein mj0233) (db:swissprot) Y233_METJA Q57685 METHANOCOCCUS JANNASCHII 2190 -11541347 173402 hypothetical protein mj0233 (cl:hypothetical protein mj0233) (db:pir2.dat) (mp:for224281-225114) B64329 B64329 Methanococcus jannaschii 2190 -11541347 246668 mj0233 m. jannaschii predicted coding region mj0233 (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2832) (re:3665) (di:direct) U67479 U67479 g1590968 Methanococcus jannaschii 2190 -11541347 6500737489 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0233 MJ0233 Methanococcus jannaschii 2190 -11541347

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934665	21062	43218	321	106

Description

5000698582 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0235 MJ0235 Methanococcus jannaschii 2190 -11541348 500684991 mj0235 (de:hypothetical protein mj0235) (db:swissprot) Y235_METJA Q57687 METHANOCOCCUS JANNASCHII 2190 -11541348 173403 hypothetical protein mj0235 (db:pir2.dat) (mp:for226124-226372) D64329 D64329 Methanococcus jannaschii 2190 -11541348 246670 mj0235 m. jannaschii predicted coding region mj0235 (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4675) (re:4923) (di:direct) U67479 U67479 g1499013 Methanococcus jannaschii 2190 -11541348 6500737490 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0235 MJ0235 Methanococcus jannaschii 2190 -11541348

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934679	21063	43219	246	81

Description

5000698176 conserved hypothetical:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0236 MJ0236 Methanococcus jannaschii 2190 -11541349 500684992 mj0236 (de:hypothetical protein mj0236) (db:swissprot) Y236_METJA Q57688 METHANOCOCCUS JANNASCHII 2190 -11541349 173404 hypothetical protein mj0236 (db:pir2.dat) (mp:for226377-227642) E64329 E64329 Methanococcus jannaschii 2190 -11541349 246671 mj0236 conserved hypothetical (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:similar to pid:1419865 pid:984187 percent identity:) (le:4928) (re:6193) (di:direct) U67479 U67479 g1590970 Methanococcus jannaschii 2190 -11541349 6500737491 conserved hypothetical:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0236 MJ0236 Methanococcus jannaschii 2190 -11541349

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934680	21064	43220	660	220

Description

5000698583 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0239 MJ0239 Methanococcus jannaschii 2190 -11541350 500684993 mj0239 (de:hypothetical protein mj0239) (db:swissprot) Y239_METJA Q57691 METHANOCOCCUS JANNASCHII 2190 -11541350 173405 hypothetical protein mj0239 (db:pir2.dat) (mp:for230497-230991) H64329 H64329 Methanococcus jannaschii 2190 -11541350 246674 mj0239 m. jannaschii predicted coding region mj0239 (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9048) (re:9542) (di:direct) U67479 U67479 g1590973 Methanococcus jannaschii 2190 -11541350 6500737492 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0239 MJ0239 Methanococcus jannaschii 2190 -11541350

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934689	21065	43221	210	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934697	21066	43222	306	102

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934708	21067	43223	387	129

Description

5000698584 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0240 MJ0240 Methanococcus jannaschii 2190 -11541351 500684994 mj0240 (de:hypothetical protein mj0240) (db:swissprot) Y240_METJA Q57692 METHANOCOCCUS JANNASCHII 2190 -11541351 173406 hypothetical protein mj0240 (cl:conserved hypothetical protein mj0240) (db:pir2.dat) (mp:rev231618-231091) A64330 A64330 Methanococcus jannaschii 2190 -11541351 246675 mj0240 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 43.43;) (le:9642) (re:10169) (di:complement) U67479 U67479 g1499018 Methanococcus jannaschii 2190 -11541351 6500737493 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0240 MJ0240 Methanococcus jannaschii 2190 -11541351

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934728	21068	43224	651	217

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934733	21069	43225	333	110

Description

5000698585 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0241 MJ0241 Methanococcus jannaschii 2190 -11541352 500684995 mj0241 (de:hypothetical protein mj0241) (db:swissprot) Y241_METJA Q57693 METHANOCOCCUS JANNASCHII 2190 -11541352 173407 hypothetical protein mj0241 (cl:hypothetical protein mj0241) (db:pir2.dat) (mp:rev232062-231625) B64330 B64330 Methanococcus jannaschii 2190 -11541352 246676 mj0241 m. jannaschii predicted coding region mj0241 (db:genpept-bct1) (de:methanococcus jannaschii section 21 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10176) (re:10613) (di:complement) U67479 U67479 g1499019 Methanococcus jannaschii 2190 -11541352 6500737494 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0241 MJ0241 Methanococcus jannaschii 2190 -11541352

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934740	21070	43226	396	131

Description

5000698586 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0243 MJ0243 Methanococcus jannaschii 2190 -11541353 500684996 mj0243 (de:hypothetical protein mj0243) (db:swissprot) Y243_METJA Q57694 METHANOCOCCUS JANNASCHII 2190 -11541353 173408 hypothetical protein mj0243 (cl:hypothetical protein mj0243) (db:pir2.dat) (mp:rev232563-232315) D64330 D64330 Methanococcus jannaschii 2190 -11541353 246678 mj0243 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 47.95;) (le:244) (re:492) (di:complement) U67480 U67480 g1590976 Methanococcus jannaschii 2190 -11541353 6500737495 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0243 MJ0243 Methanococcus jannaschii 2190 -11541353

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934769	21071	43227	480	159

Description

5000698587 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0248 MJ0248 Methanococcus jannaschii 2190 -11541354 500684997 mj0248 (de:hypothetical protein mj0248) (db:swissprot) Y248_METJA Q57698 METHANOCOCCUS JANNASCHII 2190 -11541354 173409 hypothetical protein mj0248 (db:pir2.dat) (mp:for235070-235654) A64331 A64331 Methanococcus jannaschii 2190 -11541354 246683 mj0248 m. jannaschii predicted coding region mj0248 (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2999) (re:3583) (di:direct) U67480 U67480 g1590981 Methanococcus jannaschii 2190 -11541354 6500737496 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0248 MJ0248 Methanococcus jannaschii 2190 -11541354

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934770	21072	43228	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934771	21073	43229	444	147

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934772	21074	43230	459	153

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934787	21075	43231	345	114

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934795	21076	43232	564	187

Description

5000698589 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0255 MJ0255 Methanococcus jannaschii 2190 -11541355 1500686290 mj0255 (de:hypothetical protein mj0255) (db:swissprot) Y255_METJA Q57703 METHANOCOCCUS JANNASCHII 2190 -11541355 173412 hypothetical protein mj0255 (cl:hypothetical protein yitd) (db:pir2.dat) (mp:rev241359-240604) H64331 H64331 Methanococcus jannaschii 2190 -11541355 246690 mj0255 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 22 of 150 of the complete genome.) (nt:similar to gb:x79863 pid:1333734 percent identity:) (le:8533) (re:9288) (di:complement) U67480 U67480 g1499034 Methanococcus jannaschii 2190 -11541355 6500737497 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0255 MJ0255 Methanococcus jannaschii 2190 -11541355

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934804	21077	43233	549	182

Description

5000698590 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0257 MJ0257 Methanococcus jannaschii 2190 -11541356 500685000 mj0257 (de:hypothetical protein mj0257) (db:swissprot) Y257_METJA Q57705 METHANOCOCCUS JANNASCHII 2190 -11541356 173413 hypothetical protein mj0257 (cl:conserved hypothetical protein mj0257) (db:pir2.dat) (mp:for242764-243699) B64332 B64332 Methanococcus jannaschii 2190 -11541356 246692 mj0257 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 23 of 150 of the complete genome.) (nt:similar to sp:q08960 pid:1370430 pid:2326838) (le:111) (re:1046) (di:direct) U67481 U67481 g1590987 Methanococcus jannaschii 2190 -11541356 6500737498 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0257 MJ0257 Methanococcus jannaschii 2190 -11541356

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934818	21078	43234	234	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934831	21079	43235	579	193

Description

5000698591 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0258 MJ0258 Methanococcus jannaschii 2190 -11541357 500685001 mj0258 (de:hypothetical protein mj0258) (db:swissprot) Y258_METJA Q57706 METHANOCOCCUS JANNASCHII 2190 -11541357 173414 hypothetical protein mj0258 (db:pir2.dat) (mp:rev245051-243837) C64332 C64332 Methanococcus jannaschii 2190 -11541357 246693 mj0258 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 23 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 31.77;) (le:1184) (re:2398) (di:complement) U67481 U67481 g1590988 Methanococcus jannaschii 2190 -11541357 6500737499 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0258 MJ0258 Methanococcus jannaschii 2190 -11541357

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934837	21080	43236	264	88

Description

GTC ORF with score 93 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome iii cosmid c1672.) (nt:spcc1672.12c, len:303aa, similarity: s. cerevisiae,) (le:31838:32078:32509) (re:31969:32463:32579) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934840	21081	43237	426	142

Description

5000698592 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0259 MJ0259 Methanococcus jannaschii 2190 -11541358 500685002 mj0259 (de:hypothetical protein mj0259) (db:swissprot) Y259_METJA Q57707 METHANOCOCCUS JANNASCHII 2190 -11541358 173415 hypothetical protein mj0259 (db:pir2.dat) (mp:rev245717-245109) D64332 D64332 Methanococcus jannaschii 2190 -11541358 246694 mj0259 m. jannaschii predicted coding region mj0259 (db:genpept-bct1) (de:methanococcus jannaschii section 23 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2456) (re:3064) (di:complement) U67481 U67481 g1499039 Methanococcus jannaschii 2190 -11541358 6500737500 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0259 MJ0259 Methanococcus jannaschii 2190 -11541358

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934850	21082	43238	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934853	21083	43239	264	88

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934855	21084	43240	288	95

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934860	21085	43241	705	235

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934886	21086	43242	369	122

Description

5000698593 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0261 MJ0261 Methanococcus jannaschii 2190 -11541359 7502853924 mj0261 (de:hypothetical protein mj0261) (db:swissprot) Y261_METJA Q57709 METHANOCOCCUS JANNASCHII 2190 -11541359 173416 hypothetical protein mj0261 (cl:escherichia coli conserved yjjx protein) (db:pir2.dat) (mp:rev247082-246420) F64332 F64332 Methanococcus jannaschii 2190 -11541359 246696 mj0261 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 23 of 150 of the complete genome.) (nt:similar to gb:u14003 sp:p39411 pid:537234 gb:u00096) (le:3767) (re:4429) (di:complement) U67481 U67481 g1499041 Methanococcus jannaschii 2190 -11541359 6500737501 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0261 MJ0261 Methanococcus jannaschii 2190 -11541359

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934890	21087	43243	402	134

Description

5000698594 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0263 MJ0263 Methanococcus jannaschii 2190 -11541360 7502853925 mj0263 (de:hypothetical protein mj0263) (db:swissprot) Y263_METJA O06917 METHANOCOCCUS JANNASCHII 2190 -11541360 173417 hypothetical protein mj0263 (cl:tetratricopeptide repeat homology) (db:pir2.dat) (mp:rev251686-250724) H64332 H64332 Methanococcus jannaschii 2190 -11541360 246698 mj0263 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 23 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 34.57;) (le:8071) (re:9033) (di:complement) U67481 U67481 g1499043 Methanococcus jannaschii 2190 -11541360 6500737502 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0263 MJ0263 Methanococcus jannaschii 2190 -11541360

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934902	21088	43244	276	91

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934903	21089	43245	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934925	21090	43246	342	113

Description

5000698595 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0270 MJ0270 Methanococcus jannaschii 2190 -11541361 7500895017 mj0270 (de:hypothetical protein mj0270) (db:swissprot) Y270_METJA Q57718 METHANOCOCCUS JANNASCHII 2190 -11541361 173418 hypothetical protein mj0270 (db:pir2.dat) (mp:rev256421-256185) G64333 G64333 Methanococcus jannaschii 2190 -11541361 7500895019 mj0270 m. jannaschii predicted coding region mj0270 (db:genpept-bct1) (de:methanococcus jannaschii section 24 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4405) (re:4641) (di:complement) U67482 U67482 g1499051 Methanococcus jannaschii 2190 -11541361 6500737503 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0270 MJ0270 Methanococcus jannaschii 2190 -11541361 246705 mju67482 (le:256185) (re:256421) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0270 gn:mj0270 le:4405 re:4641 di:complement nt:identified by genemark; putative) U67482 U67482 g1499051 Methanococcus jannaschii 2190 -11541361

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934932	21091	43247	813	270

Description

5000698596 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0271 MJ0271 Methanococcus jannaschii 2190 -11541362 7500895024 mj0271 (de:hypothetical protein mj0271) (db:swissprot) Y271_METJA Q57719 METHANOCOCCUS JANNASCHII 2190 -11541362 173419 hypothetical protein mj0271 (db:pir2.dat) (mp:for256902-257444) H64333 H64333 Methanococcus jannaschii 2190 -11541362 7500895026 mj0271 m. jannaschii predicted coding region mj0271 (db:genpept-bct1) (de:methanococcus jannaschii section 24 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5122) (re:5664) (di:direct) U67482 U67482 g1499052 Methanococcus jannaschii 2190 -11541362 6500737504 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0271 MJ0271 Methanococcus jannaschii 2190 -11541362 246706 mju67482 (le:256902) (re:257444) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0271 gn:mj0271 le:5122 re:5664 di:direct nt:identified by genemark; putative) U67482 U67482 g1499052 Methanococcus jannaschii 2190 -11541362

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934941	21092	43248	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934957	21093	43249	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934964	21094	43250	603	201

Description

5000698598 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0273 MJ0273 Methanococcus jannaschii 2190 -11541363 7500895036 mj0273 (de:hypothetical protein mj0273) (db:swissprot) Y273_METJA Q57721 METHANOCOCCUS JANNASCHII 2190 -11541363 173421 hypothetical protein mj0273 (db:pir2.dat) (mp:for258104-258415) B64334 B64334 Methanococcus jannaschii 2190 -11541363 7500895038 mj0273 m. jannaschii predicted coding region mj0273 (db:genpept-bct1) (de:methanococcus jannaschii section 24 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6324) (re:6635) (di:direct) U67482 U67482 g1590998 Methanococcus jannaschii 2190 -11541363 6500737505 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0273 MJ0273 Methanococcus jannaschii 2190 -11541363 246708 mju67482 (le:258104) (re:258415) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0273 gn:mj0273 le:6324 re:6635 di:direct nt:identified by genemark; putative) U67482 U67482 g1590998 Methanococcus jannaschii 2190 -11541363

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934970	21095	43251	867	289

Description

5000698599 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0274 MJ0274 Methanococcus jannaschii 2190 -11541364 7500895044 mj0274 (de:hypothetical protein mj0274) (db:swissprot) Y274_METJA Q57722 METHANOCOCCUS JANNASCHII 2190 -11541364 173422 hypothetical protein mj0274 (db:pir2.dat) (mp:rev260447-258816) C64334 C64334 Methanococcus jannaschii 2190 -11541364 7500895046 mj0274 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 24 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 46.09;) (le:7036) (re:8667) (di:complement) U67482 U67482 g1590999 Methanococcus jannaschii 2190 -11541364 6500737506 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0274 MJ0274 Methanococcus jannaschii 2190 -11541364 246709 mju67482 (le:258816) (re:260447) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0274 gn:mj0274 le:7036 re:8667 di:complement nt:identified by genemark; putative) U67482 U67482 g1590999 Methanococcus jannaschii 2190 -11541364

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501934991	21096	43252	609	203

Description

5000698600 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0275 MJ0275 Methanococcus jannaschii 2190 -11541365 7500895048 mj0275 (de:hypothetical protein mj0275) (db:swissprot) Y275_METJA Q57723 METHANOCOCCUS JANNASCHII 2190 -11541365 173423 hypothetical protein mj0275 (db:pir2.dat) (mp:rev261127-260513) D64334 D64334 Methanococcus jannaschii 2190 -11541365 7500895050 mj0275 m. jannaschii predicted coding region mj0275 (db:genpept-bct1) (de:methanococcus jannaschii section 24 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8733) (re:9347) (di:complement) U67482 U67482 g1591000 Methanococcus jannaschii 2190 -11541365 6500737507 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0275 MJ0275 Methanococcus jannaschii 2190 -11541365 246710 mju67482 (le:260513) (re:261127) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0275 gn:mj0275 le:8733 re:9347 di:complement nt:identified by genemark; putative) U67482 U67482 g1591000 Methanococcus jannaschii 2190 -11541365

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935016	21097	43253	300	99

Description

5000698602 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0280 MJ0280 Methanococcus jannaschii 2190 -11541366 500685007 mj0280 (de:hypothetical protein mj0280) (db:swissprot) Y280_METJA Q57728 METHANOCOCCUS JANNASCHII 2190 -11541366 173424 conserved hypothetical protein mj0280 (cl:methanococcus jannaschii conserved hypothetical protein mj0280) (db:pir2.dat) (mp:for266375-266761) A64335 A64335 Methanococcus jannaschii 2190 -11541366 246715 mj0280 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to sp:p38879 pid:172043 pid:458941) (le:4802) (re:5188) (di:direct) U67483 U67483 g1499062 Methanococcus jannaschii 2190 -11541366 6500737508 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0280 MJ0280 Methanococcus jannaschii 2190 -11541366

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935019	21098	43254	597	199

Description

5000698603 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0281 MJ0281 Methanococcus jannaschii 2190 -11541367 500685008 mj0281 (de:hypothetical protein mj0281) (db:swissprot) Y281_METJA Q57729 METHANOCOCCUS JANNASCHII 2190 -11541367 173425 hypothetical protein mj0281 (cl:conserved hypothetical protein mj0281) (db:pir2.dat) (mp:rev267297-266758) B64335 B64335 Methanococcus jannaschii 2190 -11541367 246716 mj0281 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 47.24;) (le:5185) (re:5724) (di:complement) U67483 U67483 g1591006 Methanococcus jannaschii 2190 -11541367 6500737509 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0281 MJ0281 Methanococcus jannaschii 2190 -11541367

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935029	21099	43255	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935030	21100	43256	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935037	21101	43257	204	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935044	21102	43258	276	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935046	21103	43259	366	121

Description

GTC ORF with score 111 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid c01b10.) (nt:coded for by c. elegans cdna yk13a5.3; coded for by) (le:21746:21937:22236) (re:21886:22181:22380) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935066	21104	43260	402	133

Description

GTC ORF with score 146 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid c07g1.) (nt:coded for by c. elegans cdna yk9h5.5; coded for by) (le:19388:19575:19797) (re:19478:19741:19919) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935072	21105	43261	492	164

Description

5000698604 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0282 MJ0282 Methanococcus jannaschii 2190 -11541368 500685009 mj0282 (de:hypothetical protein mj0282) (db:swissprot) Y282_METJA Q57730 METHANOCOCCUS JANNASCHII 2190 -11541368 173426 conserved hypothetical protein mj0282 (cl:methanococcus jannaschii conserved hypothetical protein mj0282) (db:pir2.dat) (mp:for267341-267790) C64335 C64335 Methanococcus jannaschii 2190 -11541368 246717 mj0282 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 42.31;) (le:5768) (re:6217) (di:direct) U67483 U67483 g1499064 Methanococcus jannaschii 2190 -11541368 6500737510 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0282 MJ0282 Methanococcus jannaschii 2190 -11541368

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935074	21106	43262	522	174

Description

5000698404 nucleotide-binding protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0283 MJ0283 Methanococcus jannaschii 2190 -11541369 500685100 mj0283 (de:hypothetical protein mj0283) (db:swissprot) Y283_METJA Q57731 METHANOCOCCUS JANNASCHII 2190 -11541369 174391 nucleotide-binding protein (cl:conserved probable membrane protein yil003w) (db:pir2.dat) (mp:for267929-268801) D64335 D64335 Methanococcus jannaschii 2190 -11541369 246718 mj0283 nucleotide-binding protein (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to gb:u01833 sp:p53384 pid:515644 percent) (le:6356) (re:7228) (di:direct) U67483 U67483 g1591007 Methanococcus jannaschii 2190 -11541369 6500737511 nucleotide-binding protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0283 MJ0283 Methanococcus jannaschii 2190 -11541369

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935077	21107	43263	552	183

Description

5000698605 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0284 MJ0284 Methanococcus jannaschii 2190 -11541370 500685010 mj0284 (de:hypothetical protein mj0284) (db:swissprot) Y284_METJA Q57732 METHANOCOCCUS JANNASCHII 2190 -11541370 173427 conserved hypothetical protein mj0284 (cl:methanococcus jannaschii conserved hypothetical protein mj0284) (db:pir2.dat) (mp:rev269830-269171) E64335 E64335 Methanococcus jannaschii 2190 -11541370 246719 mj0284 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to gp:1707764 percent identity: 31.50;) (le:7598) (re:8257) (di:complement) U67483 U67483 g1499066 Methanococcus jannaschii 2190 -11541370 6500737512 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0284 MJ0284 Methanococcus jannaschii 2190 -11541370

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935079	21108	43264	522	173

Description

5000698606 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0286 MJ0286 Methanococcus jannaschii 2190 -11541371 500685011 mj0286 (de:hypothetical protein mj0286) (db:swissprot) Y286_METJA Q57734 METHANOCOCCUS JANNASCHII 2190 -11541371 173428 hypothetical protein mj0286 (db:pir2.dat) (mp:rev270849-270496) G64335 G64335 Methanococcus jannaschii 2190 -11541371 246721 mj0286 m. jannaschii predicted coding region mj0286 (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8923) (re:9276) (di:complement) U67483 U67483 g1499068 Methanococcus jannaschii 2190 -11541371 6500737513 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0286 MJ0286 Methanococcus jannaschii 2190 -11541371

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935086	21109	43265	345	115

Description

5000698607 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0287 MJ0287 Methanococcus jannaschii 2190 -11541372 500685012 mj0287 (de:hypothetical protein mj0287) (db:swissprot) Y287_METJA Q57735 METHANOCOCCUS JANNASCHII 2190 -11541372 173429 hypothetical protein mj0287 (db:pir2.dat) (mp:rev271160-270867) H64335 H64335 Methanococcus jannaschii 2190 -11541372 246722 mj0287 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 25 of 150 of the complete genome.) (nt:similar to gb:177117 sp:q57738 pid:1591012 percent) (le:9294) (re:9587) (di:complement) U67483 U67483 g1499069 Methanococcus jannaschii 2190 -11541372 6500737514 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0287 MJ0287 Methanococcus jannaschii 2190 -11541372

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935087	21110	43266	204	67

Description

5000698608 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0288 MJ0288 Methanococcus jannaschii 2190 -11541373 500685013 mj0288 (de:hypothetical protein mj0288) (db:swissprot) Y288_METJA Q57736 METHANOCOCCUS JANNASCHII 2190 -11541373 173430 hypothetical protein mj0288 (db:pir2.dat) (mp:rev271755-271219) A64336 A64336 Methanococcus jannaschii 2190 -11541373 246723 mj0288 m. jannaschii predicted coding region mj0288 (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:55) (re:591) (di:complement) U67484 U67484 g1591010 Methanococcus jannaschii 2190 -11541373 6500737515 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0288 MJ0288 Methanococcus jannaschii 2190 -11541373

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935098	21111	43267	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935105	21112	43268	387	128

Description

5000698609 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0289 MJ0289 Methanococcus jannaschii 2190 -11541374 500685014 mj0289 (de:hypothetical protein mj0289) (db:swissprot) Y289_METJA Q57737 METHANOCOCCUS JANNASCHII 2190 -11541374 173431 hypothetical protein mj0289 (db:pir2.dat) (mp:rev272814-271798) B64336 B64336 Methanococcus jannaschii 2190 -11541374 246724 mj0289 m. jannaschii predicted coding region mj0289 (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:634) (re:1650) (di:complement) U67484 U67484 g1591011 Methanococcus jannaschii 2190 -11541374 6500737516 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0289 MJ0289 Methanococcus jannaschii 2190 -11541374

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935115	21113	43269	396	131

Description

5000698610 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0290 MJ0290 Methanococcus jannaschii 2190 -11541375 500685015 mj0290 (de:hypothetical protein mj0290) (db:swissprot) Y290_METJA Q57738 METHANOCOCCUS JANNASCHII 2190 -11541375 173432 hypothetical protein mj0290 (db:pir2.dat) (mp:rev273753-273118) C64336 C64336 Methanococcus jannaschii 2190 -11541375 246725 mj0290 m. jannaschii predicted coding region mj0290 (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1954) (re:2589) (di:complement) U67484 U67484 g1591012 Methanococcus jannaschii 2190 -11541375 6500737517 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0290 MJ0290 Methanococcus jannaschii 2190 -11541375

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935123	21114	43270	261	86

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935146	21115	43271	489	162

Description

5000698611 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0292 MJ0292 Methanococcus jannaschii 2190 -11541376 500685016 mj0292 (de:hypothetical protein mj0292) (db:swissprot) Y292_METJA Q57740 METHANOCOCCUS JANNASCHII 2190 -11541376 173433 conserved hypothetical protein mj0292 (cl:methanococcus jannaschii conserved hypothetical protein mj0292) (db:pir2.dat) (mp:rev275415-275134) E64336 E64336 Methanococcus jannaschii 2190 -11541376 246727 mj0292 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 45.45;) (le:3970) (re:4251) (di:complement) U67484 U67484 g1591014 Methanococcus jannaschii 2190 -11541376 6500737518 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0292 MJ0292 Methanococcus jannaschii 2190 -11541376

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935147	21116	43272	342	113

Description

5000698612 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0296 MJ0296 Methanococcus jannaschii 2190 -11541377 500685018 mj0296 (de:hypothetical protein mj0296) (db:swissprot) Y296_METJA Q57744 METHANOCOCCUS JANNASCHII 2190 -11541377 173434 hypothetical protein mj0296 (db:pir2.dat) (mp:for279752-280363) A64337 A64337 Methanococcus jannaschii 2190 -11541377 246731 mj0296 m. jannaschii predicted coding region mj0296 (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8588) (re:9199) (di:direct) U67484 U67484 g1591018 Methanococcus jannaschii 2190 -11541377 6500737519 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0296 MJ0296 Methanococcus jannaschii 2190 -11541377

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935149	21117	43273	288	96

Description

GTC ORF with score 170 to: (sr:baker's yeast) (db:genpept-pln1) (de:ykl522=mitochondrial adp/atp carrier protein homolog...ykl527=h1histone homolog (saccharomyces cerevisiae, genomic, 5 genes, 8294nt).) (nt:this sequence comes from fig. 4.5. map ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935157	21118	43274	240	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935161	21119	43275	441	146

Description

5000698613 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0297 MJ0297 Methanococcus jannaschii 2190 -11541378 500685019 mj0297 (de:hypothetical protein mj0297) (db:swissprot) Y297_METJA Q57745 METHANOCOCCUS JANNASCHII 2190 -11541378 173435 hypothetical protein mj0297 (db:pir2.dat) (mp:rev281158-280403) B64337 B64337 Methanococcus jannaschii 2190 -11541378 246732 mj0297 m. jannaschii predicted coding region mj0297 (db:genpept-bct1) (de:methanococcus jannaschii section 26 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9239) (re:9994) (di:complement) U67484 U67484 g1591019 Methanococcus jannaschii 2190 -11541378 6500737520 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0297 MJ0297 Methanococcus jannaschii 2190 -11541378

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935162	21120	43276	210	70

Description

5000698614 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0298 MJ0298 Methanococcus jannaschii 2190 -11541379 500685020 mj0298 (de:hypothetical protein mj0298) (db:swissprot) Y298_METJA Q57746 METHANOCOCCUS JANNASCHII 2190 -11541379 173436 hypothetical protein mj0298 (db:pir2.dat) (mp:for281290-281742) C64337 C64337 Methanococcus jannaschii 2190 -11541379 246733 mj0298 m. jannaschii predicted coding region mj0298 (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:91) (re:543) (di:direct) U67485 U67485 g1592280 Methanococcus jannaschii 2190 -11541379 6500737521 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0298 MJ0298 Methanococcus jannaschii 2190 -11541379

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935163	21121	43277	231	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935168	21122	43278	459	152

Description

5000698615 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0299 MJ0299 Methanococcus jannaschii 2190 -11541380 500685021 mj0299 (de:hypothetical protein mj0299) (db:swissprot) Y299_METJA Q57747 METHANOCOCCUS JANNASCHII 2190 -11541380 172907 16s rrna 5-region hypothetical protein 1 homolog (db:pir2.dat) (mp:rev282927-281758) D64337 D64337 Methanococcus jannaschii 2190 -11541380 246734 mj0299 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to percent identity: 62.05; identified by) (le:559) (re:1728) (di:complement) U67485 U67485 g1591022 Methanococcus jannaschii 2190 -11541380 6500737522 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0299 MJ0299 Methanococcus jannaschii 2190 -11541380

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935177	21123	43279	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935185	21124	43280	861	287

Description

5000698616 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0301 MJ0301 Methanococcus jannaschii 2190 -11541381 500685022 mj0301 (de:hypothetical protein mj0301) (db:swissprot) Y301_METJA Q57749 METHANOCOCCUS JANNASCHII 2190 -11541381 173437 hypothetical protein mj0301 (db:pir2.dat) (mp:rev285101-284217) F64337 F64337 Methanococcus jannaschii 2190 -11541381 246736 mj0301 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 36.79;) (le:3018) (re:3902) (di:complement) U67485 U67485 g1591024 Methanococcus jannaschii 2190 -11541381 6500737523 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0301 MJ0301 Methanococcus jannaschii 2190 -11541381

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935189	21125	43281	525	174

Description

5000698617 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0305 MJ0305 Methanococcus jannaschii 2190 -11541382 1500685934 mj0305 (de:hypothetical protein mj0305) (db:swissprot) Y305_METJA Q57753 METHANOCOCCUS JANNASCHII 2190 -11541382 173439 hypothetical protein mj0305 (db:pir2.dat) (mp:for286594-287781) B64338 B64338 Methanococcus jannaschii 2190 -11541382 246740 mj0305 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to gp:1787876 percent identity: 27.99;) (le:5395) (re:6582) (di:direct) U67485 U67485 g1499089 Methanococcus jannaschii 2190 -11541382 6500737524 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0305 MJ0305 Methanococcus jannaschii 2190 -11541382

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935192	21126	43282	693	231

Description

5000698618 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0306 MJ0306 Methanococcus jannaschii 2190 -11541383 1500686291 mj0306 (de:hypothetical protein mj0306) (db:swissprot) Y306_METJA Q57754 METHANOCOCCUS JANNASCHII 2190 -11541383 173440 hypothetical protein mj0306 (db:pir2.dat) (mp:rev288051-287815) C64338 C64338 Methanococcus jannaschii 2190 -11541383 246741 mj0306 m. jannaschii predicted coding region mj0306 (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6616) (re:6852) (di:complement) U67485 U67485 g1591028 Methanococcus jannaschii 2190 -11541383 6500737525 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0306 MJ0306 Methanococcus jannaschii 2190 -11541383

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935193	21127	43283	504	167

Description

GTC ORF with score 165 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid c44b7.) (nt:coded for by c. elegans cdna yk20f6.3; coded for by) (le:30447:31165:31406) (re:31117:31359:31602) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935197	21128	43284	345	115

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935204	21129	43285	420	139

Description

GTC ORF with score 118 to: (de:(ydl212w) (pn:secretory component protein :endoplasmic reticulum membrane protein) (gn:shr3) (gtcfc:10.7:12.16:12.7) (ec:) (_yeast) (keggfc:11.2) (sgdfc:6.2.0:6.3.0:9.4.0) (db:gtc-saccharomyces cerevisiae))

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935205	21130	43286	507	168

Description

5000698619 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0308 MJ0308 Methanococcus jannaschii 2190 -11541384 1500686292 mj0308 (de:hypothetical protein mj0308) (db:swissprot) Y308_METJA Q57756 METHANOCOCCUS JANNASCHII 2190 -11541384 173441 hypothetical protein mj0308 (db:pir2.dat) (mp:rev289084-288383) E64338 E64338 Methanococcus jannaschii 2190 -11541384 246743 mj0308 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 56.83;) (le:7184) (re:7885) (di:complement) U67485 U67485 g1499092 Methanococcus jannaschii 2190 -11541384 6500737526 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0308 MJ0308 Methanococcus jannaschii 2190 -11541384

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935231	21131	43287	228	76

Description

5000698620 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0310 MJ0310 Methanococcus jannaschii 2190 -11541385 1500686293 mj0310 (de:hypothetical protein mj0310) (db:swissprot) Y310_METJA Q57758 METHANOCOCCUS JANNASCHII 2190 -11541385 173442 conserved hypothetical protein mj0310 (cl:methanococcus jannaschii conserved hypothetical protein mj0714) (db:pir2.dat) (mp:rev290609-290265) G64338 G64338 Methanococcus jannaschii 2190 -11541385 246745 mj0310 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 60.53;) (le:9066) (re:9410) (di:complement) U67485 U67485 g1499094 Methanococcus jannaschii 2190 -11541385 6500737527 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0310 MJ0310 Methanococcus jannaschii 2190 -11541385

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935247	21132	43288	237	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935259	21133	43289	219	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935268	21134	43290	561	186

Description

5000698621 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0311 MJ0311 Methanococcus jannaschii 2190 -11541386 1500686294 mj0311 (de:hypothetical protein mj0311) (db:swissprot) Y311_METJA Q57759 METHANOCOCCUS JANNASCHII 2190 -11541386 173443 hypothetical protein mj0311 (db:pir2.dat) (mp:rev290981-290649) H64338 H64338 Methanococcus jannaschii 2190 -11541386 246746 mj0311 m. jannaschii predicted coding region mj0311 (db:genpept-bct1) (de:methanococcus jannaschii section 27 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9450) (re:9782) (di:complement) U67485 U67485 g1499095 Methanococcus jannaschii 2190 -11541386 6500737528 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0311 MJ0311 Methanococcus jannaschii 2190 -11541386

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935274	21135	43291	198	65

Description

5000698622 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0312 MJ0312 Methanococcus jannaschii 2190 -11541387 1500686295 mj0312 (de:hypothetical protein mj0312) (db:swissprot) Y312_METJA Q57760 METHANOCOCCUS JANNASCHII 2190 -11541387 173444 hypothetical protein mj0312 (db:pir2.dat) (mp:rev291845-291225) A64339 A64339 Methanococcus jannaschii 2190 -11541387 246747 mj0312 m. jannaschii predicted coding region mj0312 (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:147) (re:767) (di:complement) U67486 U67486 g1592281 Methanococcus jannaschii 2190 -11541387 6500737529 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0312 MJ0312 Methanococcus jannaschii 2190 -11541387

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935277	21136	43292	228	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935285	21137	43293	669	223

Description

5000698623 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0314 MJ0314 Methanococcus jannaschii 2190 -11541388 1500686296 mj0314 (de:hypothetical protein mj0314) (db:swissprot) Y314_METJA Q57762 METHANOCOCCUS JANNASCHII 2190 -11541388 173445 hypothetical protein mj0314 (db:pir2.dat) (mp:for293581-294372) C64339 C64339 Methanococcus jannaschii 2190 -11541388 246749 mj0314 m. jannaschii predicted coding region mj0314 (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2503) (re:3294) (di:direct) U67486 U67486 g1591034 Methanococcus jannaschii 2190 -11541388 6500737530 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0314 MJ0314 Methanococcus jannaschii 2190 -11541388

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935301	21138	43294	246	81

Description

5000698624 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0315 MJ0315 Methanococcus jannaschii 2190 -11541389 1500686297 mj0315 (de:hypothetical protein mj0315) (db:swissprot) Y315_METJA Q57763 METHANOCOCCUS JANNASCHII 2190 -11541389 173446 hypothetical protein mj0315 (cl:conserved hypothetical protein mj0315) (db:pir2.dat) (mp:rev294859-294452) D64339 D64339 Methanococcus jannaschii 2190 -11541389 246750 mj0315 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:similar to gp:2293278 percent identity: 43.86;) (le:3374) (re:3781) (di:complement) U67486 U67486 g1591035 Methanococcus jannaschii 2190 -11541389 6500737531 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0315 MJ0315 Methanococcus jannaschii 2190 -11541389

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935309	21139	43295	453	150

Description

5000698625 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0316 MJ0316 Methanococcus jannaschii 2190 -11541390 1500686298 mj0316 (de:hypothetical protein mj0316) (db:swissprot) Y316_METJA Q57764 METHANOCOCCUS JANNASCHII 2190 -11541390 173447 hypothetical protein mj0316 (cl:conserved hypothetical protein mj0316) (db:pir2.dat) (mp:rev295458-294961) E64339 E64339 Methanococcus jannaschii 2190 -11541390 246751 mj0316 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 38.46;) (le:3883) (re:4380) (di:complement) U67486 U67486 g1591036 Methanococcus jannaschii 2190 -11541390 6500737532 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0316 MJ0316 Methanococcus jannaschii 2190 -11541390

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935326	21140	43296	396	131

Description

5000698626 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0317 MJ0317 Methanococcus jannaschii 2190 -11541391 1500686299 mj0317 (de:hypothetical protein mj0317) (db:swissprot) Y317_METJA Q57765 METHANOCOCCUS JANNASCHII 2190 -11541391 173448 hypothetical protein mj0317 (db:pir2.dat) (mp:rev296404-295730) F64339 F64339 Methanococcus jannaschii 2190 -11541391 246752 mj0317 m. jannaschii predicted coding region mj0317 (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4652) (re:5326) (di:complement) U67486 U67486 g1591037 Methanococcus jannaschii 2190 -11541391 6500737533 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0317 MJ0317 Methanococcus jannaschii 2190 -11541391

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935327	21141	43297	210	70

Description

5000698627 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0319 MJ0319 Methanococcus jannaschii 2190 -11541392 1500686300 mj0319 (de:hypothetical protein mj0319) (db:swissprot) Y319_METJA Q57767 METHANOCOCCUS JANNASCHII 2190 -11541392 173449 hypothetical protein mj0319 (db:pir2.dat) (mp:for297612-297905) H64339 H64339 Methanococcus jannaschii 2190 -11541392 246754 mj0319 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 67.02;) (le:6534) (re:6827) (di:direct) U67486 U67486 g1591039 Methanococcus jannaschii 2190 -11541392 6500737534 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0319 MJ0319 Methanococcus jannaschii 2190 -11541392

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935329	21142	43298	666	221

Description

5000698628 conserved hypothetical protein:hypothetical gtp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0320 MJ0320 Methanococcus jannaschii 2190 -11541393 121763 mj0320 (de:hypothetical gtp-binding protein mj0320) (db:swissprot) Y320_METJA Q57768 METHANOCOCCUS JANNASCHII 2190 -11541393 173450 hypothetical protein mj0320 (cl:hypothetical protein mj0320:translation elongation factor tu homology) (db:pir2.dat) (mp:for297989-298648) A64340 A64340 Methanococcus jannaschii 2190 -11541393 246755 mj0320 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:similar to sp:p38424 pid:496558 pid:1770079) (le:6911) (re:7570) (di:direct) U67486 U67486 g1591040 Methanococcus jannaschii 2190 -11541393 6500737535 conserved hypothetical protein:hypothetical gtp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0320 MJ0320 Methanococcus jannaschii 2190 -11541393

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935334	21143	43299	288	95

Description

5000698629 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0321 MJ0321 Methanococcus jannaschii 2190 -11541394 1500686301 mj0321 (de:hypothetical protein 0321) (db:swissprot) Y321_METJA Q57769 METHANOCOCCUS JANNASCHII 2190 -11541394 173451 hypothetical protein mj0321 (db:pir2.dat) (mp:for298675-299043) B64340 B64340 Methanococcus jannaschii 2190 -11541394 246756 mj0321 m. jannaschii predicted coding region mj0321 (db:genpept-bct1) (de:methanococcus jannaschii section 28 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7597) (re:7965) (di:direct) U67486 U67486 g1499106 Methanococcus jannaschii 2190 -11541394 6500737536 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0321 MJ0321 Methanococcus jannaschii 2190 -11541394

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935336	21144	43300	207	68

Description

5000698630 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0325 MJ0325 Methanococcus jannaschii 2190 -11541395 5500686297 mj0325 (de:hypothetical protein mj0325) (db:swissprot) Y325_METJA Q57771 METHANOCOCCUS JANNASCHII 2190 -11541395 173452 hypothetical protein mj0325 (db:pir2.dat) (mp:rev302095-301169) E64340 E64340 Methanococcus jannaschii 2190 -11541395 246759 mj0325 translation factor ef-1 alpha:putative (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:similar to sp:p19486 gb:x53866 pid:48119 percent) (le:203) (re:1129) (di:complement) U67487 U67487 g1592282 Methanococcus jannaschii 2190 -11541395 6500737537 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0325 MJ0325 Methanococcus jannaschii 2190 -11541395

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935343	21145	43301	276	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935352	21146	43302	261	87

Description

5000698631 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0326 MJ0326 Methanococcus jannaschii 2190 -11541396 5500686298 mj0326 (de:hypothetical protein mj0326) (db:swissprot) Y326_METJA Q57772 METHANOCOCCUS JANNASCHII 2190 -11541396 173215 hypothetical protein homolog mj0326 (cl:conserved hypothetical protein hi0125) (db:pir2.dat) (mp:for302245-303555) F64340 F64340 Methanococcus jannaschii 2190 -11541396 246760 mj0326 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p31466 pid:290562 gb:u00096) (le:1279) (re:2589) (di:direct) U67487 U67487 g1591045 Methanococcus jannaschii 2190 -11541396 6500737538 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0326 MJ0326 Methanococcus jannaschii 2190 -11541396

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935369	21147	43303	414	137

Description

5000698632 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0327 MJ0327 Methanococcus jannaschii 2190 -11541397 5500686299 mj0327 (de:hypothetical protein mj0327) (db:swissprot) Y327_METJA Q57773 METHANOCOCCUS JANNASCHII 2190 -11541397 173453 hypothetical protein mj0327 (db:pir2.dat) (mp:for303616-303930) G64340 G64340 Methanococcus jannaschii 2190 -11541397 246761 mj0327 m. jannaschii predicted coding region mj0327 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2650) (re:2964) (di:direct) U67487 U67487 g1591046 Methanococcus jannaschii 2190 -11541397 6500737539 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0327 MJ0327 Methanococcus jannaschii 2190 -11541397

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935370	21148	43304	417	138

Description

GTC ORF with score 261 to: (db:genpept) (ec:2.4.2.10) (de:coccidioides immitis orotidine monophosphate pyrophosphorylase(ura5) gene, complete cds.) (nt:ura5; function was confirmed by complementation of) (le:612) (re:1328) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935382	21149	43305	339	112

Description

5000698633 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0328 MJ0328 Methanococcus jannaschii 2190 -11541398 5500686300 mj0328 (de:hypothetical protein mj0328) (db:swissprot) Y328_METJA Q57774 METHANOCOCCUS JANNASCHII 2190 -11541398 173454 hypothetical protein mj0328 (db:pir2.dat) (mp:rev304755-304315) H64340 H64340 Methanococcus jannaschii 2190 -11541398 246762 mj0328 m. jannaschii predicted coding region mj0328 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3349) (re:3789) (di:complement) U67487 U67487 g1591047 Methanococcus jannaschii 2190 -11541398 6500737540 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0328 MJ0328 Methanococcus jannaschii 2190 -11541398

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935384	21150	43306	534	178

Description

5000698634 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0329 MJ0329 Methanococcus jannaschii 2190 -11541399 5500686301 mj0329 (de:hypothetical protein mj0329) (db:swissprot) Y329_METJA Q57775 METHANOCOCCUS JANNASCHII 2190 -11541399 173455 hypothetical protein mj0329 (db:pir2.dat) (mp:rev306607-304757) A64341 A64341 Methanococcus jannaschii 2190 -11541399 246763 mj0329 m. jannaschii predicted coding region mj0329 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3791) (re:5641) (di:complement) U67487 U67487 g1591048 Methanococcus jannaschii 2190 -11541399 6500737541 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0329 MJ0329 Methanococcus jannaschii 2190 -11541399

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935398	21151	43307	330	109

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935401	21152	43308	417	138

Description

5000698635 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0330 MJ0330 Methanococcus jannaschii 2190 -11541400 5500686302 mj0330 (de:hypothetical protein mj0330) (db:swissprot) Y330_METJA Q57776 METHANOCOCCUS JANNASCHII 2190 -11541400 173456 hypothetical protein mj0330 (db:pir2.dat) (mp:rev308266-306617) B64341 B64341 Methanococcus jannaschii 2190 -11541400 246764 mj0330 m. jannaschii predicted coding region mj0330 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5651) (re:7300) (di:complement) U67487 U67487 g1591049 Methanococcus jannaschii 2190 -11541400 6500737542 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0330 MJ0330 Methanococcus jannaschii 2190 -11541400

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935409	21153	43309	666	222

Description

5000698636 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0331 MJ0331 Methanococcus jannaschii 2190 -11541401 5500686303 mj0331 (de:hypothetical protein mj0331) (db:swissprot) Y331_METJA Q57777 METHANOCOCCUS JANNASCHII 2190 -11541401 173457 hypothetical protein mj0331 (db:pir2.dat) (mp:rev308670-308263) C64341 C64341 Methanococcus jannaschii 2190 -11541401 246765 mj0331 m. jannaschii predicted coding region mj0331 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7297) (re:7704) (di:complement) U67487 U67487 g1591050 Methanococcus jannaschii 2190 -11541401 6500737543 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0331 MJ0331 Methanococcus jannaschii 2190 -11541401

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935420	21154	43310	399	132

Description

5000698637 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0332 MJ0332 Methanococcus jannaschii 2190 -11541402 5500686304 mj0332 (de:hypothetical protein mj0332) (db:swissprot) Y332_METJA Q57778 METHANOCOCCUS JANNASCHII 2190 -11541402 173458 hypothetical protein mj0332 (db:pir2.dat) (mp:rev309007-308675) D64341 D64341 Methanococcus jannaschii 2190 -11541402 246766 mj0332 m. jannaschii predicted coding region mj0332 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7709) (re:8041) (di:complement) U67487 U67487 g1591051 Methanococcus jannaschii 2190 -11541402 6500737544 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0332 MJ0332 Methanococcus jannaschii 2190 -11541402

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935426	21155	43311	537	179

Description

5000698638 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0333 MJ0333 Methanococcus jannaschii 2190 -11541403 5500686305 mj0333 (de:hypothetical protein mj0333) (db:swissprot) Y333_METJA Q57779 METHANOCOCCUS JANNASCHII 2190 -11541403 173459 hypothetical protein mj0333 (db:pir2.dat) (mp:rev309697-309407) E64341 E64341 Methanococcus jannaschii 2190 -11541403 246767 mj0333 m. jannaschii predicted coding region mj0333 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8441) (re:8731) (di:complement) U67487 U67487 g1591052 Methanococcus jannaschii 2190 -11541403 6500737545 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0333 MJ0333 Methanococcus jannaschii 2190 -11541403

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935436	21156	43312	402	134

Description

5000698639 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0334 MJ0334 Methanococcus jannaschii 2190 -11541404 5500686306 mj0334 (de:hypothetical protein mj0334) (db:swissprot) Y334_METJA Q57780 METHANOCOCCUS JANNASCHII 2190 -11541404 173460 hypothetical protein mj0334 (db:pir2.dat) (mp:for309807-310115) F64341 F64341 Methanococcus jannaschii 2190 -11541404 246768 mj0334 m. jannaschii predicted coding region mj0334 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8841) (re:9149) (di:direct) U67487 U67487 g1591053 Methanococcus jannaschii 2190 -11541404 6500737546 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0334 MJ0334 Methanococcus jannaschii 2190 -11541404

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935439	21157	43313	711	236

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935451	21158	43314	432	143

Description

5000698640 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0335 MJ0335 Methanococcus jannaschii 2190 -11541405 5500686307 mj0335 (de:hypothetical protein mj0335) (db:swissprot) Y335_METJA Q57781 METHANOCOCCUS JANNASCHII 2190 -11541405 173461 hypothetical protein mj0335 (db:pir2.dat) (mp:for310179-310922) G64341 G64341 Methanococcus jannaschii 2190 -11541405 246769 mj0335 m. jannaschii predicted coding region mj0335 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9213) (re:9956) (di:direct) U67487 U67487 g1499120 Methanococcus jannaschii 2190 -11541405 6500737547 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0335 MJ0335 Methanococcus jannaschii 2190 -11541405

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935452	21159	43315	243	81

Description

5000698641 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0336 MJ0336 Methanococcus jannaschii 2190 -11541406 5500686308 mj0336 (de:hypothetical protein mj0336) (db:swissprot) Y336_METJA Q57782 METHANOCOCCUS JANNASCHII 2190 -11541406 173462 hypothetical protein mj0336 (db:pir2.dat) (mp:for310932-311291) H64341 H64341 Methanococcus jannaschii 2190 -11541406 246770 mj0336 m. jannaschii predicted coding region mj0336 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9966) (re:10325) (di:direct) U67487 U67487 g1499121 Methanococcus jannaschii 2190 -11541406 6500737548 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0336 MJ0336 Methanococcus jannaschii 2190 -11541406

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935466	21160	43316	285	94

Description

GTC ORF with score 243 to: (sr:acremonium cellulolyticus y-94 (isolate:y-94) dna) (db:genpept) (de:acremonium cellulolyticus y-94 acc2 gene for cellobiohydrolase ii,complete cds.) (le:241:390:517:870:1199) (re:319:458:799:1123:1597) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935467	21161	43317	375	125

Description

GTC ORF with score 371 to: (sr:acremonium cellulolyticus y-94 (isolate:y-94) dna) (db:genpept) (de:acremonium cellulolyticus y-94 acc2 gene for cellobiohydrolase ii,complete cds.) (le:241:390:517:870:1199) (re:319:458:799:1123:1597) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935476	21162	43318	312	103

Description

5000698642 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0337 MJ0337 Methanococcus jannaschii 2190 -11541407 5500686309 mj0337 (de:hypothetical protein mj0337) (db:swissprot) Y337_METJA Q57783 METHANOCOCCUS JANNASCHII 2190 -11541407 173463 hypothetical protein mj0337 (db:pir2.dat) (mp:for311299-312087) A64342 A64342 Methanococcus jannaschii 2190 -11541407 246771 mj0337 m. jannaschii predicted coding region mj0337 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10333) (re:11121) (di:direct) U67487 U67487 g1499122 Methanococcus jannaschii 2190 -11541407 6500737549 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0337 MJ0337 Methanococcus jannaschii 2190 -11541407

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935478	21163	43319	459	152

Description

5000698643 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0338 MJ0338 Methanococcus jannaschii 2190 -11541408 5500686310 mj0338 (de:hypothetical protein mj0338) (db:swissprot) Y338_METJA Q57784 METHANOCOCCUS JANNASCHII 2190 -11541408 173464 hypothetical protein mj0338 (db:pir2.dat) (mp:for312091-312405) B64342 B64342 Methanococcus jannaschii 2190 -11541408 246772 mj0338 m. jannaschii predicted coding region mj0338 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:11125) (re:11439) (di:direct) U67487 U67487 g1591054 Methanococcus jannaschii 2190 -11541408 6500737550 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0338 MJ0338 Methanococcus jannaschii 2190 -11541408

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935479	21164	43320	333	110

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935480	21165	43321	222	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935493	21166	43322	516	172

Description

5000698644 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0339 MJ0339 Methanococcus jannaschii 2190 -11541409 5500686311 mj0339 (de:hypothetical protein mj0339) (db:swissprot) Y339_METJA Q57785 METHANOCOCCUS JANNASCHII 2190 -11541409 173465 hypothetical protein mj0339 (db:pir2.dat) (mp:for312374-312697) C64342 C64342 Methanococcus jannaschii 2190 -11541409 246773 mj0339 m. jannaschii predicted coding region mj0339 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:11408) (re:11731) (di:direct) U67487 U67487 g1499124 Methanococcus jannaschii 2190 -11541409 6500737551 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0339 MJ0339 Methanococcus jannaschii 2190 -11541409

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935508	21167	43323	384	127

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935516	21168	43324	510	169

Description

5000698645 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0340 MJ0340 Methanococcus jannaschii 2190 -11541410 5500686312 mj0340 (de:hypothetical protein mj0340) (db:swissprot) Y340_METJA Q57786 METHANOCOCCUS JANNASCHII 2190 -11541410 173466 hypothetical protein mj0340 (db:pir2.dat) (mp:for312697-313401) D64342 D64342 Methanococcus jannaschii 2190 -11541410 246774 mj0340 m. jannaschii predicted coding region mj0340 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:11731) (re:12435) (di:direct) U67487 U67487 g1499125 Methanococcus jannaschii 2190 -11541410 6500737552 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0340 MJ0340 Methanococcus jannaschii 2190 -11541410

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935533	21169	43325	192	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935535	21170	43326	480	159

Description

5000698646 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0341 MJ0341 Methanococcus jannaschii 2190 -11541411 5500686313 mj0341 (de:hypothetical protein mj0341) (db:swissprot) Y341_METJA Q57787 METHANOCOCCUS JANNASCHII 2190 -11541411 173467 hypothetical protein mj0341 (db:pir2.dat) (mp:for313411-313773) E64342 E64342 Methanococcus jannaschii 2190 -11541411 246775 mj0341 m. jannaschii predicted coding region mj0341 (db:genpept-bct1) (de:methanococcus jannaschii section 29 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:12445) (re:12807) (di:direct) U67487 U67487 g1499126 Methanococcus jannaschii 2190 -11541411 6500737553 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0341 MJ0341 Methanococcus jannaschii 2190 -11541411

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935545	21171	43327	816	271

Description

5000698647 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0342 MJ0342 Methanococcus jannaschii 2190 -11541412 4000708224 mj0342 (de:hypothetical protein mj0342) (db:swissprot) Y342_METJA Q57788 METHANOCOCCUS JANNASCHII 2190 -11541412 173468 hypothetical protein mj0342 (db:pir2.dat) (mp:for313918-314289) F64342 F64342 Methanococcus jannaschii 2190 -11541412 246776 mj0342 m. jannaschii predicted coding region mj0342 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:98) (re:469) (di:direct) U67488 U67488 g1592283 Methanococcus jannaschii 2190 -11541412 6500737554 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0342 MJ0342 Methanococcus jannaschii 2190 -11541412

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935555	21172	43328	303	100

Description

5000698648 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0343 MJ0343 Methanococcus jannaschii 2190 -11541413 4000708225 mj0343 (de:hypothetical protein mj0343) (db:swissprot) Y343_METJA Q57789 METHANOCOCCUS JANNASCHII 2190 -11541413 173469 hypothetical protein mj0343 (db:pir2.dat) (mp:for314261-316810) G64342 G64342 Methanococcus jannaschii 2190 -11541413 246777 mj0343 m. jannaschii predicted coding region mj0343 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:441) (re:2990) (di:direct) U67488 U67488 g1591057 Methanococcus jannaschii 2190 -11541413 6500737555 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0343 MJ0343 Methanococcus jannaschii 2190 -11541413

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935565	21173	43329	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935569	21174	43330	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935575	21175	43331	516	172

Description

5000698649 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0344 MJ0344 Methanococcus jannaschii 2190 -11541414 4000708226 mj0344 (de:hypothetical protein mj0344) (db:swissprot) Y344_METJA Q57790 METHANOCOCCUS JANNASCHII 2190 -11541414 173470 hypothetical protein mj0344 (db:pir2.dat) (mp:for316820-317362) H64342 H64342 Methanococcus jannaschii 2190 -11541414 246778 mj0344 m. jannaschii predicted coding region mj0344 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3000) (re:3542) (di:direct) U67488 U67488 g1591058 Methanococcus jannaschii 2190 -11541414 6500737556 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0344 MJ0344 Methanococcus jannaschii 2190 -11541414

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935581	21176	43332	273	90

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935588	21177	43333	345	114

Description

5000698650 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0345 MJ0345 Methanococcus jannaschii 2190 -11541415 4000708227 mj0345 (de:hypothetical protein mj0345) (db:swissprot) Y345_METJA Q57791 METHANOCOCCUS JANNASCHII 2190 -11541415 173471 hypothetical protein mj0345 (db:pir2.dat) (mp:for317314-318267) A64343 A64343 Methanococcus jannaschii 2190 -11541415 246779 mj0345 m. jannaschii predicted coding region mj0345 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3494) (re:4447) (di:direct) U67488 U67488 g1591059 Methanococcus jannaschii 2190 -11541415 6500737557 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0345 MJ0345 Methanococcus jannaschii 2190 -11541415

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935597	21178	43334	300	100

Description

5000698651 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0346 MJ0346 Methanococcus jannaschii 2190 -11541416 4000708228 mj0346 (de:hypothetical protein mj0346) (db:swissprot) Y346_METJA Q57792 METHANOCOCCUS JANNASCHII 2190 -11541416 173472 hypothetical protein mj0346 (db:pir2.dat) (mp:for318277-318582) B64343 B64343 Methanococcus jannaschii 2190 -11541416 246780 mj0346 m. jannaschii predicted coding region mj0346 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4457) (re:4762) (di:direct) U67488 U67488 g1591060 Methanococcus jannaschii 2190 -11541416 6500737558 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0346 MJ0346 Methanococcus jannaschii 2190 -11541416

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935601	21179	43335	303	100

Description

5000698652 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0347 MJ0347 Methanococcus jannaschii 2190 -11541417 4000708229 mj0347 (de:hypothetical protein mj0347) (db:swissprot) Y347_METJA Q57793 METHANOCOCCUS JANNASCHII 2190 -11541417 173473 hypothetical protein mj0347 (db:pir2.dat) (mp:for318593-319048) C64343 C64343 Methanococcus jannaschii 2190 -11541417 246781 mj0347 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:similar to gp:1788697 percent identity: 39.77;) (le:4773) (re:5228) (di:direct) U67488 U67488 g1591061 Methanococcus jannaschii 2190 -11541417 6500737559 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0347 MJ0347 Methanococcus jannaschii 2190 -11541417

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935605	21180	43336	588	196

Description

5000698653 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0348 MJ0348 Methanococcus jannaschii 2190 -11541418 173474 hypothetical protein mj0348 (db:pir2.dat) (mp:for319611-321998) D64343 D64343 Methanococcus jannaschii 2190 -11541418 4000708230 mj0348 (de:hypothetical protein mj0348) (db:swissprot) Y348_METJA Q57794 METHANOCOCCUS JANNASCHII 2190 -11541418 6500737560 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0348 MJ0348 Methanococcus jannaschii 2190 -11541418 246782 mju67488 (le:319611) (re:321998) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0348 gn:mj0348 le:5791 re:8178 di:direct nt:identified by genemark; putative) U67488 U67488 g1591062 Methanococcus jannaschii 2190 -11541418

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935611	21181	43337	465	154

Description

5000698654 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0349 MJ0349 Methanococcus jannaschii 2190 -11541419 118836 mj0349 (de:hypothetical protein mj0349) (db:swissprot) Y349_METJA Q57795 METHANOCOCCUS JANNASCHII 2190 -11541419 173475 hypothetical protein mj0349 (cl:conserved hypothetical protein mj1074) (db:pir2.dat) (mp:rev322367-322050) E64343 E64343 Methanococcus jannaschii 2190 -11541419 246783 mj0349 m. jannaschii predicted coding region mj0349 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8230) (re:8547) (di:complement) U67488 U67488 g1499135 Methanococcus jannaschii 2190 -11541419 6500737561 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0349 MJ0349 Methanococcus jannaschii 2190 -11541419

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935614	21182	43338	351	116

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935620	21183	43339	246	81

Description

5000698655 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0350 MJ0350 Methanococcus jannaschii 2190 -11541420 4000708231 mj0350 (de:hypothetical protein mj0350) (db:swissprot) Y350_METJA Q57796 METHANOCOCCUS JANNASCHII 2190 -11541420 173476 hypothetical protein mj0350 (db:pir2.dat) (mp:rev322681-322415) F64343 F64343 Methanococcus jannaschii 2190 -11541420 246784 mj0350 m. jannaschii predicted coding region mj0350 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8595) (re:8861) (di:complement) U67488 U67488 g1499136 Methanococcus jannaschii 2190 -11541420 6500737562 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0350 MJ0350 Methanococcus jannaschii 2190 -11541420

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935621	21184	43340	225	75

Description

5000698656 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0351 MJ0351 Methanococcus jannaschii 2190 -11541421 4000708232 mj0351 (de:hypothetical protein mj0351) (db:swissprot) Y351_METJA Q57797 METHANOCOCCUS JANNASCHII 2190 -11541421 173477 hypothetical protein mj0351 (db:pir2.dat) (mp:rev323154-322702) G64343 G64343 Methanococcus jannaschii 2190 -11541421 246785 mj0351 m. jannaschii predicted coding region mj0351 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8882) (re:9334) (di:complement) U67488 U67488 g1499137 Methanococcus jannaschii 2190 -11541421 6500737563 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0351 MJ0351 Methanococcus jannaschii 2190 -11541421

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935623	21185	43341	426	141

Description

5000698657 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0352 MJ0352 Methanococcus jannaschii 2190 -11541422 4000708233 mj0352 (de:hypothetical protein mj0352) (db:swissprot) Y352_METJA Q57798 METHANOCOCCUS JANNASCHII 2190 -11541422 173478 hypothetical protein mj0352 (db:pir2.dat) (mp:rev323901-323182) H64343 H64343 Methanococcus jannaschii 2190 -11541422 246786 mj0352 m. jannaschii predicted coding region mj0352 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9362) (re:10081) (di:complement) U67488 U67488 g1499138 Methanococcus jannaschii 2190 -11541422 6500737564 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0352 MJ0352 Methanococcus jannaschii 2190 -11541422

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935630	21186	43342	516	171

Description

5000698658 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0353 MJ0353 Methanococcus jannaschii 2190 -11541423 173479 hypothetical protein mj0353 (db:pir2.dat) (mp:rev324142-323888) A64344 A64344 Methanococcus jannaschii 2190 -11541423 246787 mj0353 m. jannaschii predicted coding region mj0353 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10068) (re:10322) (di:complement) U67488 U67488 g1499139 Methanococcus jannaschii 2190 -11541423 6500737565 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0353 MJ0353 Methanococcus jannaschii 2190 -11541423

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935643	21187	43343	522	173

Description

5000698659 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0354 MJ0354 Methanococcus jannaschii 2190 -11541424 4000708234 mj0354 (de:hypothetical protein mj0354) (db:swissprot) Y354_METJA Q57800 METHANOCOCCUS JANNASCHII 2190 -11541424 173480 hypothetical protein mj0354 (db:pir2.dat) (mp:rev324296-324120) B64344 B64344 Methanococcus jannaschii 2190 -11541424 246788 mj0354 m. jannaschii predicted coding region mj0354 (db:genpept-bct1) (de:methanococcus jannaschii section 30 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10300) (re:10476) (di:complement) U67488 U67488 g1499140 Methanococcus jannaschii 2190 -11541424 6500737566 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0354 MJ0354 Methanococcus jannaschii 2190 -11541424

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935663	21188	43344	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935672	21189	43345	432	143

Description

5000698660 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0355 MJ0355 Methanococcus jannaschii 2190 -11541425 4000708235 mj0355 (de:hypothetical protein mj0355) (db:swissprot) Y355_METJA Q57801 METHANOCOCCUS JANNASCHII 2190 -11541425 173481 hypothetical protein mj0355 (db:pir2.dat) (mp:rev324700-324371) C64344 C64344 Methanococcus jannaschii 2190 -11541425 246789 mj0355 m. jannaschii predicted coding region mj0355 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:63) (re:392) (di:complement) U67489 U67489 g1592284 Methanococcus jannaschii 2190 -11541425 6500737567 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0355 MJ0355 Methanococcus jannaschii 2190 -11541425

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935673	21190	43346	330	109

Description

5000698661 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0356 MJ0356 Methanococcus jannaschii 2190 -11541426 4000708236 mj0356 (de:hypothetical protein mj0356) (db:swissprot) Y356_METJA Q57802 METHANOCOCCUS JANNASCHII 2190 -11541426 173482 hypothetical protein mj0356 (db:pir2.dat) (mp:rev324987-324694) D64344 D64344 Methanococcus jannaschii 2190 -11541426 246790 mj0356 m. jannaschii predicted coding region mj0356 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:386) (re:679) (di:complement) U67489 U67489 g1591065 Methanococcus jannaschii 2190 -11541426 6500737568 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0356 MJ0356 Methanococcus jannaschii 2190 -11541426

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935678	21191	43347	492	163

Description

5000698662 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0357 MJ0357 Methanococcus jannaschii 2190 -11541427 4000708237 mj0357 (de:hypothetical protein mj0357) (db:swissprot) Y357_METJA Q57803 METHANOCOCCUS JANNASCHII 2190 -11541427 173483 hypothetical protein mj0357 (db:pir2.dat) (mp:rev326407-325940) E64344 E64344 Methanococcus jannaschii 2190 -11541427 246791 mj0357 m. jannaschii predicted coding region mj0357 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1632) (re:2099) (di:complement) U67489 U67489 g1591066 Methanococcus jannaschii 2190 -11541427 6500737569 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0357 MJ0357 Methanococcus jannaschii 2190 -11541427

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935682	21192	43348	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935687	21193	43349	558	186

Description

5000698663 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0358 MJ0358 Methanococcus jannaschii 2190 -11541428 4000708238 mj0358 (de:hypothetical protein mj0358) (db:swissprot) Y358_METJA Q57804 METHANOCOCCUS JANNASCHII 2190 -11541428 173484 hypothetical protein mj0358 (db:pir2.dat) (mp:rev326796-326410) F64344 F64344 Methanococcus jannaschii 2190 -11541428 246792 mj0358 m. jannaschii predicted coding region mj0358 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2102) (re:2488) (di:complement) U67489 U67489 g1591067 Methanococcus jannaschii 2190 -11541428 6500737570 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0358 MJ0358 Methanococcus jannaschii 2190 -11541428

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935691	21194	43350	540	180

Description

GTC ORF with score 227 to: (sr:aspergillus fumigatus (library: cbs 144.89) (clone: fp4) myceliu) (db:genpept-pln1) (de:aspergillus fumigatus 88 kda secreted dipetidyl peptidase gene,complete cds.) (nt:putative) (le:326:461:571:860:1922) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935706	21195	43351	240	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935726	21196	43352	258	85

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935745	21197	43353	297	98

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935750	21198	43354	528	176

Description

5000698664 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0359 MJ0359 Methanococcus jannaschii 2190 -11541429 4000708239 mj0359 (de:hypothetical protein mj0359) (db:swissprot) Y359_METJA Q57805 METHANOCOCCUS JANNASCHII 2190 -11541429 173485 hypothetical protein mj0359 (db:pir2.dat) (mp:rev327449-326805) G64344 G64344 Methanococcus jannaschii 2190 -11541429 246793 mj0359 m. jannaschii predicted coding region mj0359 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2497) (re:3141) (di:complement) U67489 U67489 g1591068 Methanococcus jannaschii 2190 -11541429 6500737571 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0359 MJ0359 Methanococcus jannaschii 2190 -11541429

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935754	21199	43355	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935756	21200	43356	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935758	21201	43357	519	172

Description

5000698665 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0360 MJ0360 Methanococcus jannaschii 2190 -11541430 4000708240 mj0360 (de:hypothetical protein mj0360) (db:swissprot) Y360_METJA Q57806 METHANOCOCCUS JANNASCHII 2190 -11541430 173486 hypothetical protein mj0360 (db:pir2.dat) (mp:rev328174-327767) H64344 H64344 Methanococcus jannaschii 2190 -11541430 246794 mj0360 m. jannaschii predicted coding region mj0360 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3459) (re:3866) (di:complement) U67489 U67489 g1591069 Methanococcus jannaschii 2190 -11541430 6500737572 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0360 MJ0360 Methanococcus jannaschii 2190 -11541430

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935759	21202	43358	222	73

Description

5000698666 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0361 MJ0361 Methanococcus jannaschii 2190 -11541431 4000708241 mj0361 (de:hypothetical protein mj0361) (db:swissprot) Y361_METJA Q57807 METHANOCOCCUS JANNASCHII 2190 -11541431 173487 hypothetical protein mj0361 (cl:hypothetical protein mj0361) (db:pir2.dat) (mp:rev329502-329179) A64345 A64345 Methanococcus jannaschii 2190 -11541431 246795 mj0361 m. jannaschii predicted coding region mj0361 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4871) (re:5194) (di:complement) U67489 U67489 g1591070 Methanococcus jannaschii 2190 -11541431 6500737573 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0361 MJ0361 Methanococcus jannaschii 2190 -11541431

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935790	21203	43359	309	103

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935796	21204	43360	543	181

Description

5000698667 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0362 MJ0362 Methanococcus jannaschii 2190 -11541432 4000708242 mj0362 (de:hypothetical protein mj0362) (db:swissprot) Y362_METJA Q57808 METHANOCOCCUS JANNASCHII 2190 -11541432 173488 hypothetical protein mj0362 (db:pir2.dat) (mp:for329659-329850) B64345 B64345 Methanococcus jannaschii 2190 -11541432 246796 mj0362 m. jannaschii predicted coding region mj0362 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5351) (re:5542) (di:direct) U67489 U67489 g1499149 Methanococcus jannaschii 2190 -11541432 6500737574 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0362 MJ0362 Methanococcus jannaschii 2190 -11541432

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935824	21205	43361	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935833	21206	43362	753	251

Description

5000698668 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0364 MJ0364 Methanococcus jannaschii 2190 -11541433 4000708243 mj0364 (de:hypothetical protein mj0364) (db:swissprot) Y364_METJA Q57810 METHANOCOCCUS JANNASCHII 2190 -11541433 173489 hypothetical protein mj0364 (db:pir2.dat) (mp:for332154-332498) D64345 D64345 Methanococcus jannaschii 2190 -11541433 246798 mj0364 m. jannaschii predicted coding region mj0364 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7846) (re:8190) (di:direct) U67489 U67489 g1591072 Methanococcus jannaschii 2190 -11541433 6500737575 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0364 MJ0364 Methanococcus jannaschii 2190 -11541433

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935845	21207	43363	969	323

Description

5000698669 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0365 MJ0365 Methanococcus jannaschii 2190 -11541434 4000708244 mj0365 (de:hypothetical protein mj0365) (db:swissprot) Y365_METJA Q57811 METHANOCOCCUS JANNASCHII 2190 -11541434 173490 hypothetical protein mj0365 (db:pir2.dat) (mp:for332503-333033) E64345 E64345 Methanococcus jannaschii 2190 -11541434 246799 mj0365 m. jannaschii predicted coding region mj0365 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:invalid gene; identified by genemark; putative) (le:8195) (re:8725) (di:direct) U67489 U67489 g1499152 Methanococcus jannaschii 2190 -11541434 6500737576 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0365 MJ0365 Methanococcus jannaschii 2190 -11541434

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935854	21208	43364	741	246

Description

5000698670 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0366 MJ0366 Methanococcus jannaschii 2190 -11541435 4000708245 mj0366 (de:hypothetical protein mj0366) (db:swissprot) Y366_METJA Q57812 METHANOCOCCUS JANNASCHII 2190 -11541435 173491 hypothetical protein mj0366 (db:pir2.dat) (mp:for333033-333311) F64345 F64345 Methanococcus jannaschii 2190 -11541435 246800 mj0366 m. jannaschii predicted coding region mj0366 (db:genpept-bct1) (de:methanococcus jannaschii section 31 of 150 of the complete genome.) (nt:invalid gene; identified by genemark; putative) (le:8725) (re:9003) (di:direct) U67489 U67489 g1499153 Methanococcus jannaschii 2190 -11541435 6500737577 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0366 MJ0366 Methanococcus jannaschii 2190 -11541435

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935866	21209	43365	561	187

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935871	21210	43366	180	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935880	21211	43367	285	94

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935881	21212	43368	291	96

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935890	21213	43369	546	182

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935897	21214	43370	456	151

Description

5000698671 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0368 MJ0368 Methanococcus jannaschii 2190 -11541436 4000708246 mj0368 (de:hypothetical protein mj0368) (db:swissprot) Y368_METJA Q57814 METHANOCOCCUS JANNASCHII 2190 -11541436 173492 hypothetical protein mj0368 (db:pir2.dat) (mp:for334569-334889) H64345 H64345 Methanococcus jannaschii 2190 -11541436 246802 mj0368 m. jannaschii predicted coding region mj0368 (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:invalid gene; identified by genemark; putative) (le:168) (re:488) (di:direct) U67490 U67490 g1592285 Methanococcus jannaschii 2190 -11541436 6500737578 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0368 MJ0368 Methanococcus jannaschii 2190 -11541436

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935905	21215	43371	519	172

Description

5000698673 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0375 MJ0375 Methanococcus jannaschii 2190 -11541437 4000708249 mj0375 (de:hypothetical protein mj0375) (db:swissprot) Y375_METJA Q57820 METHANOCOCCUS JANNASCHII 2190 -11541437 173496 hypothetical protein mj0375 (cl:conserved hypothetical protein mj0375) (db:pir2.dat) (mp:for339920-340684) G64346 G64346 Methanococcus jannaschii 2190 -11541437 246809 mj0375 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 41.60;) (le:5519) (re:6283) (di:direct) U67490 U67490 g1591082 Methanococcus jannaschii 2190 -11541437 6500737579 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0375 MJ0375 Methanococcus jannaschii 2190 -11541437

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935946	21216	43372	216	71

Description

GTC ORF with score 123 to: (sr:chlamydomonas reinhardtii (strain cc-621) vegetative cdna to mrna) (db:genpept-pln1) (de:chlamydomonas reinhardtii structural wall protein (vsp1) mrna,complete cds.) (le:273) (re:1175) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935948	21217	43373	579	193

Description

5000698674 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0376 MJ0376 Methanococcus jannaschii 2190 -11541438 173216 hypothetical protein homolog mj0376 (db:pir2.dat) (mp:for341048-343234) H64346 H64346 Methanococcus jannaschii 2190 -11541438 4000708250 mj0376 (de:hypothetical protein mj0376) (db:swissprot) Y376_METJA Q57821 METHANOCOCCUS JANNASCHII 2190 -11541438 6500737580 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0376 MJ0376 Methanococcus jannaschii 2190 -11541438 246810 mju67490 (le:341048) (re:343234) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein u29579_58 gn:mj0376 le:6647 re:8833 di:direct nt:similar to u29579_58 percent identity: 27.4;) U67490 U67490 g1591083 Methanococcus jannaschii 2190 -11541438

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935959	21218	43374	549	183

Description

5000698675 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0377 MJ0377 Methanococcus jannaschii 2190 -11541439 4000708251 mj0377 (de:hypothetical protein mj0377) (db:swissprot) Y377_METJA Q57822 METHANOCOCCUS JANNASCHII 2190 -11541439 173497 conserved hypothetical protein mj0377 (cl:methanococcus jannaschii conserved hypothetical protein mj0377) (db:pir2.dat) (mp:for343243-343755) A64347 A64347 Methanococcus jannaschii 2190 -11541439 246811 mj0377 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 47.31;) (le:8842) (re:9354) (di:direct) U67490 U67490 g1499165 Methanococcus jannaschii 2190 -11541439 6500737581 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0377 MJ0377 Methanococcus jannaschii 2190 -11541439

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935976	21219	43375	471	156

Description

GTC ORF with score 265 to: (sr:citrobacter amalonaticus (strain:yg-1002) dna) (db:genpept-bct1) (de:citrobacter amalonaticus dna for 3-methylaspartate ammonia-lyase,glutamate mutase, complete cds.) (le:1641) (re:2882) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935977	21220	43376	252	84

Description

GTC ORF with score 184 to: (sr:citrobacter amalonaticus (strain:yg-1002) dna) (db:genpept-bct1) (de:citrobacter amalonaticus dna for 3-methylaspartate ammonia-lyase,glutamate mutase, complete cds.) (le:1641) (re:2882) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935990	21221	43377	450	149

Description

GTC ORF with score 94 to: (fn:sequence specific ssdna-binding protein) (sr:triticum aestivum seedling cdna to mrna, clone_lib:lambda gt11 cdn) (db:genpept-pln1) (de:triticum aestivum mrna for ps16 protein, complete cds.) (le:39) (re:920) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501935992	21222	43378	252	83

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936000	21223	43379	411	137

Description

5000698676 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0378 MJ0378 Methanococcus jannaschii 2190 -11541440 4000708252 mj0378 (de:hypothetical protein mj0378) (db:swissprot) Y378_METJA Q57823 METHANOCOCCUS JANNASCHII 2190 -11541440 173498 hypothetical protein mj0378 (cl:conserved hypothetical protein mj0378) (db:pir2.dat) (mp:for343921-344889) B64347 B64347 Methanococcus jannaschii 2190 -11541440 246812 mj0378 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:similar to gp:1648904 percent identity: 21.09;) (le:9520) (re:10488) (di:direct) U67490 U67490 g1499166 Methanococcus jannaschii 2190 -11541440 6500737582 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0378 MJ0378 Methanococcus jannaschii 2190 -11541440

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936008	21224	43380	318	105

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936014	21225	43381	378	125

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936016	21226	43382	330	109

Description

5000698677 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0379 MJ0379 Methanococcus jannaschii 2190 -11541441 4000708253 mj0379 (de:hypothetical protein mj0379) (db:swissprot) Y379_METJA Q57824 METHANOCOCCUS JANNASCHII 2190 -11541441 173499 hypothetical protein mj0379 (db:pir2.dat) (mp:rev345512-344886) C64347 C64347 Methanococcus jannaschii 2190 -11541441 246813 mj0379 m. jannaschii predicted coding region mj0379 (db:genpept-bct1) (de:methanococcus jannaschii section 32 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10485) (re:11111) (di:complement) U67490 U67490 g1591084 Methanococcus jannaschii 2190 -11541441 6500737583 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0379 MJ0379 Methanococcus jannaschii 2190 -11541441

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936021	21227	43383	831	276

Description

5000698678 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0380 MJ0380 Methanococcus jannaschii 2190 -11541442 4000708254 mj0380 (de:hypothetical protein mj0380) (db:swissprot) Y380_METJA Q57825 METHANOCOCCUS JANNASCHII 2190 -11541442 173500 hypothetical protein mj0380 (db:pir2.dat) (mp:for345621-345977) D64347 D64347 Methanococcus jannaschii 2190 -11541442 246814 mj0380 m. jannaschii predicted coding region mj0380 (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:80) (re:436) (di:direct) U67491 U67491 g1592286 Methanococcus jannaschii 2190 -11541442 6500737584 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0380 MJ0380 Methanococcus jannaschii 2190 -11541442

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936023	21228	43384	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936060	21229	43385	711	236

Description

5000698679 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0381 MJ0381 Methanococcus jannaschii 2190 -11541443 4000708255 mj0381 (de:hypothetical protein mj0381) (db:swissprot) Y381_METJA Q57826 METHANOCOCCUS JANNASCHII 2190 -11541443 173501 hypothetical protein mj0381 (db:pir2.dat) (mp:for345977-346939) E64347 E64347 Methanococcus jannaschii 2190 -11541443 246815 mj0381 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 28.57;) (le:436) (re:1398) (di:direct) U67491 U67491 g1591087 Methanococcus jannaschii 2190 -11541443 6500737585 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0381 MJ0381 Methanococcus jannaschii 2190 -11541443

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936067	21230	43386	216	71

Description

5000698680 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0382 MJ0382 Methanococcus jannaschii 2190 -11541444 4000708256 mj0382 (de:hypothetical protein mj0382) (db:swissprot) Y382_METJA Q57827 METHANOCOCCUS JANNASCHII 2190 -11541444 173502 hypothetical protein mj0382 (db:pir2.dat) (mp:for346949-347686) F64347 F64347 Methanococcus jannaschii 2190 -11541444 246816 mj0382 m. jannaschii predicted coding region mj0382 (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1408) (re:2145) (di:direct) U67491 U67491 g1591088 Methanococcus jannaschii 2190 -11541444 6500737586 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0382 MJ0382 Methanococcus jannaschii 2190 -11541444

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936071	21231	43387	339	112

Description

5000698682 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0384 MJ0384 Methanococcus jannaschii 2190 -11541445 4000708258 mj0384 (de:hypothetical protein mj0384) (db:swissprot) Y384_METJA Q57829 METHANOCOCCUS JANNASCHII 2190 -11541445 173504 hypothetical protein mj0384 (db:pir2.dat) (mp:for349528-350262) H64347 H64347 Methanococcus jannaschii 2190 -11541445 246818 mj0384 m. jannaschii predicted coding region mj0384 (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3987) (re:4721) (di:direct) U67491 U67491 g1591090 Methanococcus jannaschii 2190 -11541445 6500737587 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0384 MJ0384 Methanococcus jannaschii 2190 -11541445

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936078	21232	43388	411	137

Description

GTC ORF with score 424 to: (sr:schizosaccharomyces pombe (strain:pr745) cdna to mrna) (db:genpept-pln1) (de:schizosaccharomyces pombe mrna, partial cds, clone: sy 0604.) (nt:similar to saccharomyces serevisiae hypothetical) (le:<1) (re:1121) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936082	21233	43389	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936083	21234	43390	213	70

Description

5000698683 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0385 MJ0385 Methanococcus jannaschii 2190 -11541446 4000708259 mj0385 (de:hypothetical protein mj0385) (db:swissprot) Y385_METJA Q57830 METHANOCOCCUS JANNASCHII 2190 -11541446 173505 hypothetical protein mj0385 (db:pir2.dat) (mp:for350180-351307) A64348 A64348 Methanococcus jannaschii 2190 -11541446 246819 mj0385 m. jannaschii predicted coding region mj0385 (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4639) (re:5766) (di:direct) U67491 U67491 g1591091 Methanococcus jannaschii 2190 -11541446 6500737588 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0385 MJ0385 Methanococcus jannaschii 2190 -11541446

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936092	21235	43391	549	182

Description

5000698684 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0386 MJ0386 Methanococcus jannaschii 2190 -11541447 4000708260 mj0386 (de:hypothetical protein mj0386) (db:swissprot) Y386_METJA Q57831 METHANOCOCCUS JANNASCHII 2190 -11541447 173506 hypothetical protein mj0386 (db:pir2.dat) (mp:rev351648-351304) B64348 B64348 Methanococcus jannaschii 2190 -11541447 246820 mj0386 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 57.50;) (le:5763) (re:6107) (di:complement) U67491 U67491 g1591092 Methanococcus jannaschii 2190 -11541447 6500737589 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0386 MJ0386 Methanococcus jannaschii 2190 -11541447

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936118	21236	43392	576	192

Description

5000698685 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0388 MJ0388 Methanococcus jannaschii 2190 -11541448 4000708261 mj0388 (de:hypothetical protein mj0388) (db:swissprot) Y388_METJA Q57833 METHANOCOCCUS JANNASCHII 2190 -11541448 173217 hypothetical protein homolog mj0388 (cl:hypothetical protein mj0388) (db:pir2.dat) (mp:rev353737-353114) D64348 D64348 Methanococcus jannaschii 2190 -11541448 246822 mj0388 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:similar to sp:p15886 pid:44739 percent identity:) (le:7573) (re:8196) (di:complement) U67491 U67491 g1591093 Methanococcus jannaschii 2190 -11541448 6500737590 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0388 MJ0388 Methanococcus jannaschii 2190 -11541448

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936123	21237	43393	264	87

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936131	21238	43394	540	180

Description

5000698686 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0390 MJ0390 Methanococcus jannaschii 2190 -11541449 4000708262 mj0390 (de:hypothetical protein mj0390) (db:swissprot) Y390_METJA Q57835 METHANOCOCCUS JANNASCHII 2190 -11541449 173507 hypothetical protein mj0390 (db:pir2.dat) (mp:rev355149-354757) F64348 F64348 Methanococcus jannaschii 2190 -11541449 246824 mj0390 m. jannaschii predicted coding region mj0390 (db:genpept-bct1) (de:methanococcus jannaschii section 33 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9216) (re:9608) (di:complement) U67491 U67491 g1499179 Methanococcus jannaschii 2190 -11541449 6500737591 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0390 MJ0390 Methanococcus jannaschii 2190 -11541449

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936132	21239	43395	540	180

Description

5000698687 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0392 MJ0392 Methanococcus jannaschii 2190 -11541450 4000709507 mj0392 (de:hypothetical protein mj0392) (db:swissprot) Y392_METJA Q57837 METHANOCOCCUS JANNASCHII 2190 -11541450 173218 hypothetical protein homolog mj0392 (cl:conserved hypothetical protein mj0392) (db:pir2.dat) (mp:for355789-356808) H64348 H64348 Methanococcus jannaschii 2190 -11541450 246826 mj0392 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:similar to gp:1001386 percent identity: 29.24;) (le:66) (re:1085) (di:direct) U67492 U67492 g1592287 Methanococcus jannaschii 2190 -11541450 6500737592 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0392 MJ0392 Methanococcus jannaschii 2190 -11541450

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936140	21240	43396	459	153

Description

5000698688 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0395 MJ0395 Methanococcus jannaschii 2190 -11541451 4000708264 mj0395 (de:hypothetical protein mj0395) (db:swissprot) Y395_METJA Q57838 METHANOCOCCUS JANNASCHII 2190 -11541451 173508 conserved hypothetical protein mj0395 (cl:methanococcus jannaschii conserved hypothetical protein mj0395) (db:pir2.dat) (mp:rev357787-357311) C64349 C64349 Methanococcus jannaschii 2190 -11541451 246829 mj0395 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 40.74;) (le:1588) (re:2064) (di:complement) U67492 U67492 g1591100 Methanococcus jannaschii 2190 -11541451 6500737593 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0395 MJ0395 Methanococcus jannaschii 2190 -11541451

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936159	21241	43397	738	245

Description

5000698689 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0398 MJ0398 Methanococcus jannaschii 2190 -11541452 1500686302 mj0398 (de:hypothetical protein mj0398) (db:swissprot) Y398_METJA Q57841 METHANOCOCCUS JANNASCHII 2190 -11541452 173509 hypothetical protein mj0398 (db:pir2.dat) (mp:for359111-359926) F64349 F64349 Methanococcus jannaschii 2190 -11541452 246832 mj0398 m. jannaschii predicted coding region mj0398 (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3388) (re:4203) (di:direct) U67492 U67492 g1591103 Methanococcus jannaschii 2190 -11541452 6500737594 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0398 MJ0398 Methanococcus jannaschii 2190 -11541452

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936166	21242	43398	324	108

Description

5000698690 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0400 MJ0400 Methanococcus jannaschii 2190 -11541453 4000708265 mj0400 (de:hypothetical protein mj0400) (db:swissprot) Y400_METJA Q57843 METHANOCOCCUS JANNASCHII 2190 -11541453 173510 hypothetical protein mj0400 (db:pir2.dat) (mp:for361593-362414) H64349 H64349 Methanococcus jannaschii 2190 -11541453 246834 mj0400 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:similar to gp:1787796 percent identity: 32.03;) (le:5870) (re:6691) (di:direct) U67492 U67492 g1591105 Methanococcus jannaschii 2190 -11541453 6500737595 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0400 MJ0400 Methanococcus jannaschii 2190 -11541453

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936174	21243	43399	387	128

Description

5000698691 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0401 MJ0401 Methanococcus jannaschii 2190 -11541454 4000708266 mj0401 (de:hypothetical protein mj0401) (db:swissprot) Y401_METJA Q57844 METHANOCOCCUS JANNASCHII 2190 -11541454 173511 hypothetical protein mj0401 (db:pir2.dat) (mp:rev362717-362517) A64350 A64350 Methanococcus jannaschii 2190 -11541454 246835 mj0401 m. jannaschii predicted coding region mj0401 (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6794) (re:6994) (di:complement) U67492 U67492 g1591106 Methanococcus jannaschii 2190 -11541454 6500737596 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0401 MJ0401 Methanococcus jannaschii 2190 -11541454

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936177	21244	43400	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936182	21245	43401	396	132

Description

GTC ORF with score 556 to: (sr:schizosaccharomyces pombe (strain:pr745) cdna to mrna) (db:genpept-pln1) (de:schizosaccharomyces pombe mrna, partial cds, clone: sy 0630.) (nt:similar to saccharomyces serevisiae elongation) (le:<1) (re:1718) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936186	21246	43402	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936187	21247	43403	309	103

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936191	21248	43404	375	125

Description

5000698692 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0402 MJ0402 Methanococcus jannaschii 2190 -11541455 4000708267 mj0402 (de:hypothetical protein mj0402) (db:swissprot) Y402_METJA Q57845 METHANOCOCCUS JANNASCHII 2190 -11541455 173512 hypothetical protein mj0402 (db:pir2.dat) (mp:rev363046-362726) B64350 B64350 Methanococcus jannaschii 2190 -11541455 246836 mj0402 m. jannaschii predicted coding region mj0402 (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7003) (re:7323) (di:complement) U67492 U67492 g1591107 Methanococcus jannaschii 2190 -11541455 6500737597 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0402 MJ0402 Methanococcus jannaschii 2190 -11541455

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936194	21249	43405	243	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936201	21250	43406	564	188

Description

5000698693 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0403 MJ0403 Methanococcus jannaschii 2190 -11541456 4000708268 mj0403 (de:hypothetical protein mj0403) (db:swissprot) Y403_METJA Q57846 METHANOCOCCUS JANNASCHII 2190 -11541456 174286 hypothetical protein yjr008w homolog (cl:conserved hypothetical protein yjr008w) (db:pir2.dat) (mp:for363225-364088) C64350 C64350 Methanococcus jannaschii 2190 -11541456 246837 mj0403 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:similar to gp:1707828 percent identity: 48.03;) (le:7502) (re:8365) (di:direct) U67492 U67492 g1591108 Methanococcus jannaschii 2190 -11541456 6500737598 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0403 MJ0403 Methanococcus jannaschii 2190 -11541456

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936209	21251	43407	570	190

Description

5000698694 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0404 MJ0404 Methanococcus jannaschii 2190 -11541457 4000708269 mj0404 (de:hypothetical protein mj0404) (db:swissprot) Y404_METJA Q57847 METHANOCOCCUS JANNASCHII 2190 -11541457 173513 hypothetical protein mj0404 (db:pir2.dat) (mp:rev364804-364352) D64350 D64350 Methanococcus jannaschii 2190 -11541457 246838 mj0404 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 65.03;) (le:8629) (re:9081) (di:complement) U67492 U67492 g1591109 Methanococcus jannaschii 2190 -11541457 6500737599 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0404 MJ0404 Methanococcus jannaschii 2190 -11541457

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936236	21252	43408	255	84

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936237	21253	43409	345	114

Description

5000698695 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0405 MJ0405 Methanococcus jannaschii 2190 -11541458 4000708270 mj0405 (de:hypothetical protein mj0405) (db:swissprot) Y405_METJA Q57848 METHANOCOCCUS JANNASCHII 2190 -11541458 173514 conserved hypothetical protein mj0405 (cl:methanococcus jannaschii conserved hypothetical protein mj0405) (db:pir2.dat) (mp:rev365394-364999) E64350 E64350 Methanococcus jannaschii 2190 -11541458 246839 mj0405 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 34 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 46.09;) (le:9276) (re:9671) (di:complement) U67492 U67492 g1591110 Methanococcus jannaschii 2190 -11541458 6500737600 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0405 MJ0405 Methanococcus jannaschii 2190 -11541458

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936250	21254	43410	627	208

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936263	21255	43411	654	217

Description

5000698696 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0408 MJ0408 Methanococcus jannaschii 2190 -11541459 4000708271 mj0408 (de:hypothetical protein mj0408) (db:swissprot) Y408_METJA Q57851 METHANOCOCCUS JANNASCHII 2190 -11541459 173515 hypothetical protein mj0408 (cl:hypothetical protein mj0408) (db:pir2.dat) (mp:for367518-367883) H64350 H64350 Methanococcus jannaschii 2190 -11541459 246842 mj0408 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 51.82;) (le:2072) (re:2437) (di:direct) U67493 U67493 g1591114 Methanococcus jannaschii 2190 -11541459 6500737601 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0408 MJ0408 Methanococcus jannaschii 2190 -11541459

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936265	21256	43412	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936269	21257	43413	522	174

Description

5000698697 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0409 MJ0409 Methanococcus jannaschii 2190 -11541460 173516 hypothetical protein mj0409 (db:pir2.dat) (mp:for367946-370057) A64351 A64351 Methanococcus jannaschii 2190 -11541460 6500737602 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0409 MJ0409 Methanococcus jannaschii 2190 -11541460 246843 mju67493 (le:367946) (re:370057) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0409 gn:mj0409 le:2500 re:4611 di:direct nt:identified by genemark; putative) U67493 U67493 g1591115 Methanococcus jannaschii 2190 -11541460

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936273	21258	43414	513	171

Description

5000699420 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0410 MJ0410 Methanococcus jannaschii 2190 -11541461 4000708272 mj0410 (de:hypothetical atp-binding protein mj0410) (db:swissprot) Y410_METJA Q57853 METHANOCOCCUS JANNASCHII 2190 -11541461 173517 hypothetical protein mj0410 (db:pir2.dat) (mp:for370074-370868) B64351 B64351 Methanococcus jannaschii 2190 -11541461 246844 mj0410 hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:similar to pid:1174351 percent identity: 32.34;) (le:4628) (re:5422) (di:direct) U67493 U67493 g1591116 Methanococcus jannaschii 2190 -11541461 6500737603 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0410 MJ0410 Methanococcus jannaschii 2190 -11541461

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936289	21259	43415	573	191

Description

5000698698 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0414 MJ0414 Methanococcus jannaschii 2190 -11541462 4000708273 mj0414 (de:hypothetical protein mj0414) (db:swissprot) Y414_METJA Q57857 METHANOCOCCUS JANNASCHII 2190 -11541462 173518 hypothetical protein mj0414 (cl:hypothetical protein mj0414) (db:pir2.dat) (mp:rev374603-373416) F64351 F64351 Methanococcus jannaschii 2190 -11541462 246848 mj0414 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 43.28;) (le:7970) (re:9157) (di:complement) U67493 U67493 g1499205 Methanococcus jannaschii 2190 -11541462 6500737604 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0414 MJ0414 Methanococcus jannaschii 2190 -11541462

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936296	21260	43416	429	143

Description

5000698699 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0415 MJ0415 Methanococcus jannaschii 2190 -11541463 4000708274 mj0415 (de:hypothetical protein mj0415) (db:swissprot) Y415_METJA Q57858 METHANOCOCCUS JANNASCHII 2190 -11541463 173519 hypothetical protein mj0415 (db:pir2.dat) (mp:for374712-375200) G64351 G64351 Methanococcus jannaschii 2190 -11541463 246849 mj0415 m. jannaschii predicted coding region mj0415 (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9266) (re:9754) (di:direct) U67493 U67493 g1499206 Methanococcus jannaschii 2190 -11541463 6500737605 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0415 MJ0415 Methanococcus jannaschii 2190 -11541463

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936302	21261	43417	498	166

Description

5000698700 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0416 MJ0416 Methanococcus jannaschii 2190 -11541464 4000708275 mj0416 (de:hypothetical protein mj0416) (db:swissprot) Y416_METJA Q57859 METHANOCOCCUS JANNASCHII 2190 -11541464 173520 hypothetical protein mj0416 (db:pir2.dat) (mp:for375222-375794) H64351 H64351 Methanococcus jannaschii 2190 -11541464 246850 mj0416 m. jannaschii predicted coding region mj0416 (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9776) (re:10348) (di:direct) U67493 U67493 g1499207 Methanococcus jannaschii 2190 -11541464 6500737606 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0416 MJ0416 Methanococcus jannaschii 2190 -11541464

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936314	21262	43418	555	185

Description

5000698701 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0417 MJ0417 Methanococcus jannaschii 2190 -11541465 4000708276 mj0417 (de:hypothetical protein mj0417) (db:swissprot) Y417_METJA Q57860 METHANOCOCCUS JANNASCHII 2190 -11541465 173521 hypothetical protein mj0417 (db:pir2.dat) (mp:rev376510-375797) A64352 A64352 Methanococcus jannaschii 2190 -11541465 246851 mj0417 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 35 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 33.33;) (le:10351) (re:11064) (di:complement) U67493 U67493 g1499208 Methanococcus jannaschii 2190 -11541465 6500737607 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0417 MJ0417 Methanococcus jannaschii 2190 -11541465

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936320	21263	43419	792	263

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936322	21264	43420	546	182

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936325	21265	43421	309	102

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936327	21266	43422	228	76

Description

5000698702 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0418 MJ0418 Methanococcus jannaschii 2190 -11541466 7500895264 mj0418 (de:hypothetical protein mj0418) (db:swissprot) Y418_METJA Q57861 METHANOCOCCUS JANNASCHII 2190 -11541466 173522 hypothetical protein mj0418 (db:pir2.dat) (mp:for376618-377391) B64352 B64352 Methanococcus jannaschii 2190 -11541466 7500895266 mj0418 m. jannaschii predicted coding region mj0418 (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:79) (re:852) (di:direct) U67494 U67494 g1592289 Methanococcus jannaschii 2190 -11541466 6500737608 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0418 MJ0418 Methanococcus jannaschii 2190 -11541466 246852 mju67494 (le:376618) (re:377391) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0418 gn:mj0418 le:79 re:852 di:direct nt:identified by genemark; putative) U67494 U67494 g1592289 Methanococcus jannaschii 2190 -11541466

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936333	21267	43423	588	196

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936335	21268	43424	288	96

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936348	21269	43425	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936357	21270	43426	471	156

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936369	21271	43427	876	292

Description

5000698703 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0419 MJ0419 Methanococcus jannaschii 2190 -11541467 4000708278 mj0419 (de:hypothetical protein mj0419) (db:swissprot) Y419_METJA Q57862 METHANOCOCCUS JANNASCHII 2190 -11541467 173523 hypothetical protein mj0419 (db:pir2.dat) (mp:for377369-378433) C64352 C64352 Methanococcus jannaschii 2190 -11541467 246853 mj0419 m. jannaschii predicted coding region mj0419 (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:830) (re:1894) (di:direct) U67494 U67494 g1591122 Methanococcus jannaschii 2190 -11541467 6500737609 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0419 MJ0419 Methanococcus jannaschii 2190 -11541467

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936384	21272	43428	504	167

Description

5000699421 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0420 MJ0420 Methanococcus jannaschii 2190 -11541468 4000708279 mj0420 (de:hypothetical protein mj0420) (db:swissprot) Y420_METJA Q57863 METHANOCOCCUS JANNASCHII 2190 -11541468 173524 hypothetical protein mj0420 (db:pir2.dat) (mp:for378394-379536) D64352 D64352 Methanococcus jannaschii 2190 -11541468 246854 mj0420 o-antigen polymerase isolog (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:similar to gb:m60066 sp:p26479 pid:154343 percent) (le:1855) (re:2997) (di:direct) U67494 U67494 g1591123 Methanococcus jannaschii 2190 -11541468 6500737610 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0420 MJ0420 Methanococcus jannaschii 2190 -11541468

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936390	21273	43429	702	234

Description

GTC ORF with score 229 to: (db:genpept-bct1) (de:bacillus licheniformis bacitracin synthetase operon includingbacitracin synthetase 1 (baca), 2 (bacb) and 3 (bacc) genes,complete cds.) (nt:peptide synthetase; ba1; baca) (le:312) (re:16079) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936393	21274	43430	204	67

Description

5000698704 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0421 MJ0421 Methanococcus jannaschii 2190 -11541469 4000708280 mj0421 (de:hypothetical protein mj0421) (db:swissprot) Y421_METJA Q57864 METHANOCOCCUS JANNASCHII 2190 -11541469 173525 hypothetical protein mj0421 (cl:hypothetical protein mj0421) (db:pir2.dat) (mp:for379640-380722) E64352 E64352 Methanococcus jannaschii 2190 -11541469 246855 mj0421 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:similar to gp:1786625 percent identity: 35.10;) (le:3101) (re:4183) (di:direct) U67494 U67494 g1591124 Methanococcus jannaschii 2190 -11541469 6500737611 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0421 MJ0421 Methanococcus jannaschii 2190 -11541469

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936397	21275	43431	387	128

Description

5000698705 conserved hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0423 MJ0423 Methanococcus jannaschii 2190 -11541470 4000708281 mj0423 (de:hypothetical atp-binding protein mj0423) (db:swissprot) Y423_METJA Q57866 METHANOCOCCUS JANNASCHII 2190 -11541470 173526 hypothetical protein mj0423 (db:pir2.dat) (mp:for381855-382034) G64352 G64352 Methanococcus jannaschii 2190 -11541470 246857 mj0423 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:similar to gp:1652904 percent identity: 36.54;) (le:5316) (re:5495) (di:direct) U67494 U67494 g1591126 Methanococcus jannaschii 2190 -11541470 6500737612 conserved hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0423 MJ0423 Methanococcus jannaschii 2190 -11541470

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936400	21276	43432	600	200

Description

GTC ORF with score 199 to: (sr:human) (db:genpept-pri3) (de:homo sapiens lysosomal pepstatin insensitive protease (cln2) gene,complete cds.) (nt:deficient in late-infantile neuronal ceroid) (le:1329:1462:1814:2938) (re:1345:1533:1953:3088) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936408	21277	43433	474	157

Description

5000698706 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0424 MJ0424 Methanococcus jannaschii 2190 -11541471 4000708282 mj0424 (de:hypothetical protein mj0424) (db:swissprot) Y424_METJA Q57867 METHANOCOCCUS JANNASCHII 2190 -11541471 173527 hypothetical protein mj0424 (db:pir2.dat) (mp:for382028-382339) H64352 H64352 Methanococcus jannaschii 2190 -11541471 246858 mj0424 m. jannaschii predicted coding region mj0424 (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5489) (re:5800) (di:direct) U67494 U67494 g1591127 Methanococcus jannaschii 2190 -11541471 6500737613 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0424 MJ0424 Methanococcus jannaschii 2190 -11541471

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936409	21278	43434	204	67

Description

5000698707 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0425 MJ0425 Methanococcus jannaschii 2190 -11541472 118838 mj0425 (de:hypothetical protein mj0425) (db:swissprot) Y425_METJA Q57868 METHANOCOCCUS JANNASCHII 2190 -11541472 173528 hypothetical protein mj0425 (db:pir2.dat) (mp:for382293-382715) A64353 A64353 Methanococcus jannaschii 2190 -11541472 246859 mj0425 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 40.15;) (le:5754) (re:6176) (di:direct) U67494 U67494 g1591128 Methanococcus jannaschii 2190 -11541472 6500737614 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0425 MJ0425 Methanococcus jannaschii 2190 -11541472

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936410	21279	43435	183	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936423	21280	43436	195	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936432	21281	43437	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936434	21282	43438	276	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936440	21283	43439	564	188

Description

5000698708 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0426 MJ0426 Methanococcus jannaschii 2190 -11541473 4000708283 mj0426 (de:hypothetical protein mj0426) (db:swissprot) Y426_METJA Q57869 METHANOCOCCUS JANNASCHII 2190 -11541473 173529 hypothetical protein mj0426 (db:pir2.dat) (mp:rev383243-382701) B64353 B64353 Methanococcus jannaschii 2190 -11541473 246860 mj0426 m. jannaschii predicted coding region mj0426 (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6162) (re:6704) (di:complement) U67494 U67494 g1591129 Methanococcus jannaschii 2190 -11541473 6500737615 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0426 MJ0426 Methanococcus jannaschii 2190 -11541473

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936444	21284	43440	504	167

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936449	21285	43441	444	147

Description

5000698709 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0427 MJ0427 Methanococcus jannaschii 2190 -11541474 4000708284 mj0427 (de:hypothetical protein mj0427) (db:swissprot) Y427_METJA Q57870 METHANOCOCCUS JANNASCHII 2190 -11541474 173530 hypothetical protein mj0427 (db:pir2.dat) (mp:rev383722-383240) C64353 C64353 Methanococcus jannaschii 2190 -11541474 246861 mj0427 m. jannaschii predicted coding region mj0427 (db:genpept-bct1) (de:methanococcus jannaschii section 36 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6701) (re:7183) (di:complement) U67494 U67494 g1591130 Methanococcus jannaschii 2190 -11541474 6500737616 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0427 MJ0427 Methanococcus jannaschii 2190 -11541474

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936460	21286	43442	189	62

Description

5000698710 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0431 MJ0431 Methanococcus jannaschii 2190 -11541475 4000708286 mj0431 (de:hypothetical protein mj0431) (db:swissprot) Y431_METJA Q57873 METHANOCOCCUS JANNASCHII 2190 -11541475 173531 hypothetical protein mj0431 (db:pir2.dat) (mp:rev387359-387132) G64353 G64353 Methanococcus jannaschii 2190 -11541475 246865 mj0431 m. jannaschii predicted coding region mj0431 (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:110) (re:337) (di:complement) U67495 U67495 g1592290 Methanococcus jannaschii 2190 -11541475 6500737617 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0431 MJ0431 Methanococcus jannaschii 2190 -11541475

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936474	21287	43443	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936499	21288	43444	324	107

Description

5000698711 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0432 MJ0432 Methanococcus jannaschii 2190 -11541476 4000708287 mj0432 (de:hypothetical protein mj0432) (db:swissprot) Y432_METJA Q57874 METHANOCOCCUS JANNASCHII 2190 -11541476 173532 conserved hypothetical protein mj0432 (db:pir2.dat) (mp:rev388127-387849) H64353 H64353 Methanococcus jannaschii 2190 -11541476 246866 mj0432 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to gp:1707720 percent identity: 34.18;) (le:827) (re:1105) (di:complement) U67495 U67495 g1591136 Methanococcus jannaschii 2190 -11541476 6500737618 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0432 MJ0432 Methanococcus jannaschii 2190 -11541476

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936510	21289	43445	399	132

Description

5000698712 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0433 MJ0433 Methanococcus jannaschii 2190 -11541477 4000708288 mj0433 (de:hypothetical protein mj0433) (db:swissprot) Y433_METJA Q57875 METHANOCOCCUS JANNASCHII 2190 -11541477 173533 hypothetical protein mj0433 (db:pir2.dat) (mp:rev388663-388136) A64354 A64354 Methanococcus jannaschii 2190 -11541477 246867 mj0433 m. jannaschii predicted coding region mj0433 (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1114) (re:1641) (di:complement) U67495 U67495 g1591137 Methanococcus jannaschii 2190 -11541477 6500737619 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0433 MJ0433 Methanococcus jannaschii 2190 -11541477

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936511	21290	43446	816	272

Description

5000698715 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0437 MJ0437 Methanococcus jannaschii 2190 -11541478 4000708290 mj0437 (de:hypothetical protein mj0437) (db:swissprot) Y437_METJA Q57879 METHANOCOCCUS JANNASCHII 2190 -11541478 173536 conserved hypothetical protein mj0437 (cl:methanococcus jannaschii conserved hypothetical protein mj0437) (db:pir2.dat) (mp:rev391903-391664) E64354 E64354 Methanococcus jannaschii 2190 -11541478 246871 mj0437 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to gp:1652335 percent identity: 34.43;) (le:4642) (re:4881) (di:complement) U67495 U67495 g1591141 Methanococcus jannaschii 2190 -11541478 6500737620 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0437 MJ0437 Methanococcus jannaschii 2190 -11541478

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936520	21291	43447	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936521	21292	43448	210	70

Description

5000698716 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0438 MJ0438 Methanococcus jannaschii 2190 -11541479 4000709949 mj0438 (de:hypothetical protein mj0438) (db:swissprot) Y438_METJA Q57880 METHANOCOCCUS JANNASCHII 2190 -11541479 173219 hypothetical protein homolog mj0438 (db:pir2.dat) (mp:for392091-393236) F64354 F64354 Methanococcus jannaschii 2190 -11541479 246872 mj0438 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to pid:1146183 sp:p50840 gb:al009126) (le:5069) (re:6214) (di:direct) U67495 U67495 g1591142 Methanococcus jannaschii 2190 -11541479 6500737621 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0438 MJ0438 Methanococcus jannaschii 2190 -11541479

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936526	21293	43449	408	136

Description

5000698717 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0439 MJ0439 Methanococcus jannaschii 2190 -11541480 118936 mj0439 (de:hypothetical atp-binding protein mj0439) (db:swissprot) Y439_METJA Q57881 METHANOCOCCUS JANNASCHII 2190 -11541480 173537 hypothetical protein mj0439 (db:pir2.dat) (mp:rev394316-393231) G64354 G64354 Methanococcus jannaschii 2190 -11541480 246873 mj0439 m. jannaschii predicted coding region mj0439 (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6209) (re:7294) (di:complement) U67495 U67495 g1591143 Methanococcus jannaschii 2190 -11541480 6500737622 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0439 MJ0439 Methanococcus jannaschii 2190 -11541480

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936528	21294	43450	204	67

Description

5000698718 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0440 MJ0440 Methanococcus jannaschii 2190 -11541481 4000708291 mj0440 (de:hypothetical protein mj0440) (db:swissprot) Y440_METJA Q57882 METHANOCOCCUS JANNASCHII 2190 -11541481 173538 hypothetical protein mj0440 (db:pir2.dat) (mp:for394396-395295) H64354 H64354 Methanococcus jannaschii 2190 -11541481 246874 mj0440 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to sp:p29085 gb:x67205 pid:45951 percent) (le:7374) (re:8273) (di:direct) U67495 U67495 g1591144 Methanococcus jannaschii 2190 -11541481 6500737623 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0440 MJ0440 Methanococcus jannaschii 2190 -11541481

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936529	21295	43451	207	68

Description

5000698719 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0441 MJ0441 Methanococcus jannaschii 2190 -11541482 4000708292 mj0441 (de:hypothetical protein mj0441) (db:swissprot) Y441_METJA Q57883 METHANOCOCCUS JANNASCHII 2190 -11541482 173199 hypothetical protein hi0902 homolog (cl:hypothetical protein hi0902) (db:pir2.dat) (mp:for395436-396239) A64355 A64355 Methanococcus jannaschii 2190 -11541482 246875 mj0441 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44070 pid:1006005) (le:8414) (re:9217) (di:direct) U67495 U67495 g1591145 Methanococcus jannaschii 2190 -11541482 6500737624 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0441 MJ0441 Methanococcus jannaschii 2190 -11541482

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936538	21296	43452	279	93

Description

5000699422 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0443 MJ0443 Methanococcus jannaschii 2190 -11541483 4000708293 mj0443 (de:hypothetical protein mj0443) (db:swissprot) Y443_METJA Q57885 METHANOCOCCUS JANNASCHII 2190 -11541483 173220 conserved hypothetical protein mj0443 (cl:methanococcus jannaschii conserved hypothetical protein mj0443) (db:pir2.dat) (mp:rev397693-397010) C64355 C64355 Methanococcus jannaschii 2190 -11541483 246877 mj0443 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to gb:x59720 sp:p25586 pid:5300 percent) (le:9988) (re:10671) (di:complement) U67495 U67495 g1591147 Methanococcus jannaschii 2190 -11541483 6500737625 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0443 MJ0443 Methanococcus jannaschii 2190 -11541483

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936555	21297	43453	558	186

Description

5000698720 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0444 MJ0444 Methanococcus jannaschii 2190 -11541484 121251 mj0444 (de:hypothetical protein mj0444) (db:swissprot) Y444_METJA Q57886 METHANOCOCCUS JANNASCHII 2190 -11541484 173539 hypothetical protein mj0444 (cl:conserved hypothetical protein mj0444) (db:pir2.dat) (mp:rev398609-397737) D64355 D64355 Methanococcus jannaschii 2190 -11541484 246878 mj0444 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 37 of 150 of the complete genome.) (nt:similar to sp:q03021 gb:x68198 pid:809776 percent) (le:10715) (re:11587) (di:complement) U67495 U67495 g1499237 Methanococcus jannaschii 2190 -11541484 6500737626 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0444 MJ0444 Methanococcus jannaschii 2190 -11541484

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936560	21298	43454	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936571	21299	43455	480	160

Description

5000698721 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0446 MJ0446 Methanococcus jannaschii 2190 -11541485 4000708294 mj0446 (de:hypothetical protein mj0446) (db:swissprot) Y446_METJA Q57888 METHANOCOCCUS JANNASCHII 2190 -11541485 173221 conserved hypothetical protein mj0446 (cl:methanococcus jannaschii conserved hypothetical protein mj0446) (db:pir2.dat) (mp:for399495-400580) F64355 F64355 Methanococcus jannaschii 2190 -11541485 246880 mj0446 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to gp:1652294 percent identity: 41.39;) (le:778) (re:1863) (di:direct) U67496 U67496 g1591150 Methanococcus jannaschii 2190 -11541485 6500737627 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0446 MJ0446 Methanococcus jannaschii 2190 -11541485

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936577	21300	43456	294	97

Description

5000698722 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0447 MJ0447 Methanococcus jannaschii 2190 -11541486 4000708295 mj0447 (de:hypothetical protein mj0447) (db:swissprot) Y447_METJA Q57889 METHANOCOCCUS JANNASCHII 2190 -11541486 173540 hypothetical protein mj0447 (db:pir2.dat) (mp:rev401037-400552) G64355 G64355 Methanococcus jannaschii 2190 -11541486 246881 mj0447 m. jannaschii predicted coding region mj0447 (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1835) (re:2320) (di:complement) U67496 U67496 g1591151 Methanococcus jannaschii 2190 -11541486 6500737628 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0447 MJ0447 Methanococcus jannaschii 2190 -11541486

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936580	21301	43457	495	164

Description

5000698723 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0448 MJ0448 Methanococcus jannaschii 2190 -11541487 500685024 mj0448 (de:hypothetical protein mj0448) (db:swissprot) Y448_METJA Q57890 METHANOCOCCUS JANNASCHII 2190 -11541487 173541 hypothetical protein mj0448 (db:pir2.dat) (mp:for401168-401938) H64355 H64355 Methanococcus jannaschii 2190 -11541487 246882 mj0448 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to pid:577190 percent identity: 29.38;) (le:2451) (re:3221) (di:direct) U67496 U67496 g1591152 Methanococcus jannaschii 2190 -11541487 6500737629 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0448 MJ0448 Methanococcus jannaschii 2190 -11541487

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936581	21302	43458	582	194

Description

5000699423 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0450 MJ0450 Methanococcus jannaschii 2190 -11541488 118841 mj0450 (de:hypothetical protein mj0450) (db:swissprot) Y450_METJA Q57892 METHANOCOCCUS JANNASCHII 2190 -11541488 173542 yhcv homolog mj0450 (cl:conserved hypothetical protein yhcv:cbs homology) (db:pir2.dat) (mp:for403277-403837) B64356 B64356 Methanococcus jannaschii 2190 -11541488 246884 mj0450 inosine monophosphate dehydrogenase isolog (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to pid:1002715 sp:p50100 percent identity:) (le:4560) (re:5120) (di:direct) U67496 U67496 g1591154 Methanococcus jannaschii 2190 -11541488 6500737630 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0450 MJ0450 Methanococcus jannaschii 2190 -11541488

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936593	21303	43459	204	67

Description

5000698725 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0452 MJ0452 Methanococcus jannaschii 2190 -11541489 4000708296 mj0452 (de:hypothetical protein mj0452) (db:swissprot) Y452_METJA Q57894 METHANOCOCCUS JANNASCHII 2190 -11541489 173543 conserved hypothetical protein mj0452 (cl:methanococcus jannaschii conserved hypothetical protein mj0452) (db:pir2.dat) (mp:rev404962-404516) D64356 D64356 Methanococcus jannaschii 2190 -11541489 246886 mj0452 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 37.67;) (le:5799) (re:6245) (di:complement) U67496 U67496 g1591156 Methanococcus jannaschii 2190 -11541489 6500737631 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0452 MJ0452 Methanococcus jannaschii 2190 -11541489

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936597	21304	43460	582	194

Description

5000698726 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0453 MJ0453 Methanococcus jannaschii 2190 -11541490 4000708297 mj0453 (de:hypothetical protein mj0453) (db:swissprot) Y453_METJA Q57895 METHANOCOCCUS JANNASCHII 2190 -11541490 173544 conserved hypothetical protein mj0453 (cl:methanococcus jannaschii conserved hypothetical protein mj0453) (db:pir2.dat) (mp:rev405287-404964) E64356 E64356 Methanococcus jannaschii 2190 -11541490 246887 mj0453 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 42.67;) (le:6247) (re:6570) (di:complement) U67496 U67496 g1591157 Methanococcus jannaschii 2190 -11541490 6500737632 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0453 MJ0453 Methanococcus jannaschii 2190 -11541490

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936609	21305	43461	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936612	21306	43462	558	186

Description

5000698727 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0455 MJ0455 Methanococcus jannaschii 2190 -11541491 4000708298 mj0455 (de:hypothetical protein mj0455) (db:swissprot) Y455_METJA Q57897 METHANOCOCCUS JANNASCHII 2190 -11541491 173545 hypothetical protein mj0455 (db:pir2.dat) (mp:rev406863-406282) G64356 G64356 Methanococcus jannaschii 2190 -11541491 246889 mj0455 m. jannaschii predicted coding region mj0455 (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7565) (re:8146) (di:complement) U67496 U67496 g1499249 Methanococcus jannaschii 2190 -11541491 6500737633 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0455 MJ0455 Methanococcus jannaschii 2190 -11541491

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936613	21307	43463	231	76

Description

5000698728 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0456 MJ0456 Methanococcus jannaschii 2190 -11541492 4000708299 mj0456 (de:hypothetical protein mj0456) (db:swissprot) Y456_METJA Q57898 METHANOCOCCUS JANNASCHII 2190 -11541492 173546 hypothetical protein mj0456 (db:pir2.dat) (mp:for406888-407946) H64356 H64356 Methanococcus jannaschii 2190 -11541492 246890 mj0456 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to gp:1787039 percent identity: 31.40;) (le:8171) (re:9229) (di:direct) U67496 U67496 g1499250 Methanococcus jannaschii 2190 -11541492 6500737634 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0456 MJ0456 Methanococcus jannaschii 2190 -11541492

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936617	21308	43464	516	172

Description

5000698729 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0458 MJ0458 Methanococcus jannaschii 2190 -11541493 4000708300 mj0458 (de:hypothetical protein mj0458) (db:swissprot) Y458_METJA Q57900 METHANOCOCCUS JANNASCHII 2190 -11541493 173222 hypothetical protein homolog mj0458 (cl:hypothetical protein mj0458) (db:pir2.dat) (mp:for409196-409846) B64357 B64357 Methanococcus jannaschii 2190 -11541493 246892 mj0458 delta 1-pyrroline-5-carboxylate synthetase (db:genpept-bct1) (de:methanococcus jannaschii section 38 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 43.00;) (le:10479) (re:11129) (di:direct) U67496 U67496 g1499252 Methanococcus jannaschii 2190 -11541493 6500737635 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0458 MJ0458 Methanococcus jannaschii 2190 -11541493

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936620	21309	43465	558	186

Description

5000698730 conserved hypothetical protein:protein translation factor sui1 homolog (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0463 MJ0463 Methanococcus jannaschii 2190 -11541494 1500687380 mj0463 (de:protein translation factor sui1 homolog) (db:swissprot) SUI1_METJA Q57902 METHANOCOCCUS JANNASCHII 2190 -11541494 173223 hypothetical protein homolog mj0463 (cl:pyrf operon conserved hypothetical 11.4k protein) (db:pir2.dat) (mp:for412234-412545) G64357 G64357 Methanococcus jannaschii 2190 -11541494 246897 mj0463 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14021 pid:44755 percent identity:) (le:2381) (re:2692) (di:direct) U67497 U67497 g1591165 Methanococcus jannaschii 2190 -11541494 6500737636 conserved hypothetical protein:protein translation factor sui1 homolog (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0463 MJ0463 Methanococcus jannaschii 2190 -11541494

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936622	21310	43466	360	120

Description

5000698731 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0464 MJ0464 Methanococcus jannaschii 2190 -11541495 173224 conserved hypothetical protein mj0464 (cl:methanococcus jannaschii conserved hypothetical protein mj0464) (db:pir2.dat) (mp:for412642-412929) H64357 H64357 Methanococcus jannaschii 2190 -11541495 246898 mj0464 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 39 of 150 of the complete genome.) (nt:similar to sp:p14022 pid:44756 percent identity:) (le:2789) (re:3076) (di:direct) U67497 U67497 g1591166 Methanococcus jannaschii 2190 -11541495 6500737637 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0464 MJ0464 Methanococcus jannaschii 2190 -11541495

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936632	21311	43467	522	173

Description

5000698732 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0480 MJ0480 Methanococcus jannaschii 2190 -11541496 4000708301 mj0480 (de:hypothetical protein mj0480) (db:swissprot) Y480_METJA Q57904 METHANOCOCCUS JANNASCHII 2190 -11541496 173548 hypothetical protein mj0480 (cl:hypothetical protein mj0480) (db:pir2.dat) (mp:for422470-423066) H64359 H64359 Methanococcus jannaschii 2190 -11541496 246914 mj0480 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 40 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 27.49;) (le:2282) (re:2878) (di:direct) U67498 U67498 g1591183 Methanococcus jannaschii 2190 -11541496 6500737638 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0480 MJ0480 Methanococcus jannaschii 2190 -11541496

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936643	21312	43468	837	279

Description

5000698733 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0482 MJ0482 Methanococcus jannaschii 2190 -11541497 4000708303 mj0482 (de:hypothetical protein mj0482) (db:swissprot) Y482_METJA Q57905 METHANOCOCCUS JANNASCHII 2190 -11541497 173550 hypothetical protein mj0482 (db:pir2.dat) (mp:rev423793-423071) A64360 A64360 Methanococcus jannaschii 2190 -11541497 246915 mj0482 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 40 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 60.00;) (le:2883) (re:3605) (di:complement) U67498 U67498 g1591185 Methanococcus jannaschii 2190 -11541497 6500737639 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0482 MJ0482 Methanococcus jannaschii 2190 -11541497

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936659	21313	43469	552	184

Description

5000698734 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0481 MJ0481 Methanococcus jannaschii 2190 -11541498 4000708302 mj0481 (de:hypothetical protein mj0481) (db:swissprot) Y481_METJA Q57906 METHANOCOCCUS JANNASCHII 2190 -11541498 173549 hypothetical protein mj0481 (db:pir2.dat) (mp:for423792-424088) B64360 B64360 Methanococcus jannaschii 2190 -11541498 246916 mj0481 zinc finger protein (db:genpept-bct1) (de:methanococcus jannaschii section 40 of 150 of the complete genome.) (nt:similar to gb:x59244 gb:x52358 sp:p17038 sp:p17040) (le:3604) (re:3900) (di:direct) U67498 U67498 g1591184 Methanococcus jannaschii 2190 -11541498 6500737640 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0481 MJ0481 Methanococcus jannaschii 2190 -11541498

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936670	21314	43470	531	177

Description

5000698735 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0483 MJ0483 Methanococcus jannaschii 2190 -11541499 4000708304 mj0483 (de:hypothetical protein mj0483) (db:swissprot) Y483_METJA Q57907 METHANOCOCCUS JANNASCHII 2190 -11541499 173225 hypothetical protein homolog mj0483 (db:pir2.dat) (mp:rev425125-424103) C64360 C64360 Methanococcus jannaschii 2190 -11541499 246917 mj0483 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 40 of 150 of the complete genome.) (nt:similar to gb:z47047 sp:p40487 pid:558703) (le:3915) (re:4937) (di:complement) U67498 U67498 g1591186 Methanococcus jannaschii 2190 -11541499 6500737641 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0483 MJ0483 Methanococcus jannaschii 2190 -11541499

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936671	21315	43471	426	141

Description

5000698736 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0485 MJ0485 Methanococcus jannaschii 2190 -11541500 4000708305 mj0485 (de:hypothetical protein mj0485) (db:swissprot) Y485_METJA Q57909 METHANOCOCCUS JANNASCHII 2190 -11541500 173551 hypothetical protein mj0485 (db:pir2.dat) (mp:for427094-428107) E64360 E64360 Methanococcus jannaschii 2190 -11541500 246919 mj0485 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 40 of 150 of the complete genome.) (nt:similar to gb:d26185 sp:p37563 pid:467456) (le:6906) (re:7919) (di:direct) U67498 U67498 g1591188 Methanococcus jannaschii 2190 -11541500 6500737642 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0485 MJ0485 Methanococcus jannaschii 2190 -11541500

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936677	21316	43472	744	247

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936703	21317	43473	276	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936711	21318	43474	291	96

Description

5000698737 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0486 MJ0486 Methanococcus jannaschii 2190 -11541501 4000708306 mj0486 (de:hypothetical protein mj0486) (db:swissprot) Y486_METJA Q57910 METHANOCOCCUS JANNASCHII 2190 -11541501 173226 conserved hypothetical protein homolog mj0486 (cl:methanococcus jannaschii conserved hypothetical protein mj0486) (db:pir2.dat) (mp:rev430647-429679) F64360 F64360 Methanococcus jannaschii 2190 -11541501 246920 mj0486 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 40 of 150 of the complete genome.) (nt:similar to sp:p45476 pid:606150 gb:u00096) (le:9491) (re:10459) (di:complement) U67498 U67498 g1591189 Methanococcus jannaschii 2190 -11541501 6500737643 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0486 MJ0486 Methanococcus jannaschii 2190 -11541501

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936716	21319	43475	969	323

Description

5000698738 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0488 MJ0488 Methanococcus jannaschii 2190 -11541502 4000708307 mj0488 (de:hypothetical protein mj0488) (db:swissprot) Y488_METJA Q57912 METHANOCOCCUS JANNASCHII 2190 -11541502 173552 hypothetical protein mj0488 (cl:hypothetical protein mj0488) (db:pir2.dat) (mp:for432383-432859) H64360 H64360 Methanococcus jannaschii 2190 -11541502 246922 mj0488 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 47.74;) (le:1620) (re:2096) (di:direct) U67499 U67499 g1591192 Methanococcus jannaschii 2190 -11541502 6500737644 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0488 MJ0488 Methanococcus jannaschii 2190 -11541502

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936723	21320	43476	837	279

Description

5000698739 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0489 MJ0489 Methanococcus jannaschii 2190 -11541503 4000708308 mj0489 (de:hypothetical protein mj0489) (db:swissprot) Y489_METJA Q57913 METHANOCOCCUS JANNASCHII 2190 -11541503 173227 hypothetical protein homolog mj0489 (db:pir2.dat) (mp:for432874-433680) A64361 A64361 Methanococcus jannaschii 2190 -11541503 246923 mj0489 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:similar to pid:726060 gb:ae000666 percent identity:) (le:2111) (re:2917) (di:direct) U67499 U67499 g1591193 Methanococcus jannaschii 2190 -11541503 6500737645 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0489 MJ0489 Methanococcus jannaschii 2190 -11541503

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936728	21321	43477	423	140

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936731	21322	43478	213	70

Description

5000698740 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0491 MJ0491 Methanococcus jannaschii 2190 -11541504 4000708309 mj0491 (de:hypothetical protein mj0491) (db:swissprot) Y491_METJA Q57914 METHANOCOCCUS JANNASCHII 2190 -11541504 173553 hypothetical protein mj0491 (db:pir2.dat) (mp:for434608-435111) C64361 C64361 Methanococcus jannaschii 2190 -11541504 246925 mj0491 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 25.19;) (le:3845) (re:4348) (di:direct) U67499 U67499 g1591195 Methanococcus jannaschii 2190 -11541504 6500737646 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0491 MJ0491 Methanococcus jannaschii 2190 -11541504

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936738	21323	43479	486	161

Description

5000698741 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0492 MJ0492 Methanococcus jannaschii 2190 -11541505 4000708310 mj0492 (de:hypothetical protein mj0492) (db:swissprot) Y492_METJA Q57915 METHANOCOCCUS JANNASCHII 2190 -11541505 173554 hypothetical protein mj0492 (db:pir2.dat) (mp:rev435387-435100) D64361 D64361 Methanococcus jannaschii 2190 -11541505 246926 mj0492 m. jannaschii predicted coding region mj0492 (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4337) (re:4624) (di:complement) U67499 U67499 g1591196 Methanococcus jannaschii 2190 -11541505 6500737647 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0492 MJ0492 Methanococcus jannaschii 2190 -11541505

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936742	21324	43480	240	80

Description

5000698742 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0494 MJ0494 Methanococcus jannaschii 2190 -11541506 4000708311 mj0494 (de:hypothetical protein mj0494) (db:swissprot) Y494_METJA Q57917 METHANOCOCCUS JANNASCHII 2190 -11541506 173555 hypothetical protein mj0494 (cl:hypothetical protein mj0494) (db:pir2.dat) (mp:for436492-436896) F64361 F64361 Methanococcus jannaschii 2190 -11541506 246928 mj0494 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:similar to sp:p28005 pid:5243 pid:595552 percent) (le:5729) (re:6133) (di:direct) U67499 U67499 g1591198 Methanococcus jannaschii 2190 -11541506 6500737648 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0494 MJ0494 Methanococcus jannaschii 2190 -11541506

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936752	21325	43481	183	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936757	21326	43482	366	121

Description

5000698743 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0496 MJ0496 Methanococcus jannaschii 2190 -11541507 4000708312 mj0496 (de:hypothetical protein mj0496) (db:swissprot) Y496_METJA Q57919 METHANOCOCCUS JANNASCHII 2190 -11541507 173556 hypothetical protein mj0496 (db:pir2.dat) (mp:for438403-438828) H64361 H64361 Methanococcus jannaschii 2190 -11541507 246930 mj0496 m. jannaschii predicted coding region mj0496 (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7640) (re:8065) (di:direct) U67499 U67499 g1591200 Methanococcus jannaschii 2190 -11541507 6500737649 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0496 MJ0496 Methanococcus jannaschii 2190 -11541507

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936758	21327	43483	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936789	21328	43484	900	300

Description

5000698744 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0497 MJ0497 Methanococcus jannaschii 2190 -11541508 4000708313 mj0497 (de:hypothetical protein mj0497) (db:swissprot) Y497_METJA Q57920 METHANOCOCCUS JANNASCHII 2190 -11541508 173557 hypothetical protein mj0497 (db:pir2.dat) (mp:rev439221-438820) A64362 A64362 Methanococcus jannaschii 2190 -11541508 246931 mj0497 m. jannaschii predicted coding region mj0497 (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8057) (re:8458) (di:complement) U67499 U67499 g1499294 Methanococcus jannaschii 2190 -11541508 6500737650 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0497 MJ0497 Methanococcus jannaschii 2190 -11541508

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936813	21329	43485	621	207

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936820	21330	43486	288	96

Description

5000698745 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0498 MJ0498 Methanococcus jannaschii 2190 -11541509 4000708314 mj0498 (de:hypothetical protein mj0498) (db:swissprot) Y498_METJA Q57921 METHANOCOCCUS JANNASCHII 2190 -11541509 173558 hypothetical protein mj0498 (cl:hypothetical protein mj0498) (db:pir2.dat) (mp:rev439681-439211) B64362 B64362 Methanococcus jannaschii 2190 -11541509 246932 mj0498 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 41 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 38.41;) (le:8448) (re:8918) (di:complement) U67499 U67499 g1499295 Methanococcus jannaschii 2190 -11541509 6500737651 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0498 MJ0498 Methanococcus jannaschii 2190 -11541509

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936823	21331	43487	900	300

Description

5000698746 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0500 MJ0500 Methanococcus jannaschii 2190 -11541510 4000708315 mj0500 (de:hypothetical protein mj0500) (db:swissprot) Y500_METJA Q57923 METHANOCOCCUS JANNASCHII 2190 -11541510 173559 hypothetical protein mj0500 (db:pir2.dat) (mp:rev442315-441536) D64362 D64362 Methanococcus jannaschii 2190 -11541510 246934 mj0500 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 42 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 25.14;) (le:241) (re:1020) (di:complement) U67500 U67500 g1591203 Methanococcus jannaschii 2190 -11541510 6500737652 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0500 MJ0500 Methanococcus jannaschii 2190 -11541510

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936837	21332	43488	183	60

Description

5000698747 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0501 MJ0501 Methanococcus jannaschii 2190 -11541511 4000708316 mj0501 (de:hypothetical protein mj0501) (db:swissprot) Y501_METJA Q57924 METHANOCOCCUS JANNASCHII 2190 -11541511 173560 hypothetical protein mj0501 (cl:hypothetical protein mj0501) (db:pir2.dat) (mp:rev443001-442393) E64362 E64362 Methanococcus jannaschii 2190 -11541511 246935 mj0501 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 42 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 37.24;) (le:1098) (re:1706) (di:complement) U67500 U67500 g1591204 Methanococcus jannaschii 2190 -11541511 6500737653 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0501 MJ0501 Methanococcus jannaschii 2190 -11541511

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936840	21333	43489	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936857	21334	43490	465	155

Description

5000698748 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0504 MJ0504 Methanococcus jannaschii 2190 -11541512 4000708317 mj0504 (de:hypothetical protein mj0504) (db:swissprot) Y504_METJA Q57927 METHANOCOCCUS JANNASCHII 2190 -11541512 173561 hypothetical protein mj0504 (db:pir2.dat) (mp:for445787-446377) H64362 H64362 Methanococcus jannaschii 2190 -11541512 246938 mj0504 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 42 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 61.08;) (le:4492) (re:5082) (di:direct) U67500 U67500 g1591207 Methanococcus jannaschii 2190 -11541512 6500737654 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0504 MJ0504 Methanococcus jannaschii 2190 -11541512

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936858	21335	43491	291	96

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936872	21336	43492	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936874	21337	43493	201	66

Description

5000698749 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0505 MJ0505 Methanococcus jannaschii 2190 -11541513 173562 hypothetical protein mj0505 (db:pir2.dat) (mp:for446367-447122) A64363 A64363 Methanococcus jannaschii 2190 -11541513 246939 mj0505 m. jannaschii predicted coding region mj0505 (db:genpept-bct1) (de:methanococcus jannaschii section 42 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5072) (re:5827) (di:direct) U67500 U67500 g1591208 Methanococcus jannaschii 2190 -11541513 6500737655 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0505 MJ0505 Methanococcus jannaschii 2190 -11541513

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936879	21338	43494	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936897	21339	43495	558	186

Description

5000698750 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0512 MJ0512 Methanococcus jannaschii 2190 -11541514 7500895361 mj0512 (de:hypothetical protein mj0512) (db:swissprot) Y512_METJA Q57932 METHANOCOCCUS JANNASCHII 2190 -11541514 173563 hypothetical protein mj0512 (db:pir2.dat) (mp:rev454004-453291) H64363 H64363 Methanococcus jannaschii 2190 -11541514 7500895363 mj0512 m. jannaschii predicted coding region mj0512 (db:genpept-bct1) (de:methanococcus jannaschii section 43 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1875) (re:2588) (di:complement) U67501 U67501 g1591215 Methanococcus jannaschii 2190 -11541514 6500737656 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0512 MJ0512 Methanococcus jannaschii 2190 -11541514 246946 mju67501 (le:453291) (re:454004) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0512 gn:mj0512 le:1875 re:2588 di:complement nt:identified by genemark; putative) U67501 U67501 g1591215 Methanococcus jannaschii 2190 -11541514

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936901	21340	43496	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936907	21341	43497	222	73

Description

5000698751 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0513 MJ0513 Methanococcus jannaschii 2190 -11541515 7500895364 mj0513 (de:hypothetical protein mj0513) (db:swissprot) Y513_METJA Q57933 METHANOCOCCUS JANNASCHII 2190 -11541515 173564 hypothetical protein mj0513 (db:pir2.dat) (mp:rev454873-454148) A64364 A64364 Methanococcus jannaschii 2190 -11541515 7500895366 mj0513 m. jannaschii predicted coding region mj0513 (db:genpept-bct1) (de:methanococcus jannaschii section 43 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2732) (re:3457) (di:complement) U67501 U67501 g1591216 Methanococcus jannaschii 2190 -11541515 6500737657 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0513 MJ0513 Methanococcus jannaschii 2190 -11541515 246947 mju67501 (le:454148) (re:454873) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0513 gn:mj0513 le:2732 re:3457 di:complement nt:identified by genemark; putative) U67501 U67501 g1591216 Methanococcus jannaschii 2190 -11541515

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936908	21342	43498	288	95

Description

GTC ORF with score 126 to: (sr:schizosaccharomyces pombe (strain:pr745) cdna to mrna) (db:genpept-plnl) (de:schizosaccharomyces pombe mrna, partial cds, clone: sy 1495.) (nt:similar to saccharomyces cerevisiae zinc/cadmium) (le:154) (re:1317) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936925	21343	43499	261	86

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936928	21344	43500	636	211

Description

5000698752 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0517 MJ0517 Methanococcus jannaschii 2190 -11541516 173565 hypothetical protein mj0517 (cl:hypothetical protein mj0517) (db:pir2.dat) (mp:rev459742-459320) E64364 E64364 Methanococcus jannaschii 2190 -11541516 246951 mj0517 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 43 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 35.85;) (le:7904) (re:8326) (di:complement) U67501 U67501 g1591220 Methanococcus jannaschii 2190 -11541516 6500737658 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0517 MJ0517 Methanococcus jannaschii 2190 -11541516

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936932	21345	43501	441	146

Description

5000698753 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0518 MJ0518 Methanococcus jannaschii 2190 -11541517 173566 conserved hypothetical protein mj0518 (cl:methanococcus jannaschii conserved hypothetical protein mj0518) (db:pir2.dat) (mp:rev460020-459736) F64364 F64364 Methanococcus jannaschii 2190 -11541517 246952 mj0518 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 43 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 40.43;) (le:8320) (re:8604) (di:complement) U67501 U67501 g1499317 Methanococcus jannaschii 2190 -11541517 6500737659 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0518 MJ0518 Methanococcus jannaschii 2190 -11541517

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936944	21346	43502	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936946	21347	43503	261	86

Description

5000698754 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0519 MJ0519 Methanococcus jannaschii 2190 -11541518 173567 hypothetical protein mj0519 (db:pir2.dat) (mp:rev460286-460032) G64364 G64364 Methanococcus jannaschii 2190 -11541518 246953 mj0519 m. jannaschii predicted coding region mj0519 (db:genpept-bct1) (de:methanococcus jannaschii section 43 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8616) (re:8870) (di:complement) U67501 U67501 g1591221 Methanococcus jannaschii 2190 -11541518 6500737660 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0519 MJ0519 Methanococcus jannaschii 2190 -11541518

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936950	21348	43504	534	178

Description

5000698755 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0521 MJ0521 Methanococcus jannaschii 2190 -11541519 4000708319 mj0521 (de:hypothetical protein mj0521) (db:swissprot) Y521_METJA Q57941 METHANOCOCCUS JANNASCHII 2190 -11541519 173568 hypothetical protein mj0521 (db:pir2.dat) (mp:rev461757-461548) A64365 A64365 Methanococcus jannaschii 2190 -11541519 246955 mj0521 m. jannaschii predicted coding region mj0521 (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:122) (re:331) (di:complement) U67502 U67502 g1592294 Methanococcus jannaschii 2190 -11541519 6500737661 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0521 MJ0521 Methanococcus jannaschii 2190 -11541519

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936954	21349	43505	246	81

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936961	21350	43506	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936978	21351	43507	270	89

Description

5000698756 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0522 MJ0522 Methanococcus jannaschii 2190 -11541520 4000708320 mj0522 (de:hypothetical protein mj0522) (db:swissprot) Y522_METJA Q57942 METHANOCOCCUS JANNASCHII 2190 -11541520 173569 hypothetical protein mj0522 (db:pir2.dat) (mp:rev462424-461768) B64365 B64365 Methanococcus jannaschii 2190 -11541520 246956 mj0522 nadh dehydrogenase i (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 51.38;) (le:342) (re:998) (di:complement) U67502 U67502 g1591225 Methanococcus jannaschii 2190 -11541520 6500737662 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0522 MJ0522 Methanococcus jannaschii 2190 -11541520

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501936984	21352	43508	546	181

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937009	21353	43509	192	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937018	21354	43510	231	76

Description

5000698757 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0523 MJ0523 Methanococcus jannaschii 2190 -11541521 4000708321 mj0523 (de:hypothetical protein mj0523) (db:swissprot) Y523_METJA Q57943 METHANOCOCCUS JANNASCHII 2190 -11541521 173570 hypothetical protein mj0523 (db:pir2.dat) (mp:rev463237-462533) C64365 C64365 Methanococcus jannaschii 2190 -11541521 246957 mj0523 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to gp:1652320 percent identity: 24.72;) (le:1107) (re:1811) (di:complement) U67502 U67502 g1591226 Methanococcus jannaschii 2190 -11541521 6500737663 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0523 MJ0523 Methanococcus jannaschii 2190 -11541521

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937043	21355	43511	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937050	21356	43512	693	230

Description

5000698758 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0524 MJ0524 Methanococcus jannaschii 2190 -11541522 4000708322 mj0524 (de:hypothetical protein mj0524) (db:swissprot) Y524_METJA Q57944 METHANOCOCCUS JANNASCHII 2190 -11541522 173571 hypothetical protein mj0524 (db:pir2.dat) (mp:rev463714-463238) D64365 D64365 Methanococcus jannaschii 2190 -11541522 246958 mj0524 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 59.33;) (le:1812) (re:2288) (di:complement) U67502 U67502 g1591227 Methanococcus jannaschii 2190 -11541522 6500737664 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0524 MJ0524 Methanococcus jannaschii 2190 -11541522

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937056	21357	43513	321	106

Description

5000698759 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0525 MJ0525 Methanococcus jannaschii 2190 -11541523 4000708323 mj0525 (de:hypothetical protein mj0525) (db:swissprot) Y525_METJA Q57945 METHANOCOCCUS JANNASCHII 2190 -11541523 173572 hypothetical protein mj0525 (db:pir2.dat) (mp:rev463999-463838) E64365 E64365 Methanococcus jannaschii 2190 -11541523 246959 mj0525 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 58.14;) (le:2412) (re:2573) (di:complement) U67502 U67502 g1591228 Methanococcus jannaschii 2190 -11541523 6500737665 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0525 MJ0525 Methanococcus jannaschii 2190 -11541523

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937058	21358	43514	441	146

Description

5000698760 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0526 MJ0526 Methanococcus jannaschii 2190 -11541524 4000708324 mj0526 (de:hypothetical protein mj0526) (db:swissprot) Y526_METJA Q57946 METHANOCOCCUS JANNASCHII 2190 -11541524 173573 conserved hypothetical protein mj0526 (cl:methanococcus jannaschii conserved hypothetical protein mj0526) (db:pir2.dat) (mp:rev464400-464122) F64365 F64365 Methanococcus jannaschii 2190 -11541524 246960 mj0526 m. jannaschii predicted coding region mj0526 (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2696) (re:2974) (di:complement) U67502 U67502 g1591229 Methanococcus jannaschii 2190 -11541524 6500737666 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0526 MJ0526 Methanococcus jannaschii 2190 -11541524

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937064	21359	43515	312	103

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937092	21360	43516	312	103

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937101	21361	43517	549	183

Description

5000698761 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0527 MJ0527 Methanococcus jannaschii 2190 -11541525 4000708325 mj0527 (de:hypothetical protein mj0527) (db:swissprot) Y527_METJA Q57947 METHANOCOCCUS JANNASCHII 2190 -11541525 173574 hypothetical protein mj0527 (db:pir2.dat) (mp:rev465148-464654) G64365 G64365 Methanococcus jannaschii 2190 -11541525 246961 mj0527 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 62.50;) (le:3228) (re:3722) (di:complement) U67502 U67502 g1591230 Methanococcus jannaschii 2190 -11541525 6500737667 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0527 MJ0527 Methanococcus jannaschii 2190 -11541525

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937114	21362	43518	540	180

Description

5000698762 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0528 MJ0528 Methanococcus jannaschii 2190 -11541526 4000708326 mj0528 (de:hypothetical protein mj0528) (db:swissprot) Y528_METJA Q57948 METHANOCOCCUS JANNASCHII 2190 -11541526 173575 conserved hypothetical protein mj0528 (cl:methanococcus jannaschii conserved hypothetical protein mj0528) (db:pir2.dat) (mp:rev465444-465148) H64365 H64365 Methanococcus jannaschii 2190 -11541526 246962 mj0528 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 42.86;) (le:3722) (re:4018) (di:complement) U67502 U67502 g1591231 Methanococcus jannaschii 2190 -11541526 6500737668 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0528 MJ0528 Methanococcus jannaschii 2190 -11541526

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937119	21363	43519	309	102

Description

5000698081 conserved hypothetical protein:gp:u40843_3:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0530 MJ0530 Methanococcus jannaschii 2190 -11541527 4000708327 mj0530 (de:hypothetical protein mj0530) (db:swissprot) Y530_METJA Q57950 METHANOCOCCUS JANNASCHII 2190 -11541527 174564 thioredoxin-2 (cl:methanococcus jannaschii thioredoxin-2) (db:pir2.dat) (mp:for466350-466946) B64366 B64366 Methanococcus jannaschii 2190 -11541527 246964 mj0530 conserved hypothetical (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to gp:1165216 percent identity: 32.17;) (le:4924) (re:5520) (di:direct) U67502 U67502 g1591233 Methanococcus jannaschii 2190 -11541527 6500737669 conserved hypothetical protein:gp:u40843_3:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0530 MJ0530 Methanococcus jannaschii 2190 -11541527

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937122	21364	43520	555	185

Description

5000698764 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0531 MJ0531 Methanococcus jannaschii 2190 -11541528 4000709962 mj0531 (de:hypothetical protein mj0531) (db:swissprot) Y531_METJA Q57951 METHANOCOCCUS JANNASCHII 2190 -11541528 173228 hypothetical protein homolog mj0531 (cl:escherichia coli ybdq protein) (db:pir2.dat) (mp:for467095-467607) C64366 C64366 Methanococcus jannaschii 2190 -11541528 246965 mj0531 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 44 of 150 of the complete genome.) (nt:similar to sp:p42297 pid:603780 pid:849027) (le:5669) (re:6181) (di:direct) U67502 U67502 g1591234 Methanococcus jannaschii 2190 -11541528 6500737670 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0531 MJ0531 Methanococcus jannaschii 2190 -11541528

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937123	21365	43521	222	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937129	21366	43522	606	202

Description

5000698765 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0538 MJ0538 Methanococcus jannaschii 2190 -11541529 4000708329 mj0538 (de:hypothetical protein mj0538) (db:swissprot) Y538_METJA Q57958 METHANOCOCCUS JANNASCHII 2190 -11541529 173577 hypothetical protein mj0538 (db:pir2.dat) (mp:rev474807-474025) B64367 B64367 Methanococcus jannaschii 2190 -11541529 246972 mj0538 m. jannaschii predicted coding region mj0538 (db:genpept-bct1) (de:methanococcus jannaschii section 45 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2180) (re:2962) (di:complement) U67503 U67503 g1591242 Methanococcus jannaschii 2190 -11541529 6500737671 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0538 MJ0538 Methanococcus jannaschii 2190 -11541529

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937144	21367	43523	492	164

Description

5000698766 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0540 MJ0540 Methanococcus jannaschii 2190 -11541530 4000708331 mj0540 (de:hypothetical protein mj0540) (db:swissprot) Y540_METJA Q57960 METHANOCOCCUS JANNASCHII 2190 -11541530 173579 hypothetical protein mj0540 (db:pir2.dat) (mp:rev476949-476692) D64367 D64367 Methanococcus jannaschii 2190 -11541530 246974 mj0540 m. jannaschii predicted coding region mj0540 (db:genpept-bct1) (de:methanococcus jannaschii section 45 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4847) (re:5104) (di:complement) U67503 U67503 g1591244 Methanococcus jannaschii 2190 -11541530 6500737672 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0540 MJ0540 Methanococcus jannaschii 2190 -11541530

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937153	21368	43524	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937160	21369	43525	279	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937166	21370	43526	567	188

Description

5000698767 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0541 MJ0541 Methanococcus jannaschii 2190 -11541531 4000708332 mj0541 (de:hypothetical protein mj0541) (db:swissprot) Y541_METJA Q57961 METHANOCOCCUS JANNASCHII 2190 -11541531 173580 hypothetical protein mj0541 (cl:conserved hypothetical protein mj0541) (db:pir2.dat) (mp:rev477476-476970) E64367 E64367 Methanococcus jannaschii 2190 -11541531 246975 mj0541 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 45 of 150 of the complete genome.) (nt:similar to gp:1001812 percent identity: 32.62;) (le:5125) (re:5631) (di:complement) U67503 U67503 g1591245 Methanococcus jannaschii 2190 -11541531 6500737673 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0541 MJ0541 Methanococcus jannaschii 2190 -11541531

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937170	21371	43527	486	162

Description

GTC ORF with score 127 to: (sr:thale cress) (db:genpept-pln1) (de:arabidopsis thaliana chromosome ii bac t20b5 genomic sequence,complete sequence.) (nt:hypothetical protein) (le:4532:5217:5438) (re:5166:5411:5956) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937176	21372	43528	525	175

Description

GTC ORF with score 299 to: (fn:salicylate synthesis) (db:genpept-bct2) (de:yersinia pestis trna-asn gene, complete sequence; cp4-likeintegrase (int), ybts (ybts), ybtx (ybtx), ybtq (ybtq), ybtp(ybtp), arac-like regulator ybta (ybta), ybt peptide ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937184	21373	43529	687	229

Description

5000698768 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0545 MJ0545 Methanococcus jannaschii 2190 -11541532 4000708334 mj0545 (de:hypothetical protein mj0545) (db:swissprot) Y545_METJA Q57965 METHANOCOCCUS JANNASCHII 2190 -11541532 173581 hypothetical protein mj0545 (db:pir2.dat) (mp:rev483465-482710) A64368 A64368 Methanococcus jannaschii 2190 -11541532 246979 mj0545 m. jannaschii predicted coding region mj0545 (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:885) (re:1640) (di:complement) U67504 U67504 g1591250 Methanococcus jannaschii 2190 -11541532 6500737674 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0545 MJ0545 Methanococcus jannaschii 2190 -11541532

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937186	21374	43530	264	88

Description

5000698769 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0546 MJ0546 Methanococcus jannaschii 2190 -11541533 4000708335 mj0546 (de:hypothetical protein mj0546) (db:swissprot) Y546_METJA Q57966 METHANOCOCCUS JANNASCHII 2190 -11541533 173582 hypothetical protein mj0546 (cl:hypothetical protein mj0546) (db:pir2.dat) (mp:rev483625-483455) B64368 B64368 Methanococcus jannaschii 2190 -11541533 246980 mj0546 m. jannaschii predicted coding region mj0546 (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1630) (re:1800) (di:complement) U67504 U67504 g1591251 Methanococcus jannaschii 2190 -11541533 6500737675 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0546 MJ0546 Methanococcus jannaschii 2190 -11541533

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937189	21375	43531	666	221

Description

5000698770 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0548 MJ0548 Methanococcus jannaschii 2190 -11541534 4000708336 mj0548 (de:hypothetical protein mj0548) (db:swissprot) Y548_METJA Q57968 METHANOCOCCUS JANNASCHII 2190 -11541534 173583 hypothetical protein mj0548 (db:pir2.dat) (mp:rev485469-484588) D64368 D64368 Methanococcus jannaschii 2190 -11541534 246982 mj0548 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 31.00;) (le:2763) (re:3644) (di:complement) U67504 U67504 g1591253 Methanococcus jannaschii 2190 -11541534 6500737676 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0548 MJ0548 Methanococcus jannaschii 2190 -11541534

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937192	21376	43532	186	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937210	21377	43533	396	132

Description

5000698771 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0549 MJ0549 Methanococcus jannaschii 2190 -11541535 4000708337 mj0549 (de:hypothetical protein mj0549) (db:swissprot) Y549_METJA Q57969 METHANOCOCCUS JANNASCHII 2190 -11541535 173230 hypothetical protein homolog mj0549 (cl:conserved hypothetical protein mj0080) (db:pir2.dat) (mp:for485581-486006) E64368 E64368 Methanococcus jannaschii 2190 -11541535 246983 mj0549 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:similar to sp:p28910 pid:147625 pid:466617) (le:3756) (re:4181) (di:direct) U67504 U67504 g1591254 Methanococcus jannaschii 2190 -11541535 6500737677 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0549 MJ0549 Methanococcus jannaschii 2190 -11541535

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937211	21378	43534	528	175

Description

5000698772 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0550 MJ0550 Methanococcus jannaschii 2190 -11541536 4000708338 mj0550 (de:hypothetical protein mj0550) (db:swissprot) Y550_METJA Q57970 METHANOCOCCUS JANNASCHII 2190 -11541536 173584 conserved hypothetical protein mj0550 (cl:methanococcus jannaschii conserved hypothetical protein mj0550) (db:pir2.dat) (mp:rev487108-486011) F64368 F64368 Methanococcus jannaschii 2190 -11541536 246984 mj0550 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 40.68;) (le:4186) (re:5283) (di:complement) U67504 U67504 g1591255 Methanococcus jannaschii 2190 -11541536 6500737678 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0550 MJ0550 Methanococcus jannaschii 2190 -11541536

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937216	21379	43535	540	180

Description

5000698773 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0553 MJ0553 Methanococcus jannaschii 2190 -11541537 5500686327 mj0553 (de:hypothetical protein mj0553) (db:swissprot) Y553_METJA Q57973 METHANOCOCCUS JANNASCHII 2190 -11541537 173586 hypothetical protein mj0553 (db:pir2.dat) (mp:rev489385-488924) A64369 A64369 Methanococcus jannaschii 2190 -11541537 246987 mj0553 m. jannaschii predicted coding region mj0553 (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7099) (re:7560) (di:complement) U67504 U67504 g1591258 Methanococcus jannaschii 2190 -11541537 6500737679 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0553 MJ0553 Methanococcus jannaschii 2190 -11541537

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937244	21380	43536	603	201

Description

5000698774 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0554 MJ0554 Methanococcus jannaschii 2190 -11541538 118844 mj0554 (de:hypothetical protein mj0554) (db:swissprot) Y554_METJA Q57974 METHANOCOCCUS JANNASCHII 2190 -11541538 173587 hypothetical protein mj0554 (cl:conserved hypothetical protein mj0129) (db:pir2.dat) (mp:rev490367-489909) B64369 B64369 Methanococcus jannaschii 2190 -11541538 246988 mj0554 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:similar to pid:809710 percent identity: 25.35;) (le:8084) (re:8542) (di:complement) U67504 U67504 g1591259 Methanococcus jannaschii 2190 -11541538 6500737680 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0554 MJ0554 Methanococcus jannaschii 2190 -11541538

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937248	21381	43537	294	97

Description

5000698775 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0556 MJ0556 Methanococcus jannaschii 2190 -11541539 4000708341 mj0556 (de:hypothetical protein mj0556) (db:swissprot) Y556_METJA Q57976 METHANOCOCCUS JANNASCHII 2190 -11541539 173588 hypothetical protein mj0556 (db:pir2.dat) (mp:rev492431-491874) D64369 D64369 Methanococcus jannaschii 2190 -11541539 246990 mj0556 m. jannaschii predicted coding region mj0556 (db:genpept-bct1) (de:methanococcus jannaschii section 46 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10049) (re:10606) (di:complement) U67504 U67504 g1591261 Methanococcus jannaschii 2190 -11541539 6500737681 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0556 MJ0556 Methanococcus jannaschii 2190 -11541539

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937256	21382	43538	537	179

Description

5000698776 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0557 MJ0557 Methanococcus jannaschii 2190 -11541540 173589 hypothetical protein mj0557 (db:pir2.dat) (mp:rev493188-492571) E64369 E64369 Methanococcus jannaschii 2190 -11541540 246991 mj0557 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:similar to pid:577197 percent identity: 37.14;) (le:95) (re:712) (di:complement) U67505 U67505 g1591263 Methanococcus jannaschii 2190 -11541540 6500737682 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0557 MJ0557 Methanococcus jannaschii 2190 -11541540

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937257	21383	43539	465	154

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937260	21384	43540	420	140

Description

5000698777 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0558 MJ0558 Methanococcus jannaschii 2190 -11541541 4000708342 mj0558 (de:hypothetical protein mj0558) (db:swissprot) Y558_METJA Q57978 METHANOCOCCUS JANNASCHII 2190 -11541541 173590 conserved hypothetical protein mj0558 (cl:methanococcus jannaschii conserved hypothetical protein mj0558) (db:pir2.dat) (mp:rev493986-493201) F64369 F64369 Methanococcus jannaschii 2190 -11541541 246992 mj0558 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 41.96;) (le:725) (re:1510) (di:complement) U67505 U67505 g1591264 Methanococcus jannaschii 2190 -11541541 6500737683 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0558 MJ0558 Methanococcus jannaschii 2190 -11541541

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937261	21385	43541	411	136

Description

5000698778 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0560 MJ0560 Methanococcus jannaschii 2190 -11541542 4000708343 mj0560 (de:hypothetical protein mj0560) (db:swissprot) Y560_METJA Q57980 METHANOCOCCUS JANNASCHII 2190 -11541542 173591 hypothetical protein mj0560 (db:pir2.dat) (mp:rev495306-494890) H64369 H64369 Methanococcus jannaschii 2190 -11541542 246994 mj0560 m. jannaschii predicted coding region mj0560 (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2414) (re:2830) (di:complement) U67505 U67505 g1591266 Methanococcus jannaschii 2190 -11541542 6500737684 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0560 MJ0560 Methanococcus jannaschii 2190 -11541542

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937262	21386	43542	333	110

Description

5000698779 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0562 MJ0562 Methanococcus jannaschii 2190 -11541543 4000708344 mj0562 (de:hypothetical protein mj0562) (db:swissprot) Y562_METJA Q57982 METHANOCOCCUS JANNASCHII 2190 -11541543 173592 hypothetical protein mj0562 (db:pir2.dat) (mp:rev496914-496690) B64370 B64370 Methanococcus jannaschii 2190 -11541543 246996 mj0562 m. jannaschii predicted coding region mj0562 (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:invalid gene; identified by genemark; putative) (le:4214) (re:4438) (di:complement) U67505 U67505 g1591268 Methanococcus jannaschii 2190 -11541543 6500737685 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0562 MJ0562 Methanococcus jannaschii 2190 -11541543

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937269	21387	43543	465	155

Description

5000698780 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0565 MJ0565 Methanococcus jannaschii 2190 -11541544 4000708345 mj0565 (de:hypothetical protein mj0565) (db:swissprot) Y565_METJA Q57985 METHANOCOCCUS JANNASCHII 2190 -11541544 173593 hypothetical protein mj0565 (db:pir2.dat) (mp:rev502488-502045) E64370 E64370 Methanococcus jannaschii 2190 -11541544 246999 mj0565 m. jannaschii predicted coding region mj0565 (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9569) (re:10012) (di:complement) U67505 U67505 g1591271 Methanococcus jannaschii 2190 -11541544 6500737686 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0565 MJ0565 Methanococcus jannaschii 2190 -11541544

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937282	21388	43544	243	80

Description

GTC ORF with score 98 to: (de:(ydr264c) (pn:ankyrin repeat-containing protein akr1:ankyrin repeat-containing protein) (gn:d9954:akr1) (gtcfc:12.9) (ec:) (akr1_yeast) (keggfc:11.2) (sgdfc:3.3.0:10.1.6) (db:gtc-saccharomyces cerevisiae))

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937286	21389	43545	234	78

Description

5000698781 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0567 MJ0567 Methanococcus jannaschii 2190 -11541545 4000708346 mj0567 (de:hypothetical protein mj0567) (db:swissprot) Y567_METJA Q57987 METHANOCOCCUS JANNASCHII 2190 -11541545 173594 conserved hypothetical protein mj0567 (cl:methanococcus jannaschii conserved hypothetical protein mj0567) (db:pir2.dat) (mp:rev504744-504496) G64370 G64370 Methanococcus jannaschii 2190 -11541545 247001 mj0567 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 47 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 43.24;) (le:12020) (re:12268) (di:complement) U67505 U67505 g1591273 Methanococcus jannaschii 2190 -11541545 6500737687 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0567 MJ0567 Methanococcus jannaschii 2190 -11541545

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937289	21390	43546	195	65

Description

5000698783 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0570 MJ0570 Methanococcus jannaschii 2190 -11541546 4000708348 mj0570 (de:hypothetical protein mj0570) (db:swissprot) Y570_METJA Q57990 METHANOCOCCUS JANNASCHII 2190 -11541546 173596 hypothetical protein mj0570 (cl:hypothetical protein mj0570) (db:pir2.dat) (mp:rev506782-506111) B64371 B64371 Methanococcus jannaschii 2190 -11541546 247004 mj0570 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to pid:1256896 pid:1256896 pid:1360566) (le:1340) (re:2011) (di:complement) U67506 U67506 g1591277 Methanococcus jannaschii 2190 -11541546 6500737688 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0570 MJ0570 Methanococcus jannaschii 2190 -11541546

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937294	21391	43547	471	156

Description

5000698784 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0572 MJ0572 Methanococcus jannaschii 2190 -11541547 4000708349 mj0572 (de:hypothetical protein mj0572) (db:swissprot) Y572_METJA Q57992 METHANOCOCCUS JANNASCHII 2190 -11541547 173597 hypothetical protein mj0572 (cl:tetratricopeptide repeat homology) (db:pir2.dat) (mp:for509862-510122) D64371 D64371 Methanococcus jannaschii 2190 -11541547 247006 mj0572 m. jannaschii predicted coding region mj0572 (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5091) (re:5351) (di:direct) U67506 U67506 g1591279 Methanococcus jannaschii 2190 -11541547 6500737689 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0572 MJ0572 Methanococcus jannaschii 2190 -11541547

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937309	21392	43548	744	247

Description

5000698785 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0573 MJ0573 Methanococcus jannaschii 2190 -11541548 4000708350 mj0573 (de:hypothetical protein mj0573) (db:swissprot) Y573_METJA Q57993 METHANOCOCCUS JANNASCHII 2190 -11541548 173598 hypothetical protein mj0573 (db:pir2.dat) (mp:for510264-510833) E64371 E64371 Methanococcus jannaschii 2190 -11541548 247007 mj0573 m. jannaschii predicted coding region mj0573 (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5493) (re:6062) (di:direct) U67506 U67506 g1591280 Methanococcus jannaschii 2190 -11541548 6500737690 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0573 MJ0573 Methanococcus jannaschii 2190 -11541548

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937318	21393	43549	537	179

Description

5000698786 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0574 MJ0574 Methanococcus jannaschii 2190 -11541549 4000708351 mj0574 (de:hypothetical protein mj0574) (db:swissprot) Y574_METJA Q57994 METHANOCOCCUS JANNASCHII 2190 -11541549 173599 hypothetical protein mj0574 (db:pir2.dat) (mp:for510867-511148) F64371 F64371 Methanococcus jannaschii 2190 -11541549 247008 mj0574 m. jannaschii predicted coding region mj0574 (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6096) (re:6377) (di:direct) U67506 U67506 g1591281 Methanococcus jannaschii 2190 -11541549 6500737691 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0574 MJ0574 Methanococcus jannaschii 2190 -11541549

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937320	21394	43550	486	162

Description

5000698787 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0575 MJ0575 Methanococcus jannaschii 2190 -11541550 4000708352 mj0575 (de:hypothetical protein mj0575) (db:swissprot) Y575_METJA Q57995 METHANOCOCCUS JANNASCHII 2190 -11541550 173600 conserved hypothetical protein mj0575 (cl:methanococcus jannaschii conserved hypothetical protein mj0575) (db:pir2.dat) (mp:for511123-511812) G64371 G64371 Methanococcus jannaschii 2190 -11541550 247009 mj0575 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 36.11;) (le:6352) (re:7041) (di:direct) U67506 U67506 g1591282 Methanococcus jannaschii 2190 -11541550 6500737692 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0575 MJ0575 Methanococcus jannaschii 2190 -11541550

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937327	21395	43551	555	185

Description

5000698788 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0577 MJ0577 Methanococcus jannaschii 2190 -11541551 4000709963 mj0577 (de:protein mj0577) (db:swissprot) Y577_METJA Q57997 METHANOCOCCUS JANNASCHII 2190 -11541551 173231 hypothetical protein homolog mj0577 (cl:escherichia coli ybdq protein) (db:pir2.dat) (mp:for512975-513463) A64372 A64372 Methanococcus jannaschii 2190 -11541551 247011 mj0577 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to sp:p42297 pid:603780 pid:849027) (le:8204) (re:8692) (di:direct) U67506 U67506 g1591284 Methanococcus jannaschii 2190 -11541551 6500737693 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0577 MJ0577 Methanococcus jannaschii 2190 -11541551

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937328	21396	43552	363	121

Description

5000698789 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0580 MJ0580 Methanococcus jannaschii 2190 -11541552 5500686330 mj0580 (de:hypothetical protein mj0580) (db:swissprot) Y580_METJA Q58000 METHANOCOCCUS JANNASCHII 2190 -11541552 173601 hypothetical protein mj0580 (cl:conserved hypothetical protein mj0580) (db:pir2.dat) (mp:rev515430-515074) D64372 D64372 Methanococcus jannaschii 2190 -11541552 247014 mj0580 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 48 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 44.55;) (le:10303) (re:10659) (di:complement) U67506 U67506 g1591287 Methanococcus jannaschii 2190 -11541552 6500737694 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0580 MJ0580 Methanococcus jannaschii 2190 -11541552

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937329	21397	43553	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937335	21398	43554	615	205

Description

5000698790 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0581 MJ0581 Methanococcus jannaschii 2190 -11541553 4000708006 mj0581 (de:hypothetical protein mj0581) (db:swissprot) Y581_METJA Q58001 METHANOCOCCUS JANNASCHII 2190 -11541553 173602 hypothetical protein mj0581 (cl:probable glutaredoxin grx-2) (db:pir2.dat) (mp:for515682-515942) E64372 E64372 Methanococcus jannaschii 2190 -11541553 247015 mj0581 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:similar to gp:1613872 percent identity: 40.79;) (le:151) (re:411) (di:direct) U67507 U67507 g1591289 Methanococcus jannaschii 2190 -11541553 6500737695 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0581 MJ0581 Methanococcus jannaschii 2190 -11541553

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937337	21399	43555	549	183

Description

5000698791 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0582 MJ0582 Methanococcus jannaschii 2190 -11541554 4000708355 mj0582 (de:hypothetical protein mj0582) (db:swissprot) Y582_METJA Q58002 METHANOCOCCUS JANNASCHII 2190 -11541554 173603 hypothetical protein mj0582 (db:pir2.dat) (mp:for515942-516328) F64372 F64372 Methanococcus jannaschii 2190 -11541554 247016 mj0582 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 34.74;) (le:411) (re:797) (di:direct) U67507 U67507 g1591290 Methanococcus jannaschii 2190 -11541554 6500737696 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0582 MJ0582 Methanococcus jannaschii 2190 -11541554

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937340	21400	43556	564	188

Description

5000698792 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0583 MJ0583 Methanococcus jannaschii 2190 -11541555 4000708356 mj0583 (de:hypothetical protein mj0583) (db:swissprot) Y583_METJA Q58003 METHANOCOCCUS JANNASCHII 2190 -11541555 173604 hypothetical protein mj0583 (db:pir2.dat) (mp:for516395-516568) G64372 G64372 Methanococcus jannaschii 2190 -11541555 247017 mj0583 m. jannaschii predicted coding region mj0583 (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:864) (re:1037) (di:direct) U67507 U67507 g1591291 Methanococcus jannaschii 2190 -11541555 6500737697 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0583 MJ0583 Methanococcus jannaschii 2190 -11541555

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937363	21401	43557	339	112

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937370	21402	43558	540	180

Description

5000698793 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0584 MJ0584 Methanococcus jannaschii 2190 -11541556 7502853926 mj0584 (de:hypothetical protein mj0584) (db:swissprot) Y584_METJA Q58004 METHANOCOCCUS JANNASCHII 2190 -11541556 173605 hypothetical protein mj0584 (cl:hypothetical protein mj0584) (db:pir2.dat) (mp:for516565-517662) H64372 H64372 Methanococcus jannaschii 2190 -11541556 247018 mj0584 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 37.98;) (le:1034) (re:2131) (di:direct) U67507 U67507 g1591292 Methanococcus jannaschii 2190 -11541556 6500737698 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0584 MJ0584 Methanococcus jannaschii 2190 -11541556

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937393	21403	43559	408	135

Description

5000698794 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0585 MJ0585 Methanococcus jannaschii 2190 -11541557 4000708358 mj0585 (de:hypothetical protein mj0585) (db:swissprot) Y585_METJA Q58005 METHANOCOCCUS JANNASCHII 2190 -11541557 173606 hypothetical protein mj0585 (db:pir2.dat) (mp:for517682-518299) A64373 A64373 Methanococcus jannaschii 2190 -11541557 247019 mj0585 m. jannaschii predicted coding region mj0585 (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2151) (re:2768) (di:direct) U67507 U67507 g1591293 Methanococcus jannaschii 2190 -11541557 6500737699 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0585 MJ0585 Methanococcus jannaschii 2190 -11541557

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937399	21404	43560	438	146

Description

5000698795 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0586 MJ0586 Methanococcus jannaschii 2190 -11541558 4000708359 mj0586 (de:hypothetical protein mj0586) (db:swissprot) Y586_METJA Q58006 METHANOCOCCUS JANNASCHII 2190 -11541558 173607 hypothetical protein mj0586 (cl:conserved hypothetical protein mj0586) (db:pir2.dat) (mp:for518550-519062) B64373 B64373 Methanococcus jannaschii 2190 -11541558 247020 mj0586 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 41.18;) (le:3019) (re:3531) (di:direct) U67507 U67507 g1591294 Methanococcus jannaschii 2190 -11541558 6500737700 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0586 MJ0586 Methanococcus jannaschii 2190 -11541558

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937414	21405	43561	627	209

Description

5000698796 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0587 MJ0587 Methanococcus jannaschii 2190 -11541559 118845 mj0587 (de:hypothetical protein mj0587) (db:swissprot) Y587_METJA Q58007 METHANOCOCCUS JANNASCHII 2190 -11541559 173608 hypothetical protein mj0587 (cl:conserved hypothetical protein mj0129) (db:pir2.dat) (mp:rev519996-519535) C64373 C64373 Methanococcus jannaschii 2190 -11541559 247021 mj0587 m. jannaschii predicted coding region mj0587 (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4004) (re:4465) (di:complement) U67507 U67507 g1591295 Methanococcus jannaschii 2190 -11541559 6500737701 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0587 MJ0587 Methanococcus jannaschii 2190 -11541559

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937430	21406	43562	282	93

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937441	21407	43563	351	117

Description

5000698797 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0588 MJ0588 Methanococcus jannaschii 2190 -11541560 4000709973 mj0588 (de:hypothetical protein mj0588) (db:swissprot) Y588_METJA Q58008 METHANOCOCCUS JANNASCHII 2190 -11541560 173232 hypothetical protein homolog mj0588 (db:pir2.dat) (mp:rev521409-520117) D64373 D64373 Methanococcus jannaschii 2190 -11541560 247022 mj0588 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:similar to gb:l07942 sp:p36664 pid:1036739) (le:4586) (re:5878) (di:complement) U67507 U67507 g1591296 Methanococcus jannaschii 2190 -11541560 6500737702 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0588 MJ0588 Methanococcus jannaschii 2190 -11541560

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937470	21408	43564	546	181

Description

5000698798 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0589 MJ0589 Methanococcus jannaschii 2190 -11541561 4000708360 mj0589 (de:hypothetical protein mj0589) (db:swissprot) Y589_METJA Q58009 METHANOCOCCUS JANNASCHII 2190 -11541561 173609 hypothetical protein mj0589 (db:pir2.dat) (mp:for521465-521773) E64373 E64373 Methanococcus jannaschii 2190 -11541561 247023 mj0589 m. jannaschii predicted coding region mj0589 (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5934) (re:6242) (di:direct) U67507 U67507 g1591297 Methanococcus jannaschii 2190 -11541561 6500737703 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0589 MJ0589 Methanococcus jannaschii 2190 -11541561

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937479	21409	43565	231	76

Description

5000698799 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0590 MJ0590 Methanococcus jannaschii 2190 -11541562 4000708361 mj0590 (de:hypothetical protein mj0590) (db:swissprot) Y590_METJA Q58010 METHANOCOCCUS JANNASCHII 2190 -11541562 173233 hypothetical protein homolog mj0590 (cl:hypothetical protein mj0590) (db:pir2.dat) (mp:for522030-524144) F64373 F64373 Methanococcus jannaschii 2190 -11541562 247024 mj0590 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 49 of 150 of the complete genome.) (nt:similar to pid:987653 gb:u00096 sp:p76594) (le:6499) (re:8613) (di:direct) U67507 U67507 g1591298 Methanococcus jannaschii 2190 -11541562 6500737704 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0590 MJ0590 Methanococcus jannaschii 2190 -11541562

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937487	21410	43566	339	112

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937499	21411	43567	207	69

Description

5000698800 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0592 MJ0592 Methanococcus jannaschii 2190 -11541563 4000709969 mj0592 (de:hypothetical protein mj0592) (db:swissprot) Y592_METJA Q58011 METHANOCOCCUS JANNASCHII 2190 -11541563 173610 hypothetical protein mj0592 (db:pir2.dat) (mp:for525640-526362) H64373 H64373 Methanococcus jannaschii 2190 -11541563 247026 mj0592 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to sp:q07953 pid:1360328 percent identity:) (le:93) (re:815) (di:direct) U67508 U67508 g1592297 Methanococcus jannaschii 2190 -11541563 6500737705 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0592 MJ0592 Methanococcus jannaschii 2190 -11541563

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937511	21412	43568	261	86

Description

5000698801 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0594 MJ0594 Methanococcus jannaschii 2190 -11541564 4000708362 mj0594 (de:hypothetical protein mj0594) (db:swissprot) Y594_METJA Q58012 METHANOCOCCUS JANNASCHII 2190 -11541564 173611 hypothetical protein mj0594 (db:pir2.dat) (mp:for526888-527397) B64374 B64374 Methanococcus jannaschii 2190 -11541564 247028 mj0594 m. jannaschii predicted coding region mj0594 (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1341) (re:1850) (di:direct) U67508 U67508 g1591303 Methanococcus jannaschii 2190 -11541564 6500737706 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0594 MJ0594 Methanococcus jannaschii 2190 -11541564

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937514	21413	43569	510	170

Description

5000698802 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0596 MJ0596 Methanococcus jannaschii 2190 -11541565 4000708363 mj0596 (de:hypothetical protein mj0596) (db:swissprot) Y596_METJA Q58013 METHANOCOCCUS JANNASCHII 2190 -11541565 173612 hypothetical protein mj0596 (db:pir2.dat) (mp:for528055-528480) D64374 D64374 Methanococcus jannaschii 2190 -11541565 247030 mj0596 m. jannaschii predicted coding region mj0596 (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:invalid gene; identified by genemark; putative) (le:2508) (re:2933) (di:direct) U67508 U67508 g1591305 Methanococcus jannaschii 2190 -11541565 6500737707 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0596 MJ0596 Methanococcus jannaschii 2190 -11541565

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937515	21414	43570	243	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937527	21415	43571	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937528	21416	43572	324	108

Description

5000698803 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0597 MJ0597 Methanococcus jannaschii 2190 -11541566 4000708364 mj0597 (de:hypothetical protein mj0597) (db:swissprot) Y597_METJA Q58014 METHANOCOCCUS JANNASCHII 2190 -11541566 173613 hypothetical protein mj0597 (db:pir2.dat) (mp:for528544-529617) E64374 E64374 Methanococcus jannaschii 2190 -11541566 247031 mj0597 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:similar to pid:747640 gb:ae000666 percent identity:) (le:2997) (re:4070) (di:direct) U67508 U67508 g1591306 Methanococcus jannaschii 2190 -11541566 6500737708 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0597 MJ0597 Methanococcus jannaschii 2190 -11541566

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937537	21417	43573	489	162

Description

5000698804 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0599 MJ0599 Methanococcus jannaschii 2190 -11541567 4000708365 mj0599 (de:hypothetical protein mj0599) (db:swissprot) Y599_METJA Q58016 METHANOCOCCUS JANNASCHII 2190 -11541567 173614 hypothetical protein mj0599 (db:pir2.dat) (mp:for530526-531125) G64374 G64374 Methanococcus jannaschii 2190 -11541567 247033 mj0599 m. jannaschii predicted coding region mj0599 (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:invalid gene; identified by genemark; putative) (le:4979) (re:5578) (di:direct) U67508 U67508 g1591308 Methanococcus jannaschii 2190 -11541567 6500737709 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0599 MJ0599 Methanococcus jannaschii 2190 -11541567

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937538	21418	43574	486	161

Description

5000698805 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0602 MJ0602 Methanococcus jannaschii 2190 -11541568 4000708366 mj0602 (de:hypothetical protein mj0602) (db:swissprot) Y602_METJA Q58019 METHANOCOCCUS JANNASCHII 2190 -11541568 173615 hypothetical protein mj0602 (db:pir2.dat) (mp:rev533754-532969) B64375 B64375 Methanococcus jannaschii 2190 -11541568 247036 mj0602 m. jannaschii predicted coding region mj0602 (db:genpept-bct1) (de:methanococcus jannaschii section 50 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7422) (re:8207) (di:complement) U67508 U67508 g1591311 Methanococcus jannaschii 2190 -11541568 6500737710 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0602 MJ0602 Methanococcus jannaschii 2190 -11541568

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937544	21419	43575	468	155

Description

GTC ORF with score 108 to: (sr:thale cress) (db:genpept-pln1) (de:arabidopsis thaliana dna chromosome 4, essa i ap2 contig fragmentno. 2.) (nt:similarity to nadh dehydrogenase, chondrus crispus;) (le:135069:135827) (re:135246:135898) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937551	21420	43576	441	146

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937557	21421	43577	453	150

Description

5000698808 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0606 MJ0606 Methanococcus jannaschii 2190 -11541569 4000708367 mj0606 (de:hypothetical protein mj0606) (db:swissprot) Y606_METJA Q58023 METHANOCOCCUS JANNASCHII 2190 -11541569 173618 hypothetical protein mj0606 (db:pir2.dat) (mp:rev536196-535921) F64375 F64375 Methanococcus jannaschii 2190 -11541569 247040 mj0606 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 51 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 32.18;) (le:63) (re:338) (di:complement) U67509 U67509 g1591316 Methanococcus jannaschii 2190 -11541569 6500737711 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0606 MJ0606 Methanococcus jannaschii 2190 -11541569

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937569	21422	43578	324	108

Description

5000698809 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0607 MJ0607 Methanococcus jannaschii 2190 -11541570 4000708368 mj0607 (de:hypothetical protein mj0607) (db:swissprot) Y607_METJA Q58024 METHANOCOCCUS JANNASCHII 2190 -11541570 173619 hypothetical protein mj0607 (db:pir2.dat) (mp:rev536437-536198) G64375 G64375 Methanococcus jannaschii 2190 -11541570 247041 mj0607 m. jannaschii predicted coding region mj0607 (db:genpept-bct1) (de:methanococcus jannaschii section 51 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:340) (re:579) (di:complement) U67509 U67509 g1591317 Methanococcus jannaschii 2190 -11541570 6500737712 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0607 MJ0607 Methanococcus jannaschii 2190 -11541570

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937575	21423	43579	261	86

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937589	21424	43580	441	147

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937601	21425	43581	447	148

Description

GTC ORF with score 125 to: (sr:glomerella cingulata strain=icmp 11061) (db:genpept-pln1) (de:glomerella cingulata secreted aspartic proteinase precursor (gcsap)gene, complete cds.) (nt:degrades proteins; extracellular; gcsap) (le:105:905) (re:831:1401)...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937609	21426	43582	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937613	21427	43583	513	170

Description

GTC ORF with score 285 to: (fn:posttranslational modification of specific) (sr:baker's yeast) (db:genpept-pln2) (de:saccharomyces cerevisiae biotin-apoprotein ligase (bpl1) gene,complete cds, and rna polymerase ii subunit (rpo21) gene, partialcds.) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937626	21428	43584	570	189

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937635	21429	43585	687	228

Description

5000698810 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0610 MJ0610 Methanococcus jannaschii 2190 -11541571 4000708371 mj0610 (de:hypothetical protein mj0610) (db:swissprot) Y610_METJA Q58027 METHANOCOCCUS JANNASCHII 2190 -11541571 173620 hypothetical protein mj0610 (db:pir2.dat) (mp:rev540396-539092) B64376 B64376 Methanococcus jannaschii 2190 -11541571 247044 mj0610 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 51 of 150 of the complete genome.) (nt:similar to gp:1403176 percent identity: 34.07;) (le:3234) (re:4538) (di:complement) U67509 U67509 g1591320 Methanococcus jannaschii 2190 -11541571 6500737713 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0610 MJ0610 Methanococcus jannaschii 2190 -11541571

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937636	21430	43586	579	192

Description

5000698311 conserved hypothetical integral membrane protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0611 MJ0611 Methanococcus jannaschii 2190 -11541572 4000708372 mj0611 (de:hypothetical protein mj0611) (db:swissprot) Y611_METJA Q58028 METHANOCOCCUS JANNASCHII 2190 -11541572 174319 membrane protein homolog (cl:conserved hypothetical protein mth986) (db:pir2.dat) (mp:for541112-541687) C64376 C64376 Methanococcus jannaschii 2190 -11541572 247045 mj0611 conserved hypothetical integral membrane (db:genpept-bct1) (de:methanococcus jannaschii section 51 of 150 of the complete genome.) (nt:similar to gp:1565238 percent identity: 34.56;) (le:5254) (re:5829) (di:direct) U67509 U67509 g1591321 Methanococcus jannaschii 2190 -11541572 6500737714 conserved hypothetical integral membrane protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0611 MJ0611 Methanococcus jannaschii 2190 -11541572

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937637	21431	43587	327	108

Description

5000698811 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0614 MJ0614 Methanococcus jannaschii 2190 -11541573 4000708373 mj0614 (de:hypothetical protein mj0614) (db:swissprot) Y614_METJA Q58031 METHANOCOCCUS JANNASCHII 2190 -11541573 173621 hypothetical protein mj0614 (cl:hypothetical protein mj0614) (db:pir2.dat) (mp:rev545452-545060) F64376 F64376 Methanococcus jannaschii 2190 -11541573 247048 mj0614 m. jannaschii predicted coding region mj0614 (db:genpept-bct1) (de:methanococcus jannaschii section 51 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9202) (re:9594) (di:complement) U67509 U67509 g1591324 Methanococcus jannaschii 2190 -11541573 6500737715 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0614 MJ0614 Methanococcus jannaschii 2190 -11541573

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937639	21432	43588	939	313

Description

GTC ORF with score 106 to: (sr:escherichia coli (strain:k12) dna, clone_lib:kohara lambda minise) (db:genpept-bct1) (de:e.coli genomic dna, kohara clone #443(59.8-60.2 min.).) (nt:similar to (swissprot accession number p52143)) (le:<1) (re:1165) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937646	21433	43589	471	156

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937655	21434	43590	234	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937664	21435	43591	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937665	21436	43592	291	96

Description

5000698812 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0618 MJ0618 Methanococcus jannaschii 2190 -11541574 4000708374 mj0618 (de:hypothetical protein mj0618) (db:swissprot) Y618_METJA Q58035 METHANOCOCCUS JANNASCHII 2190 -11541574 173622 conserved hypothetical protein mj0618 (cl:methanococcus jannaschii conserved hypothetical protein mj0618) (db:pir2.dat) (mp:rev547879-547583) B64377 B64377 Methanococcus jannaschii 2190 -11541574 247052 mj0618 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 41.76;) (le:2034) (re:2330) (di:complement) U67510 U67510 g1591329 Methanococcus jannaschii 2190 -11541574 6500737716 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0618 MJ0618 Methanococcus jannaschii 2190 -11541574

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937666	21437	43593	483	160

Description

5000699425 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0619 MJ0619 Methanococcus jannaschii 2190 -11541575 4000708375 mj0619 (de:hypothetical protein mj0619) (db:swissprot) Y619_METJA Q58036 METHANOCOCCUS JANNASCHII 2190 -11541575 173623 hypothetical protein mj0619 (cl:conserved hypothetical protein mth831) (db:pir2.dat) (mp:rev549380-547860) C64377 C64377 Methanococcus jannaschii 2190 -11541575 247053 mj0619 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to gb:z35277 sp:p39757 pid:516272) (le:2311) (re:3831) (di:complement) U67510 U67510 g1591330 Methanococcus jannaschii 2190 -11541575 6500737717 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0619 MJ0619 Methanococcus jannaschii 2190 -11541575

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937678	21438	43594	372	124

Description

5000698813 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0621 MJ0621 Methanococcus jannaschii 2190 -11541576 4000708377 mj0621 (de:hypothetical protein mj0621) (db:swissprot) Y621_METJA Q58038 METHANOCOCCUS JANNASCHII 2190 -11541576 173624 hypothetical protein mj0621 (cl:hypothetical protein mj0621) (db:pir2.dat) (mp:rev551090-550572) E64377 E64377 Methanococcus jannaschii 2190 -11541576 247055 mj0621 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 39.10;) (le:5023) (re:5541) (di:complement) U67510 U67510 g1591332 Methanococcus jannaschii 2190 -11541576 6500737718 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0621 MJ0621 Methanococcus jannaschii 2190 -11541576

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937685	21439	43595	246	81

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937688	21440	43596	654	218

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937698	21441	43597	552	184

Description

5000699426 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0623 MJ0623 Methanococcus jannaschii 2190 -11541577 4000709976 mj0623 (de:hypothetical protein mj0623) (db:swissprot) Y623_METJA Q58040 METHANOCOCCUS JANNASCHII 2190 -11541577 173625 hypothetical protein mj0623 (db:pir2.dat) (mp:for552789-553367) G64377 G64377 Methanococcus jannaschii 2190 -11541577 247057 mj0623 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to gp:1673676 percent identity: 33.33;) (le:7240) (re:7818) (di:direct) U67510 U67510 g1591334 Methanococcus jannaschii 2190 -11541577 6500737719 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0623 MJ0623 Methanococcus jannaschii 2190 -11541577

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937699	21442	43598	816	271

Description

5000698814 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0625 MJ0625 Methanococcus jannaschii 2190 -11541578 118937 mj0625 (de:hypothetical atp-binding protein mj0625) (db:swissprot) Y625_METJA Q58042 METHANOCOCCUS JANNASCHII 2190 -11541578 173626 hypothetical protein mj0625 (db:pir2.dat) (mp:for553608-554618) A64378 A64378 Methanococcus jannaschii 2190 -11541578 247059 mj0625 m. jannaschii predicted coding region mj0625 (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8059) (re:9069) (di:direct) U67510 U67510 g1591336 Methanococcus jannaschii 2190 -11541578 6500737720 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0625 MJ0625 Methanococcus jannaschii 2190 -11541578

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937707	21443	43599	510	170

Description

5000698815 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0626 MJ0626 Methanococcus jannaschii 2190 -11541579 4000708378 mj0626 (de:hypothetical protein mj0626) (db:swissprot) Y626_METJA Q58043 METHANOCOCCUS JANNASCHII 2190 -11541579 173627 conserved hypothetical protein mj0626 (cl:methanococcus jannaschii conserved hypothetical protein mj0626) (db:pir2.dat) (mp:for554711-555340) B64378 B64378 Methanococcus jannaschii 2190 -11541579 247060 mj0626 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 43.50;) (le:9162) (re:9791) (di:direct) U67510 U67510 g1591337 Methanococcus jannaschii 2190 -11541579 6500737721 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0626 MJ0626 Methanococcus jannaschii 2190 -11541579

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937713	21444	43600	669	222

Description

5000698816 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0627 MJ0627 Methanococcus jannaschii 2190 -11541580 4000708379 mj0627 (de:hypothetical protein mj0627) (db:swissprot) Y627_METJA Q58044 METHANOCOCCUS JANNASCHII 2190 -11541580 173628 hypothetical protein mj0627 (db:pir2.dat) (mp:for555371-555724) C64378 C64378 Methanococcus jannaschii 2190 -11541580 247061 mj0627 m. jannaschii predicted coding region mj0627 (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9822) (re:10175) (di:direct) U67510 U67510 g1591338 Methanococcus jannaschii 2190 -11541580 6500737722 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0627 MJ0627 Methanococcus jannaschii 2190 -11541580

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937730	21445	43601	435	145

Description

5000698817 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0628 MJ0628 Methanococcus jannaschii 2190 -11541581 4000708380 mj0628 (de:hypothetical protein mj0628) (db:swissprot) Y628_METJA Q58045 METHANOCOCCUS JANNASCHII 2190 -11541581 173629 hypothetical protein mj0628 (db:pir2.dat) (mp:for555708-556208) D64378 D64378 Methanococcus jannaschii 2190 -11541581 247062 mj0628 m. jannaschii predicted coding region mj0628 (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10159) (re:10659) (di:direct) U67510 U67510 g1591339 Methanococcus jannaschii 2190 -11541581 6500737723 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0628 MJ0628 Methanococcus jannaschii 2190 -11541581

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937733	21446	43602	525	175

Description

5000698818 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0629 MJ0629 Methanococcus jannaschii 2190 -11541582 4000708381 mj0629 (de:hypothetical protein mj0629) (db:swissprot) Y629_METJA Q58046 METHANOCOCCUS JANNASCHII 2190 -11541582 173630 hypothetical protein mj0629 (db:pir2.dat) (mp:for556210-556854) E64378 E64378 Methanococcus jannaschii 2190 -11541582 247063 mj0629 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 52 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 29.21;) (le:10661) (re:11305) (di:direct) U67510 U67510 g1591340 Methanococcus jannaschii 2190 -11541582 6500737724 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0629 MJ0629 Methanococcus jannaschii 2190 -11541582

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937734	21447	43603	759	252

Description

GTC ORF with score 355 to: (sr:thale cress c24) (db:genpept-pln1) (de:glycine-rich protein {clone atgrp-1} (arabidopsis thaliana, c24,mrna partial, 740 nt).) (nt:this sequence comes from fig. 3a; atgrp) (le:1) (re:634) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937735	21448	43604	528	175

Description

5000698819 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0634 MJ0634 Methanococcus jannaschii 2190 -11541583 4000708383 mj0634 (de:hypothetical protein mj0634) (db:swissprot) Y634_METJA Q58051 METHANOCOCCUS JANNASCHII 2190 -11541583 173632 hypothetical protein mj0634 (db:pir2.dat) (mp:for562708-564570) B64379 B64379 Methanococcus jannaschii 2190 -11541583 247068 mj0634 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 53 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44641 pid:1003549) (le:3279) (re:5141) (di:direct) U67511 U67511 g1591346 Methanococcus jannaschii 2190 -11541583 6500737725 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0634 MJ0634 Methanococcus jannaschii 2190 -11541583

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937736	21449	43605	786	262

Description

5000698820 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0635 MJ0635 Methanococcus jannaschii 2190 -11541584 5500686331 mj0635 (de:hypothetical protein mj0635) (db:swissprot) Y635_METJA Q58052 METHANOCOCCUS JANNASCHII 2190 -11541584 173633 hypothetical protein mj0635 (db:pir2.dat) (mp:for564790-565641) C64379 C64379 Methanococcus jannaschii 2190 -11541584 247069 mj0635 m. jannaschii predicted coding region mj0635 (db:genpept-bct1) (de:methanococcus jannaschii section 53 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5361) (re:6212) (di:direct) U67511 U67511 g1591347 Methanococcus jannaschii 2190 -11541584 6500737726 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0635 MJ0635 Methanococcus jannaschii 2190 -11541584

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937739	21450	43606	537	178

Description

5000698821 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0638 MJ0638 Methanococcus jannaschii 2190 -11541585 4000708385 mj0638 (de:hypothetical protein mj0638) (db:swissprot) Y638_METJA Q58055 METHANOCOCCUS JANNASCHII 2190 -11541585 173634 hypothetical protein mj0638 (cl:conserved hypothetical protein mj1123:bioc homology) (db:pir2.dat) (mp:rev568588-567911) F64379 F64379 Methanococcus jannaschii 2190 -11541585 247072 mj0638 m. jannaschii predicted coding region mj0638 (db:genpept-bct1) (de:methanococcus jannaschii section 53 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8482) (re:9159) (di:complement) U67511 U67511 g1499447 Methanococcus jannaschii 2190 -11541585 6500737727 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0638 MJ0638 Methanococcus jannaschii 2190 -11541585

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937749	21451	43607	279	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937750	21452	43608	561	187

Description

GTC ORF with score 217 to: (sr:baker's yeast strain=s288c (ab972)) (db:genpept-pln1) (de:saccharomyces cerevisiae chromosome v cosmids 9781, 8198, 9115,9981, and lambda clones 3955 and 6052.) (nt:yer110c) (le:4648) (re:7989) (di:complement)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937755	21453	43609	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937765	21454	43610	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937768	21455	43611	534	178

Description

5000698822 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0639 MJ0639 Methanococcus jannaschii 2190 -11541586 4000708386 mj0639 (de:hypothetical protein mj0639) (db:swissprot) Y639_METJA Q58056 METHANOCOCCUS JANNASCHII 2190 -11541586 173635 hypothetical protein mj0639 (db:pir2.dat) (mp:rev568914-568585) G64379 G64379 Methanococcus jannaschii 2190 -11541586 247073 mj0639 m. jannaschii predicted coding region mj0639 (db:genpept-bct1) (de:methanococcus jannaschii section 53 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9156) (re:9485) (di:complement) U67511 U67511 g1591350 Methanococcus jannaschii 2190 -11541586 6500737728 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0639 MJ0639 Methanococcus jannaschii 2190 -11541586

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937774	21456	43612	234	77

Description

5000698824 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0642 MJ0642 Methanococcus jannaschii 2190 -11541587 4000708388 mj0642 (de:hypothetical protein mj0642) (db:swissprot) Y642_METJA Q58059 METHANOCOCCUS JANNASCHII 2190 -11541587 173636 hypothetical protein mj0642 (db:pir2.dat) (mp:for571455-572456) B64380 B64380 Methanococcus jannaschii 2190 -11541587 247076 mj0642 m. jannaschii predicted coding region mj0642 (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1525) (re:2526) (di:direct) U67512 U67512 g1591354 Methanococcus jannaschii 2190 -11541587 6500737729 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0642 MJ0642 Methanococcus jannaschii 2190 -11541587

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937776	21457	43613	837	279

Description

5000698826 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0645 MJ0645 Methanococcus jannaschii 2190 -11541588 4000708390 mj0645 (de:hypothetical protein mj0645) (db:swissprot) Y645_METJA Q58061 METHANOCOCCUS JANNASCHII 2190 -11541588 173637 hypothetical protein mj0645 (cl:conserved hypothetical protein mj0645) (db:pir2.dat) (mp:for574173-574748) E64380 E64380 Methanococcus jannaschii 2190 -11541588 247079 mj0645 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 44.97;) (le:4243) (re:4818) (di:direct) U67512 U67512 g1591357 Methanococcus jannaschii 2190 -11541588 6500737730 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0645 MJ0645 Methanococcus jannaschii 2190 -11541588

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937786	21458	43614	537	179

Description

5000698827 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0646 MJ0646 Methanococcus jannaschii 2190 -11541589 4000708391 mj0646 (de:hypothetical protein mj0646) (db:swissprot) Y646_METJA Q58062 METHANOCOCCUS JANNASCHII 2190 -11541589 173638 hypothetical protein mj0646 (db:pir2.dat) (mp:for574759-575253) F64380 F64380 Methanococcus jannaschii 2190 -11541589 247080 mj0646 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 34.39;) (le:4829) (re:5323) (di:direct) U67512 U67512 g1591358 Methanococcus jannaschii 2190 -11541589 6500737731 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0646 MJ0646 Methanococcus jannaschii 2190 -11541589

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937797	21459	43615	480	160

Description

5000698828 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0647 MJ0647 Methanococcus jannaschii 2190 -11541590 7502853927 mj0647 (de:hypothetical protein mj0647) (db:swissprot) Y647_METJA Q58063 METHANOCOCCUS JANNASCHII 2190 -11541590 173639 hypothetical protein mj0647 (db:pir2.dat) (mp:rev575510-575295) G64380 G64380 Methanococcus jannaschii 2190 -11541590 247081 mj0647 m. jannaschii predicted coding region mj0647 (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5365) (re:5580) (di:complement) U67512 U67512 g1591359 Methanococcus jannaschii 2190 -11541590 6500737732 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0647 MJ0647 Methanococcus jannaschii 2190 -11541590

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937800	21460	43616	447	149

Description

GTC ORF with score 96 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid k07e12.) (nt:similar to cell adhesion molecule, especially) (le:12633:12861:13021:13416) (re:12770:12976:13367:13647) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937808	21461	43617	243	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937813	21462	43618	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937828	21463	43619	864	287

Description

5000698829 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0648 MJ0648 Methanococcus jannaschii 2190 -11541591 4000708393 mj0648 (de:hypothetical protein mj0648) (db:swissprot) Y648_METJA Q58064 METHANOCOCCUS JANNASCHII 2190 -11541591 173640 hypothetical protein mj0648 (db:pir2.dat) (mp:rev575883-575440) H64380 H64380 Methanococcus jannaschii 2190 -11541591 247082 mj0648 m. jannaschii predicted coding region mj0648 (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5510) (re:5953) (di:complement) U67512 U67512 g1591360 Methanococcus jannaschii 2190 -11541591 6500737733 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0648 MJ0648 Methanococcus jannaschii 2190 -11541591

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937831	21464	43620	576	192

Description

5000698830 hypothetical protein:hypothetical protein mj0650 precursor (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0650 MJ0650 Methanococcus jannaschii 2190 -11541592 4000708394 mj0650 (de:hypothetical protein mj0650 precursor) (db:swissprot) Y650_METJA Q57852 METHANOCOCCUS JANNASCHII 2190 -11541592 173641 hypothetical protein mj0650 (db:pir2.dat) (mp:for577448-579526) B64381 B64381 Methanococcus jannaschii 2190 -11541592 247084 mj0650 m. jannaschii predicted coding region mj0650 (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7518) (re:9596) (di:direct) U67512 U67512 g1591362 Methanococcus jannaschii 2190 -11541592 6500737734 hypothetical protein:hypothetical protein mj0650 precursor (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0650 MJ0650 Methanococcus jannaschii 2190 -11541592

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937834	21465	43621	258	86

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937843	21466	43622	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937846	21467	43623	255	84

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937856	21468	43624	597	199

Description

5000698831 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0652 MJ0652 Methanococcus jannaschii 2190 -11541593 4000708395 mj0652 (de:hypothetical protein mj0652) (db:swissprot) Y652_METJA Q58068 METHANOCOCCUS JANNASCHII 2190 -11541593 173642 conserved hypothetical protein mj0652 (cl:methanococcus jannaschii conserved hypothetical protein mj0652) (db:pir2.dat) (mp:rev580874-580470) D64381 D64381 Methanococcus jannaschii 2190 -11541593 247086 mj0652 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 54 of 150 of the complete genome.) (nt:similar to sp:p54454 pid:1303790 gb:al009126) (le:10540) (re:10944) (di:complement) U67512 U67512 g1591364 Methanococcus jannaschii 2190 -11541593 6500737735 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0652 MJ0652 Methanococcus jannaschii 2190 -11541593

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937857	21469	43625	771	257

Description

5000698833 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0659 MJ0659 Methanococcus jannaschii 2190 -11541594 4000708398 mj0659 (de:hypothetical protein mj0659) (db:swissprot) Y659_METJA Q58073 METHANOCOCCUS JANNASCHII 2190 -11541594 173643 hypothetical protein mj0659 (db:pir2.dat) (mp:for585628-586044) C64382 C64382 Methanococcus jannaschii 2190 -11541594 247093 mj0659 m. jannaschii predicted coding region mj0659 (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4726) (re:5142) (di:direct) U67513 U67513 g1591372 Methanococcus jannaschii 2190 -11541594 6500737736 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0659 MJ0659 Methanococcus jannaschii 2190 -11541594

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937861	21470	43626	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937891	21471	43627	618	206

Description

5000698834 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0660 MJ0660 Methanococcus jannaschii 2190 -11541595 4000708399 mj0660 (de:hypothetical protein mj0660) (db:swissprot) Y660_METJA Q58074 METHANOCOCCUS JANNASCHII 2190 -11541595 173644 hypothetical protein mj0660 (db:pir2.dat) (mp:rev586368-586135) D64382 D64382 Methanococcus jannaschii 2190 -11541595 247094 mj0660 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 60.00;) (le:5233) (re:5466) (di:complement) U67513 U67513 g1591373 Methanococcus jannaschii 2190 -11541595 6500737737 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0660 MJ0660 Methanococcus jannaschii 2190 -11541595

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937894	21472	43628	594	198

Description

5000698835 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0661 MJ0661 Methanococcus jannaschii 2190 -11541596 5500686334 mj0661 (de:hypothetical protein mj0661) (db:swissprot) Y661_METJA Q58075 METHANOCOCCUS JANNASCHII 2190 -11541596 173645 hypothetical protein mj0661 (db:pir2.dat) (mp:rev587043-586495) E64382 E64382 Methanococcus jannaschii 2190 -11541596 247095 mj0661 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:similar to gp:1001294 percent identity: 32.39;) (le:5593) (re:6141) (di:complement) U67513 U67513 g1591374 Methanococcus jannaschii 2190 -11541596 6500737738 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0661 MJ0661 Methanococcus jannaschii 2190 -11541596

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937895	21473	43629	720	239

Description

5000698836 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0662 MJ0662 Methanococcus jannaschii 2190 -11541597 4000708400 mj0662 (de:hypothetical protein mj0662) (db:swissprot) Y662_METJA Q58076 METHANOCOCCUS JANNASCHII 2190 -11541597 173646 hypothetical protein mj0662 (db:pir2.dat) (mp:rev587725-587006) F64382 F64382 Methanococcus jannaschii 2190 -11541597 247096 mj0662 m. jannaschii predicted coding region mj0662 (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6104) (re:6823) (di:complement) U67513 U67513 g1591375 Methanococcus jannaschii 2190 -11541597 6500737739 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0662 MJ0662 Methanococcus jannaschii 2190 -11541597

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937898	21474	43630	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937899	21475	43631	618	205

Description

5000698837 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0664 MJ0664 Methanococcus jannaschii 2190 -11541598 4000708401 mj0664 (de:hypothetical protein mj0664) (db:swissprot) Y664_METJA Q58078 METHANOCOCCUS JANNASCHII 2190 -11541598 173647 hypothetical protein mj0664 (db:pir2.dat) (mp:for589263-590168) H64382 H64382 Methanococcus jannaschii 2190 -11541598 247098 mj0664 m. jannaschii predicted coding region mj0664 (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8361) (re:9266) (di:direct) U67513 U67513 g1591377 Methanococcus jannaschii 2190 -11541598 6500737740 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0664 MJ0664 Methanococcus jannaschii 2190 -11541598

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937908	21476	43632	783	261

Description

5000698838 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0665 MJ0665 Methanococcus jannaschii 2190 -11541599 4000708402 mj0665 (de:hypothetical protein mj0665) (db:swissprot) Y665_METJA Q58079 METHANOCOCCUS JANNASCHII 2190 -11541599 173648 hypothetical protein mj0665 (cl:hypothetical protein mj0665) (db:pir2.dat) (mp:rev591204-590179) A64383 A64383 Methanococcus jannaschii 2190 -11541599 247099 mj0665 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 55 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 41.48;) (le:9277) (re:10302) (di:complement) U67513 U67513 g1591378 Methanococcus jannaschii 2190 -11541599 6500737741 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0665 MJ0665 Methanococcus jannaschii 2190 -11541599

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937909	21477	43633	255	85

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937921	21478	43634	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937929	21479	43635	342	114

Description

5000698839 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0668 MJ0668 Methanococcus jannaschii 2190 -11541600 5500686335 mj0668 (de:hypothetical protein mj0668) (db:swissprot) Y668_METJA Q58082 METHANOCOCCUS JANNASCHII 2190 -11541600 173649 hypothetical protein mj0668 (db:pir2.dat) (mp:rev594570-594313) D64383 D64383 Methanococcus jannaschii 2190 -11541600 247102 mj0668 m. jannaschii predicted coding region mj0668 (db:genpept-bct1) (de:methanococcus jannaschii section 56 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3028) (re:3285) (di:complement) U67514 U67514 g1591382 Methanococcus jannaschii 2190 -11541600 6500737742 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0668 MJ0668 Methanococcus jannaschii 2190 -11541600

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937939	21480	43636	297	98

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937946	21481	43637	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937949	21482	43638	201	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937950	21483	43639	465	154

Description

5000698840 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0670 MJ0670 Methanococcus jannaschii 2190 -11541601 4000708403 mj0670 (de:hypothetical protein mj0670) (db:swissprot) Y670_METJA Q58084 METHANOCOCCUS JANNASCHII 2190 -11541601 173650 hypothetical protein mj0670 (db:pir2.dat) (mp:rev596956-595886) F64383 F64383 Methanococcus jannaschii 2190 -11541601 247104 mj0670 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 56 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 37.37;) (le:4601) (re:5671) (di:complement) U67514 U67514 g1591384 Methanococcus jannaschii 2190 -11541601 6500737743 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0670 MJ0670 Methanococcus jannaschii 2190 -11541601

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937969	21484	43640	477	159

Description

5000698841 gp:x83963_2:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0674 MJ0674 Methanococcus jannaschii 2190 -11541602 5500686336 mj0674 (de:hypothetical protein mj0674) (db:swissprot) Y674_METJA Q58087 METHANOCOCCUS JANNASCHII 2190 -11541602 173238 hypothetical protein homolog mj0674 (cl:conserved hypothetical protein mj0674) (db:pir2.dat) (mp:for599727-600743) B64384 B64384 Methanococcus jannaschii 2190 -11541602 247108 mj0674 pyruvate formate lyase-activating enzyme isolog (db:genpept-bct1) (de:methanococcus jannaschii section 56 of 150 of the complete genome.) (nt:similar to pid:1016358 percent identity: 51.38;) (le:8442) (re:9458) (di:direct) U67514 U67514 g1591388 Methanococcus jannaschii 2190 -11541602 6500737744 gp:x83963_2:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0674 MJ0674 Methanococcus jannaschii 2190 -11541602

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937974	21485	43641	654	217

Description

5000698842 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0675 MJ0675 Methanococcus jannaschii 2190 -11541603 173651 hypothetical protein mj0675 (db:pir2.dat) (mp:rev601927-600752) C64384 C64384 Methanococcus jannaschii 2190 -11541603 4000708404 mj0675 (de:hypothetical protein mj0675) (db:swissprot) Y675_METJA Q58088 METHANOCOCCUS JANNASCHII 2190 -11541603 6500737745 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0675 MJ0675 Methanococcus jannaschii 2190 -11541603 247109 mju67514 (le:600752) (re:601927) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0675 gn:mj0675 le:9467 re:10642 di:complement nt:identified by genemark; putative) U67514 U67514 g1591389 Methanococcus jannaschii 2190 -11541603

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937976	21486	43642	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937977	21487	43643	450	149

Description

5000698843 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0678 MJ0678 Methanococcus jannaschii 2190 -11541604 5500686337 mj0678 (de:hypothetical protein mj0678) (db:swissprot) Y678_METJA Q58091 METHANOCOCCUS JANNASCHII 2190 -11541604 173652 hypothetical protein mj0678 (db:pir2.dat) (mp:rev605224-604262) F64384 F64384 Methanococcus jannaschii 2190 -11541604 247112 mj0678 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 57 of 150 of the complete genome.) (nt:similar to gb:u03114 pid:416205 percent identity:) (le:2282) (re:3244) (di:complement) U67515 U67515 g1591393 Methanococcus jannaschii 2190 -11541604 6500737746 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0678 MJ0678 Methanococcus jannaschii 2190 -11541604

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937979	21488	43644	444	147

Description

5000698844 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0682 MJ0682 Methanococcus jannaschii 2190 -11541605 5500686339 mj0682 (de:hypothetical protein mj0682) (db:swissprot) Y682_METJA Q58095 METHANOCOCCUS JANNASCHII 2190 -11541605 174317 malt-glpr intergenic region hypothetical intein-containing protein homolog mj0682 (db:pir2.dat) (mp:rev610892-607986) B64385 B64385 Methanococcus jannaschii 2190 -11541605 247116 mj0682 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 57 of 150 of the complete genome.) (nt:similar to gp:1550672 percent identity: 33.33;) (le:6006) (re:8912) (di:complement) U67515 U67515 g1591397 Methanococcus jannaschii 2190 -11541605 6500737747 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0682 MJ0682 Methanococcus jannaschii 2190 -11541605

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937980	21489	43645	486	161

Description

5000698845 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0683 MJ0683 Methanococcus jannaschii 2190 -11541606 5500686340 mj0683 (de:hypothetical protein mj0683) (db:swissprot) Y683_METJA Q58096 METHANOCOCCUS JANNASCHII 2190 -11541606 173653 hypothetical protein mj0683 (cl:hypothetical protein mj0683) (db:pir2.dat) (mp:rev611698-610919) C64385 C64385 Methanococcus jannaschii 2190 -11541606 247117 mj0683 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 57 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 38.10;) (le:8939) (re:9718) (di:complement) U67515 U67515 g1591398 Methanococcus jannaschii 2190 -11541606 6500737748 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0683 MJ0683 Methanococcus jannaschii 2190 -11541606

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937989	21490	43646	783	261

Description

5000698846 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0686 MJ0686 Methanococcus jannaschii 2190 -11541607 5500686342 mj0686 (de:hypothetical protein mj0686) (db:swissprot) Y686_METJA Q58099 METHANOCOCCUS JANNASCHII 2190 -11541607 173654 hypothetical protein mj0686 (db:pir2.dat) (mp:rev615409-613667) F64385 F64385 Methanococcus jannaschii 2190 -11541607 247120 mj0686 m. jannaschii predicted coding region mj0686 (db:genpept-bct1) (de:methanococcus jannaschii section 57 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:11687) (re:13429) (di:complement) U67515 U67515 g1499499 Methanococcus jannaschii 2190 -11541607 6500737749 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0686 MJ0686 Methanococcus jannaschii 2190 -11541607

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937993	21491	43647	549	183

Description

5000698847 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0687 MJ0687 Methanococcus jannaschii 2190 -11541608 173655 hypothetical protein mj0687 (cl:hypothetical protein mj0687) (db:pir2.dat) (mp:rev616484-615477) G64385 G64385 Methanococcus jannaschii 2190 -11541608 5500686343 mj0687 (de:hypothetical protein mj0687) (db:swissprot) Y687_METJA Q58100 METHANOCOCCUS JANNASCHII 2190 -11541608 6500737750 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0687 MJ0687 Methanococcus jannaschii 2190 -11541608 247121 mju67516 (le:615477) (re:616484) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0687 gn:mj0687 le:59 re:1066 di:complement nt:identified by genemark; putative) U67516 U67516 g1592301 Methanococcus jannaschii 2190 -11541608

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937996	21492	43648	336	111

Description

5000698848 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0688 MJ0688 Methanococcus jannaschii 2190 -11541609 173656 hypothetical protein mj0688 (db:pir2.dat) (mp:for616672-617115) H64385 H64385 Methanococcus jannaschii 2190 -11541609 5500686344 mj0688 (de:hypothetical protein mj0688) (db:swissprot) Y688_METJA Q58101 METHANOCOCCUS JANNASCHII 2190 -11541609 6500737751 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0688 MJ0688 Methanococcus jannaschii 2190 -11541609 247122 mju67516 (le:616672) (re:617115) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0688 gn:mj0688 le:1254 re:1697 di:direct nt:identified by genemark; putative) U67516 U67516 g1591403 Methanococcus jannaschii 2190 -11541609

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501937998	21493	43649	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938016	21494	43650	285	94

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938034	21495	43651	519	172

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938037	21496	43652	375	124

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938054	21497	43653	195	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938056	21498	43654	534	177

Description

5000698849 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0690 MJ0690 Methanococcus jannaschii 2190 -11541610 5500686345 mj0690 (de:hypothetical protein mj0690) (db:swissprot) Y690_METJA Q58102 METHANOCOCCUS JANNASCHII 2190 -11541610 173657 hypothetical protein mj0690 (cl:hypothetical protein mj0690) (db:pir2.dat) (mp:rev617976-617374) B64386 B64386 Methanococcus jannaschii 2190 -11541610 247124 mj0690 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 48.73;) (le:1956) (re:2558) (di:complement) U67516 U67516 g1591405 Methanococcus jannaschii 2190 -11541610 6500737752 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0690 MJ0690 Methanococcus jannaschii 2190 -11541610

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938069	21499	43655	282	93

Description

5000698850 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0691 MJ0691 Methanococcus jannaschii 2190 -11541611 5500686346 mj0691 (de:hypothetical protein mj0691) (db:swissprot) Y691_METJA Q58103 METHANOCOCCUS JANNASCHII 2190 -11541611 173658 hypothetical protein mj0691 (db:pir2.dat) (mp:rev618302-617973) C64386 C64386 Methanococcus jannaschii 2190 -11541611 247125 mj0691 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to gp:1523895 percent identity: 37.36;) (le:2555) (re:2884) (di:complement) U67516 U67516 g1591406 Methanococcus jannaschii 2190 -11541611 6500737753 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0691 MJ0691 Methanococcus jannaschii 2190 -11541611

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938070	21500	43656	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938077	21501	43657	753	251

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938089	21502	43658	261	87

Description

5000698851 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0693 MJ0693 Methanococcus jannaschii 2190 -11541612 5500686347 mj0693 (de:hypothetical protein mj0693) (db:swissprot) Y693_METJA Q58104 METHANOCOCCUS JANNASCHII 2190 -11541612 173239 conserved hypothetical protein mj0693 (cl:methanococcus jannaschii conserved hypothetical protein mj0693) (db:pir2.dat) (mp:rev620026-619301) E64386 E64386 Methanococcus jannaschii 2190 -11541612 247127 mj0693 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to pid:726058 gb:ae000666 percent identity:) (le:3883) (re:4608) (di:complement) U67516 U67516 g1591408 Methanococcus jannaschii 2190 -11541612 6500737754 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0693 MJ0693 Methanococcus jannaschii 2190 -11541612

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938097	21503	43659	213	70

Description

5000698852 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0694 MJ0694 Methanococcus jannaschii 2190 -11541613 5500686348 mj0694 (de:hypothetical protein mj0694) (db:swissprot) Y694_METJA Q58105 METHANOCOCCUS JANNASCHII 2190 -11541613 173659 hypothetical protein mj0694 (db:pir2.dat) (mp:for620126-621370) F64386 F64386 Methanococcus jannaschii 2190 -11541613 247128 mj0694 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to sp:q12499 pid:1420682 pid:940841 percent) (le:4708) (re:5952) (di:direct) U67516 U67516 g1591409 Methanococcus jannaschii 2190 -11541613 6500737755 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0694 MJ0694 Methanococcus jannaschii 2190 -11541613

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938099	21504	43660	243	80

Description

5000698853 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0695 MJ0695 Methanococcus jannaschii 2190 -11541614 5500686349 mj0695 (de:hypothetical protein mj0695 precursor) (db:swissprot) Y695_METJA Q58106 METHANOCOCCUS JANNASCHII 2190 -11541614 173660 hypothetical protein mj0695 (db:pir2.dat) (mp:rev621811-621485) G64386 G64386 Methanococcus jannaschii 2190 -11541614 247129 mj0695 m. jannaschii predicted coding region mj0695 (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6067) (re:6393) (di:complement) U67516 U67516 g1591410 Methanococcus jannaschii 2190 -11541614 6500737756 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0695 MJ0695 Methanococcus jannaschii 2190 -11541614

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938142	21505	43661	765	255

Description

5000698854 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0696 MJ0696 Methanococcus jannaschii 2190 -11541615 5500686350 mj0696 (de:hypothetical protein mj0696) (db:swissprot) Y696_METJA Q58107 METHANOCOCCUS JANNASCHII 2190 -11541615 173661 hypothetical protein mj0696 (db:pir2.dat) (mp:rev622480-621932) H64386 H64386 Methanococcus jannaschii 2190 -11541615 247130 mj0696 m. jannaschii predicted coding region mj0696 (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6514) (re:7062) (di:complement) U67516 U67516 g1591411 Methanococcus jannaschii 2190 -11541615 6500737757 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0696 MJ0696 Methanococcus jannaschii 2190 -11541615

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938155	21506	43662	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938166	21507	43663	255	84

Description

5000699427 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0699 MJ0699 Methanococcus jannaschii 2190 -11541616 5500686351 mj0699 (de:hypothetical protein mj0699) (db:swissprot) Y699_METJA Q58110 METHANOCOCCUS JANNASCHII 2190 -11541616 173662 hypothetical protein mj0699 (db:pir2.dat) (mp:rev625839-624697) C64387 C64387 Methanococcus jannaschii 2190 -11541616 247133 mj0699 atrazine chlorohydrolase isolog (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to gp:1493840 percent identity: 28.15;) (le:9279) (re:10421) (di:complement) U67516 U67516 g1591414 Methanococcus jannaschii 2190 -11541616 6500737758 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0699 MJ0699 Methanococcus jannaschii 2190 -11541616

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938177	21508	43664	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938183	21509	43665	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938195	21510	43666	819	272

Description

5000698855 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0700 MJ0700 Methanococcus jannaschii 2190 -11541617 5500686352 mj0700 (de:hypothetical protein mj0700) (db:swissprot) Y700_METJA Q58111 METHANOCOCCUS JANNASCHII 2190 -11541617 173663 hypothetical protein mj0700 (db:pir2.dat) (mp:for625853-626827) D64387 D64387 Methanococcus jannaschii 2190 -11541617 247134 mj0700 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:similar to sp:p11666 pid:41424 pid:882453 gb:u00096) (le:10435) (re:11409) (di:direct) U67516 U67516 g1591415 Methanococcus jannaschii 2190 -11541617 6500737759 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0700 MJ0700 Methanococcus jannaschii 2190 -11541617

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938218	21511	43667	336	112

Description

5000698856 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0701 MJ0701 Methanococcus jannaschii 2190 -11541618 5500686353 mj0701 (de:hypothetical protein mj0701) (db:swissprot) Y701_METJA Q58112 METHANOCOCCUS JANNASCHII 2190 -11541618 173664 hypothetical protein mj0701 (db:pir2.dat) (mp:for626824-628068) E64387 E64387 Methanococcus jannaschii 2190 -11541618 247135 mj0701 m. jannaschii predicted coding region mj0701 (db:genpept-bct1) (de:methanococcus jannaschii section 58 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:11406) (re:12650) (di:direct) U67516 U67516 g1591416 Methanococcus jannaschii 2190 -11541618 6500737760 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0701 MJ0701 Methanococcus jannaschii 2190 -11541618

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938226	21512	43668	192	64

Description

5000698858 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0704 MJ0704 Methanococcus jannaschii 2190 -11541619 5500686356 mj0704 (de:hypothetical protein mj0704) (db:swissprot) Y704_METJA Q58115 METHANOCOCCUS JANNASCHII 2190 -11541619 173667 hypothetical protein mj0704 (db:pir2.dat) (mp:for631071-632204) H64387 H64387 Methanococcus jannaschii 2190 -11541619 247138 mj0704 m. jannaschii predicted coding region mj0704 (db:genpept-bct1) (de:methanococcus jannaschii section 59 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:498) (re:1631) (di:direct) U67517 U67517 g1591420 Methanococcus jannaschii 2190 -11541619 6500737761 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0704 MJ0704 Methanococcus jannaschii 2190 -11541619

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938227	21513	43669	642	213

Description

5000698859 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0706 MJ0706 Methanococcus jannaschii 2190 -11541620 5500686357 mj0706 (de:hypothetical protein mj0706) (db:swissprot) Y706_METJA Q58117 METHANOCOCCUS JANNASCHII 2190 -11541620 173668 hypothetical protein mj0706 (db:pir2.dat) (mp:for633442-634086) B64388 B64388 Methanococcus jannaschii 2190 -11541620 247140 mj0706 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 59 of 150 of the complete genome.) (nt:similar to gp:1653340 percent identity: 31.00;) (le:2869) (re:3513) (di:direct) U67517 U67517 g1591422 Methanococcus jannaschii 2190 -11541620 6500737762 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0706 MJ0706 Methanococcus jannaschii 2190 -11541620

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938247	21514	43670	231	76

Description

5000698860 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0708 MJ0708 Methanococcus jannaschii 2190 -11541621 5500686358 mj0708 (de:hypothetical protein mj0708) (db:swissprot) Y708_METJA Q58118 METHANOCOCCUS JANNASCHII 2190 -11541621 173669 hypothetical protein mj0708 (db:pir2.dat) (mp:rev634942-634424) D64388 D64388 Methanococcus jannaschii 2190 -11541621 247142 mj0708 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 59 of 150 of the complete genome.) (nt:similar to sp:q12094 pid:1151002 pid:1420098) (le:3851) (re:4369) (di:complement) U67517 U67517 g1591424 Methanococcus jannaschii 2190 -11541621 6500737763 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0708 MJ0708 Methanococcus jannaschii 2190 -11541621

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938257	21515	43671	195	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938262	21516	43672	558	186

Description

5000698861 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0709 MJ0709 Methanococcus jannaschii 2190 -11541622 5500686359 mj0709 (de:hypothetical protein mj0709) (db:swissprot) Y709_METJA Q58119 METHANOCOCCUS JANNASCHII 2190 -11541622 173240 conserved hypothetical protein homolog mj0709 (cl:methanococcus jannaschii conserved hypothetical protein mj0709) (db:pir2.dat) (mp:for635018-636370) E64388 E64388 Methanococcus jannaschii 2190 -11541622 247143 mj0709 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 59 of 150 of the complete genome.) (nt:similar to sp:p54181 pid:1256651 gb:al009126) (le:4445) (re:5797) (di:direct) U67517 U67517 g1591425 Methanococcus jannaschii 2190 -11541622 6500737764 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0709 MJ0709 Methanococcus jannaschii 2190 -11541622

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938285	21517	43673	591	197

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938294	21518	43674	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938302	21519	43675	456	151

Description

GTC ORF with score 185 to: (fn:involved in production of the virulence factor) (db:genpept-pln1) (de:cochliobolus heterostrophus polyketide synthase (pks1) gene,complete cds.) (le:1324:1599:2141:2703) (re:1524:2083:2661:3353) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938317	21520	43676	300	100

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938319	21521	43677	441	146

Description

5000698862 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0710 MJ0710 Methanococcus jannaschii 2190 -11541623 4000709950 mj0710 (de:hypothetical protein mj0710) (db:swissprot) Y710_METJA Q58120 METHANOCOCCUS JANNASCHII 2190 -11541623 173241 hypothetical protein homolog mj0710 (db:pir2.dat) (mp:for636397-637452) F64388 F64388 Methanococcus jannaschii 2190 -11541623 247144 mj0710 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 59 of 150 of the complete genome.) (nt:similar to sp:p05409 pid:44620 percent identity:) (le:5824) (re:6879) (di:direct) U67517 U67517 g1591426 Methanococcus jannaschii 2190 -11541623 6500737765 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0710 MJ0710 Methanococcus jannaschii 2190 -11541623

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938331	21522	43678	243	81

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938333	21523	43679	285	94

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938340	21524	43680	405	134

Description

5000698863 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0711 MJ0711 Methanococcus jannaschii 2190 -11541624 5500686360 mj0711 (de:hypothetical protein mj0711) (db:swissprot) Y711_METJA Q58121 METHANOCOCCUS JANNASCHII 2190 -11541624 173670 hypothetical protein mj0711 (db:pir2.dat) (mp:for643997-644965) G64388 G64388 Methanococcus jannaschii 2190 -11541624 247145 mj0711 m. jannaschii predicted coding region mj0711 (db:genpept-bct1) (de:methanococcus jannaschii section 60 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:739) (re:1707) (di:direct) U67518 U67518 g1591428 Methanococcus jannaschii 2190 -11541624 6500737766 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0711 MJ0711 Methanococcus jannaschii 2190 -11541624

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938341	21525	43681	639	212

Description

5000698864 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0714 MJ0714 Methanococcus jannaschii 2190 -11541625 1500686304 mj0714 (de:hypothetical protein mj0714) (db:swissprot) Y714_METJA Q58124 METHANOCOCCUS JANNASCHII 2190 -11541625 173672 conserved hypothetical protein mj0714 (cl:methanococcus jannaschii conserved hypothetical protein mj0714) (db:pir2.dat) (mp:for648529-648885) B64389 B64389 Methanococcus jannaschii 2190 -11541625 247148 mj0714 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 60 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 61.40;) (le:5271) (re:5627) (di:direct) U67518 U67518 g1591431 Methanococcus jannaschii 2190 -11541625 6500737767 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0714 MJ0714 Methanococcus jannaschii 2190 -11541625

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938344	21526	43682	522	173

Description

5000698865 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0716 MJ0716 Methanococcus jannaschii 2190 -11541626 173673 hypothetical protein mj0716 (db:pir2.dat) (mp:for649988-650275) D64389 D64389 Methanococcus jannaschii 2190 -11541626 247150 mj0716 m. jannaschii predicted coding region mj0716 (db:genpept-bct1) (de:methanococcus jannaschii section 60 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6730) (re:7017) (di:direct) U67518 U67518 g1591433 Methanococcus jannaschii 2190 -11541626 6500737768 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0716 MJ0716 Methanococcus jannaschii 2190 -11541626

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938352	21527	43683	297	98

Description

5000698866 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0724 MJ0724 Methanococcus jannaschii 2190 -11541627 5500686365 mj0724 (de:hypothetical protein mj0724) (db:swissprot) Y724_METJA Q58134 METHANOCOCCUS JANNASCHII 2190 -11541627 173675 hypothetical protein mj0724 (cl:hypothetical protein mj0724) (db:pir2.dat) (mp:rev657811-657188) D64390 D64390 Methanococcus jannaschii 2190 -11541627 247158 mj0724 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 61 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 49.21;) (le:3312) (re:3935) (di:complement) U67519 U67519 g1499541 Methanococcus jannaschii 2190 -11541627 6500737769 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0724 MJ0724 Methanococcus jannaschii 2190 -11541627

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938356	21528	43684	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938369	21529	43685	330	109

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938379	21530	43686	372	123

Description

GTC ORF with score 118 to: (fn:converts chickpea phytoalexin, maackiain, to) (sr:nectria haematococca strain=156-30-6) (db:genpept-pln2) (de:nectria haematococca maackiain detoxification (mak1) gene, completecds.) (nt:predicted flavin-containing ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938381	21531	43687	336	112

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938394	21532	43688	501	167

Description

5000698867 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0729 MJ0729 Methanococcus jannaschii 2190 -11541628 5500686366 mj0729 (de:hypothetical protein mj0729) (db:swissprot) Y729_METJA Q58139 METHANOCOCCUS JANNASCHII 2190 -11541628 173242 hypothetical protein homolog mj0729 (db:pir2.dat) (mp:for662671-663045) A64391 A64391 Methanococcus jannaschii 2190 -11541628 247163 mj0729 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 61 of 150 of the complete genome.) (nt:similar to percent identity: 32.20; identified by) (le:8795) (re:9169) (di:direct) U67519 U67519 g1591445 Methanococcus jannaschii 2190 -11541628 6500737770 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0729 MJ0729 Methanococcus jannaschii 2190 -11541628

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938402	21533	43689	477	158

Description

5000698285 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0730 MJ0730 Methanococcus jannaschii 2190 -11541629 500685025 mj0730 (de:hypothetical protein mj0730) (db:swissprot) Y730_METJA Q58140 METHANOCOCCUS JANNASCHII 2190 -11541629 173676 hypothetical protein mj0730 (cl:conserved hypothetical protein mj0730) (db:pir2.dat) (mp:rev663607-663047) B64391 B64391 Methanococcus jannaschii 2190 -11541629 247164 mj0730 dna/pantothenate metabolism flavoprotein-like (db:genpept-bct1) (de:methanococcus jannaschii section 61 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p24285 pid:290489 gb:u00096) (le:9171) (re:9731) (di:complement) U67519 U67519 g1499547 Methanococcus jannaschii 2190 -11541629 6500737771 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0730 MJ0730 Methanococcus jannaschii 2190 -11541629

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938403	21534	43690	327	108

Description

5000698868 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0733 MJ0733 Methanococcus jannaschii 2190 -11541630 173678 hypothetical protein mj0733 (db:pir2.dat) (mp:rev665885-665520) E64391 E64391 Methanococcus jannaschii 2190 -11541630 247167 mj0733 m. jannaschii predicted coding region mj0733 (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:65) (re:430) (di:complement) U67520 U67520 g1592303 Methanococcus jannaschii 2190 -11541630 6500737772 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0733 MJ0733 Methanococcus jannaschii 2190 -11541630

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938407	21535	43691	387	128

Description

5000698870 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0738 MJ0738 Methanococcus jannaschii 2190 -11541631 173680 hypothetical protein mj0738 (db:pir2.dat) (mp:rev668148-667876) B64392 B64392 Methanococcus jannaschii 2190 -11541631 247172 mj0738 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:similar to gb:x69112 pid:44585 gb:ae000666 percent) (le:2421) (re:2693) (di:complement) U67520 U67520 g1591452 Methanococcus jannaschii 2190 -11541631 6500737773 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0738 MJ0738 Methanococcus jannaschii 2190 -11541631

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938408	21536	43692	324	107

Description

5000698871 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0739 MJ0739 Methanococcus jannaschii 2190 -11541632 173681 hypothetical protein mj0739 (cl:hypothetical protein mj0745) (db:pir2.dat) (mp:rev668629-668174) C64392 C64392 Methanococcus jannaschii 2190 -11541632 247173 mj0739 m. jannaschii predicted coding region mj0739 (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2719) (re:3174) (di:complement) U67520 U67520 g1499557 Methanococcus jannaschii 2190 -11541632 6500737774 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0739 MJ0739 Methanococcus jannaschii 2190 -11541632

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938411	21537	43693	492	163

Description

5000697926 desulfoferrodoxin (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0741 MJ0741 Methanococcus jannaschii 2190 -11541633 7502853928 mj0741 (de:neelaredoxin homolog) (db:swissprot) NLRH_METJA Q58151 METHANOCOCCUS JANNASCHII 2190 -11541633 173047 desulfoferrodoxin (db:pir2.dat) (mp:rev669390-669040) E64392 E64392 Methanococcus jannaschii 2190 -11541633 247175 mj0741 desulfoferrodoxin:putative rbo (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:similar to gb:m81168 sp:p20418 gb:m28848 pid:145115) (le:3585) (re:3935) (di:complement) U67520 U67520 g1591454 Methanococcus jannaschii 2190 -11541633 6500737775 desulfoferrodoxin (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0741 MJ0741 Methanococcus jannaschii 2190 -11541633

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938423	21538	43694	522	174

Description

5000698872 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0742 MJ0742 Methanococcus jannaschii 2190 -11541634 5500686368 mj0742 (de:hypothetical protein mj0742) (db:swissprot) Y742_METJA Q58152 METHANOCOCCUS JANNASCHII 2190 -11541634 173682 hypothetical protein mj0742 (cl:conserved hypothetical protein mj0742) (db:pir2.dat) (mp:rev669809-669495) F64392 F64392 Methanococcus jannaschii 2190 -11541634 247176 mj0742 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:similar to gb:142023 pid:1006306 pid:1221170) (le:4040) (re:4354) (di:complement) U67520 U67520 g1591455 Methanococcus jannaschii 2190 -11541634 6500737776 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0742 MJ0742 Methanococcus jannaschii 2190 -11541634

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938442	21539	43695	792	264

Description

5000698873 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0745 MJ0745 Methanococcus jannaschii 2190 -11541635 173683 hypothetical protein mj0745 (cl:hypothetical protein mj0745) (db:pir2.dat) (mp:rev672219-671674) A64393 A64393 Methanococcus jannaschii 2190 -11541635 247179 mj0745 m. jannaschii predicted coding region mj0745 (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6219) (re:6764) (di:complement) U67520 U67520 g1591458 Methanococcus jannaschii 2190 -11541635 6500737777 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0745 MJ0745 Methanococcus jannaschii 2190 -11541635

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938445	21540	43696	204	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938447	21541	43697	480	159

Description

5000698874 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0746 MJ0746 Methanococcus jannaschii 2190 -11541636 5500686369 mj0746 (de:hypothetical protein mj0746) (db:swissprot) Y746_METJA Q58156 METHANOCOCCUS JANNASCHII 2190 -11541636 173243 hypothetical protein homolog mj0746 (db:pir2.dat) (mp:rev672850-672425) B64393 B64393 Methanococcus jannaschii 2190 -11541636 247180 mj0746 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:similar to pid:710357 gb:ae000666 percent identity:) (le:6970) (re:7395) (di:complement) U67520 U67520 g1591459 Methanococcus jannaschii 2190 -11541636 6500737778 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0746 MJ0746 Methanococcus jannaschii 2190 -11541636

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938452	21542	43698	291	96

Description

5000699429 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0747 MJ0747 Methanococcus jannaschii 2190 -11541637 173684 hypothetical protein mj0747 (db:pir2.dat) (mp:rev673469-672960) C64393 C64393 Methanococcus jannaschii 2190 -11541637 247181 mj0747 hemerythrin sipunculid (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:similar to pir:a02571 percent identity: 33.65;) (le:7505) (re:8014) (di:complement) U67520 U67520 g1591460 Methanococcus jannaschii 2190 -11541637 6500737779 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0747 MJ0747 Methanococcus jannaschii 2190 -11541637

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938454	21543	43699	687	229

Description

5000698875 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0749 MJ0749 Methanococcus jannaschii 2190 -11541638 173685 hypothetical protein mj0749 (db:pir2.dat) (mp:rev675890-675150) E64393 E64393 Methanococcus jannaschii 2190 -11541638 247183 mj0749 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 62 of 150 of the complete genome.) (nt:similar to gp:1787226 percent identity: 31.17;) (le:9695) (re:10435) (di:complement) U67520 U67520 g1591462 Methanococcus jannaschii 2190 -11541638 6500737780 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0749 MJ0749 Methanococcus jannaschii 2190 -11541638

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938460	21544	43700	390	130

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938464	21545	43701	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938469	21546	43702	216	71

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938482	21547	43703	534	178

Description

GTC ORF with score 505 to: (db:genpept-pln2) (de:emericella nidulans negative-acting regulatory protein (qutr) gene,complete cds; and unknown gene.) (nt:repressor protein; coding region predicted from dna) (le:3826) (re:6531) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938490	21548	43704	252	84

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938494	21549	43705	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938496	21550	43706	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938497	21551	43707	393	130

Description

5000698877 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0751 MJ0751 Methanococcus jannaschii 2190 -11541639 118848 mj0751 (de:hypothetical protein mj0751) (db:swissprot) Y751_METJA Q58161 METHANOCOCCUS JANNASCHII 2190 -11541639 173687 hypothetical protein mj0751 (db:pir2.dat) (mp:rev677630-676794) G64393 G64393 Methanococcus jannaschii 2190 -11541639 247185 mj0751 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:similar to gp:1707749 percent identity: 33.56;) (le:876) (re:1712) (di:complement) U67521 U67521 g1591465 Methanococcus jannaschii 2190 -11541639 6500737781 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0751 MJ0751 Methanococcus jannaschii 2190 -11541639

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938515	21552	43708	339	113

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938517	21553	43709	519	172

Description

5000698878 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0752 MJ0752 Methanococcus jannaschii 2190 -11541640 5500686370 mj0752 (de:hypothetical protein mj0752) (db:swissprot) Y752_METJA Q58162 METHANOCOCCUS JANNASCHII 2190 -11541640 173688 hypothetical protein mj0752 (db:pir2.dat) (mp:rev677944-677714) H64393 H64393 Methanococcus jannaschii 2190 -11541640 247186 mj0752 m. jannaschii predicted coding region mj0752 (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1796) (re:2026) (di:complement) U67521 U67521 g1499571 Methanococcus jannaschii 2190 -11541640 6500737782 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0752 MJ0752 Methanococcus jannaschii 2190 -11541640

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938525	21554	43710	213	70

Description

Hypothetical protein

jc542 U.S. PTO 09/417507 10/14/99

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938530	21555	43711	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938541	21556	43712	465	155

Description

5000698879 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0753 MJ0753 Methanococcus jannaschii 2190 -11541641 5500686371 mj0753 (de:hypothetical protein mj0753 precursor) (db:swissprot) Y753_METJA Q58163 METHANOCOCCUS JANNASCHII 2190 -11541641 173689 hypothetical protein mj0753 (db:pir2.dat) (mp:rev678777-678145) A64394 A64394 Methanococcus jannaschii 2190 -11541641 247187 mj0753 m. jannaschii predicted coding region mj0753 (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2227) (re:2859) (di:complement) U67521 U67521 g1591466 Methanococcus jannaschii 2190 -11541641 6500737783 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0753 MJ0753 Methanococcus jannaschii 2190 -11541641

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938542	21557	43713	414	137

Description

GTC ORF with score 217 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid r02c2.) (nt:similar to serine/threonine-protein kinases) (le:15406:16033:16521:17024) (re:15901:16246:16676:17387) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938543	21558	43714	384	127

Description

GTC ORF with score 200 to: (sr:bodo saltans) (db:genpept-inv) (de:bodo saltans nadh dehydrogenase subunit 5 (nd5) mrna, kinetoplastgene encoding kinetoplast protein, partial cds.) (nt:partially edited mrna) (le:<1) (re:639) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938544	21559	43715	540	179

Description

5000698880 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0754 MJ0754 Methanococcus jannaschii 2190 -11541642 5500686372 mj0754 (de:hypothetical protein mj0754) (db:swissprot) Y754_METJA Q58164 METHANOCOCCUS JANNASCHII 2190 -11541642 173690 hypothetical protein mj0754 (db:pir2.dat) (mp:rev679331-678774) B64394 B64394 Methanococcus jannaschii 2190 -11541642 247188 mj0754 m. jannaschii predicted coding region mj0754 (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2856) (re:3413) (di:complement) U67521 U67521 g1591467 Methanococcus jannaschii 2190 -11541642 6500737784 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0754 MJ0754 Methanococcus jannaschii 2190 -11541642

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938557	21560	43716	582	194

Description

5000698882 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0756 MJ0756 Methanococcus jannaschii 2190 -11541643 5500686374 mj0756 (de:hypothetical protein mj0756 precursor) (db:swissprot) Y756_METJA Q58166 METHANOCOCCUS JANNASCHII 2190 -11541643 173692 hypothetical protein mj0756 (db:pir2.dat) (mp:rev681298-680888) D64394 D64394 Methanococcus jannaschii 2190 -11541643 247190 mj0756 m. jannaschii predicted coding region mj0756 (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4970) (re:5380) (di:complement) U67521 U67521 g1499575 Methanococcus jannaschii 2190 -11541643 6500737785 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0756 MJ0756 Methanococcus jannaschii 2190 -11541643

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938567	21561	43717	648	216

Description

5000698883 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0757 MJ0757 Methanococcus jannaschii 2190 -11541644 4000708408 mj0757 (de:hypothetical protein mj0757) (db:swissprot) Y757_METJA Q58167 METHANOCOCCUS JANNASCHII 2190 -11541644 173693 hypothetical protein mj0757 (cl:hypothetical protein af1307) (db:pir2.dat) (mp:rev682205-681423) E64394 E64394 Methanococcus jannaschii 2190 -11541644 247191 mj0757 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 41.28;) (le:5505) (re:6287) (di:complement) U67521 U67521 g1591468 Methanococcus jannaschii 2190 -11541644 6500737786 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0757 MJ0757 Methanococcus jannaschii 2190 -11541644

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938571	21562	43718	480	160

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938575	21563	43719	633	210

Description

5000698884 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0758 MJ0758 Methanococcus jannaschii 2190 -11541645 5500686375 mj0758 (de:hypothetical protein mj0758) (db:swissprot) Y758_METJA Q58168 METHANOCOCCUS JANNASCHII 2190 -11541645 173694 hypothetical protein mj0758 (db:pir2.dat) (mp:rev682691-682212) F64394 F64394 Methanococcus jannaschii 2190 -11541645 247192 mj0758 m. jannaschii predicted coding region mj0758 (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6294) (re:6773) (di:complement) U67521 U67521 g1591469 Methanococcus jannaschii 2190 -11541645 6500737787 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0758 MJ0758 Methanococcus jannaschii 2190 -11541645

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938601	21564	43720	522	174

Description

5000698885 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0759 MJ0759 Methanococcus jannaschii 2190 -11541646 5500686376 mj0759 (de:hypothetical protein mj0759) (db:swissprot) Y759_METJA Q58169 METHANOCOCCUS JANNASCHII 2190 -11541646 173695 hypothetical protein mj0759 (cl:hypothetical protein mj0759) (db:pir2.dat) (mp:rev683055-682699) G64394 G64394 Methanococcus jannaschii 2190 -11541646 247193 mj0759 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 33.02;) (le:6781) (re:7137) (di:complement) U67521 U67521 g1591470 Methanococcus jannaschii 2190 -11541646 6500737788 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0759 MJ0759 Methanococcus jannaschii 2190 -11541646

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938603	21565	43721	225	74

Description

GTC ORF with score 129 to: (sr:thale cress) (db:genpept-pln1) (de:arabidopsis thaliana chromosome i bac f11p17 genomic sequence,complete sequence.) (nt:similar to transcription factor gb|z46606|1658307) (le:61984:62377:62554:62929) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938604	21566	43722	228	76

Description

5000698886 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0760 MJ0760 Methanococcus jannaschii 2190 -11541647 5500686377 mj0760 (de:hypothetical protein mj0760) (db:swissprot) Y760_METJA Q58170 METHANOCOCCUS JANNASCHII 2190 -11541647 173696 conserved hypothetical protein mj0760 (cl:methanococcus jannaschii hypothetical protein mj0760) (db:pir2.dat) (mp:rev683873-683046) H64394 H64394 Methanococcus jannaschii 2190 -11541647 247194 mj0760 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:similar to sp:p54436 pid:1303708 gb:al009126) (le:7128) (re:7955) (di:complement) U67521 U67521 g1499579 Methanococcus jannaschii 2190 -11541647 6500737789 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0760 MJ0760 Methanococcus jannaschii 2190 -11541647

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938613	21567	43723	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938614	21568	43724	525	175

Description

5000698887 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0761 MJ0761 Methanococcus jannaschii 2190 -11541648 5500686378 mj0761 (de:hypothetical protein mj0761) (db:swissprot) Y761_METJA Q58171 METHANOCOCCUS JANNASCHII 2190 -11541648 173697 hypothetical protein mj0761 (cl:conserved hypothetical protein mj0761) (db:pir2.dat) (mp:rev684826-684071) A64395 A64395 Methanococcus jannaschii 2190 -11541648 247195 mj0761 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:similar to gb:d26185 sp:p37545 pid:467428) (le:8153) (re:8908) (di:complement) U67521 U67521 g1591471 Methanococcus jannaschii 2190 -11541648 6500737790 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0761 MJ0761 Methanococcus jannaschii 2190 -11541648

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938621	21569	43725	711	236

Description

5000698888 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0763 MJ0763 Methanococcus jannaschii 2190 -11541649 5500686379 mj0763 (de:hypothetical protein mj0763) (db:swissprot) Y763_METJA Q58173 METHANOCOCCUS JANNASCHII 2190 -11541649 173698 hypothetical protein mj0763 (db:pir2.dat) (mp:rev686253-685888) C64395 C64395 Methanococcus jannaschii 2190 -11541649 247197 mj0763 m. jannaschii predicted coding region mj0763 (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9970) (re:10335) (di:complement) U67521 U67521 g1499582 Methanococcus jannaschii 2190 -11541649 6500737791 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0763 MJ0763 Methanococcus jannaschii 2190 -11541649

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938622	21570	43726	312	103

Description

5000698889 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0764 MJ0764 Methanococcus jannaschii 2190 -11541650 5500686380 mj0764 (de:hypothetical protein mj0764) (db:swissprot) Y764_METJA Q58174 METHANOCOCCUS JANNASCHII 2190 -11541650 173699 hypothetical protein mj0764 (db:pir2.dat) (mp:rev686613-686263) D64395 D64395 Methanococcus jannaschii 2190 -11541650 247198 mj0764 m. jannaschii predicted coding region mj0764 (db:genpept-bct1) (de:methanococcus jannaschii section 63 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10345) (re:10695) (di:complement) U67521 U67521 g1499583 Methanococcus jannaschii 2190 -11541650 6500737792 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0764 MJ0764 Methanococcus jannaschii 2190 -11541650

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938630	21571	43727	981	327

Description

5000698457 (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0765 MJ0765 Methanococcus jannaschii 2190 -11541651 5500685757 mj0765 (de:prismane protein homolog) (db:swissprot) PRIS_METJA Q58175 METHANOCOCCUS JANNASCHII 2190 -11541651 174622 6fe-6s prismane-containing protein homolog) (cl:prismane (6fe-6s) protein) (db:pir2.dat) (mp:rev688457-686811) E64395 E64395 Methanococcus jannaschii 2190 -11541651 247199 mj0765 6fe-6s prismane-containing protein) (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to gb:z11975 sp:q01770 pid:49286 percent) (le:124) (re:1770) (di:complement) U67522 U67522 g1592305 Methanococcus jannaschii 2190 -11541651 6500737793 (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0765 MJ0765 Methanococcus jannaschii 2190 -11541651

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938631	21572	43728	723	240

Description

5000698890 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0766 MJ0766 Methanococcus jannaschii 2190 -11541652 4000708410 mj0766 (de:hypothetical protein mj0766) (db:swissprot) Y766_METJA Q58176 METHANOCOCCUS JANNASCHII 2190 -11541652 173700 hypothetical protein mj0766 (db:pir2.dat) (mp:rev688928-688728) F64395 F64395 Methanococcus jannaschii 2190 -11541652 247200 mj0766 m. jannaschii predicted coding region mj0766 (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2041) (re:2241) (di:complement) U67522 U67522 g1591475 Methanococcus jannaschii 2190 -11541652 6500737794 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0766 MJ0766 Methanococcus jannaschii 2190 -11541652

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938632	21573	43729	489	162

Description

5000698891 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0767 MJ0767 Methanococcus jannaschii 2190 -11541653 4000708411 mj0767 (de:hypothetical protein mj0767) (db:swissprot) Y767_METJA Q58177 METHANOCOCCUS JANNASCHII 2190 -11541653 173701 hypothetical protein mj0767 (db:pir2.dat) (mp:rev689506-689099) G64395 G64395 Methanococcus jannaschii 2190 -11541653 247201 mj0767 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to sp:p28910 pid:147625 pid:466617) (le:2412) (re:2819) (di:complement) U67522 U67522 g1591476 Methanococcus jannaschii 2190 -11541653 6500737795 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0767 MJ0767 Methanococcus jannaschii 2190 -11541653

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938634	21574	43730	696	232

Description

5000698892 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0768 MJ0768 Methanococcus jannaschii 2190 -11541654 5500686382 mj0768 (de:hypothetical protein mj0768) (db:swissprot) Y768_METJA Q58178 METHANOCOCCUS JANNASCHII 2190 -11541654 173702 hypothetical protein mj0768 (cl:hypothetical protein mj0768) (db:pir2.dat) (mp:for689591-690340) H64395 H64395 Methanococcus jannaschii 2190 -11541654 247202 mj0768 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to gb:l77117 pid:1592005 percent identity:) (le:2904) (re:3653) (di:direct) U67522 U67522 g1499588 Methanococcus jannaschii 2190 -11541654 6500737796 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0768 MJ0768 Methanococcus jannaschii 2190 -11541654

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938635	21575	43731	978	326

Description

5000698893 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0769 MJ0769 Methanococcus jannaschii 2190 -11541655 5500686383 mj0769 (de:hypothetical protein mj0769) (db:swissprot) Y769_METJA Q58179 METHANOCOCCUS JANNASCHII 2190 -11541655 173703 hypothetical protein mj0769 (db:pir2.dat) (mp:rev690989-690480) A64396 A64396 Methanococcus jannaschii 2190 -11541655 247203 mj0769 m. jannaschii predicted coding region mj0769 (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3793) (re:4302) (di:complement) U67522 U67522 g1499589 Methanococcus jannaschii 2190 -11541655 6500737797 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0769 MJ0769 Methanococcus jannaschii 2190 -11541655

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938636	21576	43732	969	323

Description

5000698894 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0770 MJ0770 Methanococcus jannaschii 2190 -11541656 5500686384 mj0770 (de:hypothetical protein mj0770) (db:swissprot) Y770_METJA Q58180 METHANOCOCCUS JANNASCHII 2190 -11541656 173704 hypothetical protein mj0770 (db:pir2.dat) (mp:rev691653-690982) B64396 B64396 Methanococcus jannaschii 2190 -11541656 247204 mj0770 m. jannaschii predicted coding region mj0770 (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4295) (re:4966) (di:complement) U67522 U67522 g1499590 Methanococcus jannaschii 2190 -11541656 6500737798 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0770 MJ0770 Methanococcus jannaschii 2190 -11541656

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938645	21577	43733	261	87

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938652	21578	43734	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938658	21579	43735	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938659	21580	43736	921	307

Description

5000698895 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0772 MJ0772 Methanococcus jannaschii 2190 -11541657 173705 hypothetical protein mj0772 (db:pir2.dat) (mp:for692431-693492) D64396 D64396 Methanococcus jannaschii 2190 -11541657 5500686386 mj0772 (de:hypothetical protein mj0772) (db:swissprot) Y772_METJA Q58182 METHANOCOCCUS JANNASCHII 2190 -11541657 6500737799 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0772 MJ0772 Methanococcus jannaschii 2190 -11541657 247206 mju67522 (le:692431) (re:693492) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0772 gn:mj0772 le:5744 re:6805 di:direct nt:identified by genemark; putative) U67522 U67522 g1499592 Methanococcus jannaschii 2190 -11541657

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938671	21581	43737	288	95

Description

5000698896 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0773 MJ0773 Methanococcus jannaschii 2190 -11541658 5500686387 mj0773 (de:hypothetical protein mj0773 precursor) (db:swissprot) Y773_METJA Q58183 METHANOCOCCUS JANNASCHII 2190 -11541658 173706 hypothetical protein mj0773 (db:pir2.dat) (mp:rev694542-694015) E64396 E64396 Methanococcus jannaschii 2190 -11541658 247207 mj0773 m. jannaschii predicted coding region mj0773 (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7328) (re:7855) (di:complement) U67522 U67522 g1499593 Methanococcus jannaschii 2190 -11541658 6500737800 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0773 MJ0773 Methanococcus jannaschii 2190 -11541658

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938675	21582	43738	396	131

Description

5000698897 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0774 MJ0774 Methanococcus jannaschii 2190 -11541659 4000708412 mj0774 (de:hypothetical protein mj0774) (db:swissprot) Y774_METJA Q58184 METHANOCOCCUS JANNASCHII 2190 -11541659 173707 hypothetical protein mj0774 (db:pir2.dat) (mp:for695230-696459) F64396 F64396 Methanococcus jannaschii 2190 -11541659 247208 mj0774 m. jannaschii predicted coding region mj0774 (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8543) (re:9772) (di:direct) U67522 U67522 g1499594 Methanococcus jannaschii 2190 -11541659 6500737801 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0774 MJ0774 Methanococcus jannaschii 2190 -11541659

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938686	21583	43739	552	183

Description

5000698898 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0775 MJ0775 Methanococcus jannaschii 2190 -11541660 5500686388 mj0775 (de:hypothetical protein mj0775) (db:swissprot) Y775_METJA Q58185 METHANOCOCCUS JANNASCHII 2190 -11541660 173708 hypothetical protein mj0775 (db:pir2.dat) (mp:for696434-697384) G64396 G64396 Methanococcus jannaschii 2190 -11541660 247209 mj0775 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 52.63;) (le:9747) (re:10697) (di:direct) U67522 U67522 g1592307 Methanococcus jannaschii 2190 -11541660 6500737802 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0775 MJ0775 Methanococcus jannaschii 2190 -11541660

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938698	21584	43740	354	117

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938703	21585	43741	543	181

Description

5000698899 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0776 MJ0776 Methanococcus jannaschii 2190 -11541661 5500686389 mj0776 (de:hypothetical protein mj0776) (db:swissprot) Y776_METJA Q58186 METHANOCOCCUS JANNASCHII 2190 -11541661 173709 hypothetical protein mj0776 (db:pir2.dat) (mp:for697377-698528) H64396 H64396 Methanococcus jannaschii 2190 -11541661 247210 mj0776 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 33.05;) (le:10690) (re:11841) (di:direct) U67522 U67522 g1499596 Methanococcus jannaschii 2190 -11541661 6500737803 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0776 MJ0776 Methanococcus jannaschii 2190 -11541661

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938710	21586	43742	468	155

Description

5000698901 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0778 MJ0778 Methanococcus jannaschii 2190 -11541662 5500686391 mj0778 (de:hypothetical protein mj0778) (db:swissprot) Y778_METJA Q58188 METHANOCOCCUS JANNASCHII 2190 -11541662 173711 hypothetical protein mj0778 (cl:conserved hypothetical protein mj0778) (db:pir2.dat) (mp:for699099-699608) B64397 B64397 Methanococcus jannaschii 2190 -11541662 247212 mj0778 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 53.85;) (le:12412) (re:12921) (di:direct) U67522 U67522 g1499598 Methanococcus jannaschii 2190 -11541662 6500737804 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0778 MJ0778 Methanococcus jannaschii 2190 -11541662

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938721	21587	43743	264	88

Description

5000698902 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0779 MJ0779 Methanococcus jannaschii 2190 -11541663 5500686392 mj0779 (de:hypothetical protein mj0779) (db:swissprot) Y779_METJA Q58189 METHANOCOCCUS JANNASCHII 2190 -11541663 173712 hypothetical protein mj0779 (db:pir2.dat) (mp:rev700511-699612) C64397 C64397 Methanococcus jannaschii 2190 -11541663 247213 mj0779 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 23.56;) (le:12925) (re:13824) (di:complement) U67522 U67522 g1499599 Methanococcus jannaschii 2190 -11541663 6500737805 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0779 MJ0779 Methanococcus jannaschii 2190 -11541663

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938722	21588	43744	351	116

Description

5000698903 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0780 MJ0780 Methanococcus jannaschii 2190 -11541664 5500686393 mj0780 (de:hypothetical protein mj0780) (db:swissprot) Y780_METJA Q58190 METHANOCOCCUS JANNASCHII 2190 -11541664 173713 hypothetical protein mj0780 (db:pir2.dat) (mp:rev701539-700532) D64397 D64397 Methanococcus jannaschii 2190 -11541664 247214 mj0780 m. jannaschii predicted coding region mj0780 (db:genpept-bct1) (de:methanococcus jannaschii section 64 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:13845) (re:14852) (di:complement) U67522 U67522 g1499600 Methanococcus jannaschii 2190 -11541664 6500737806 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0780 MJ0780 Methanococcus jannaschii 2190 -11541664

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938737	21589	43745	420	139

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938740	21590	43746	468	156

Description

5000698904 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0783 MJ0783 Methanococcus jannaschii 2190 -11541665 5500686395 mj0783 (de:hypothetical protein mj0783) (db:swissprot) Y783_METJA Q58193 METHANOCOCCUS JANNASCHII 2190 -11541665 173714 hypothetical protein mj0783 (db:pir2.dat) (mp:for706182-706742) G64397 G64397 Methanococcus jannaschii 2190 -11541665 247217 mj0783 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:similar to gb:x73148 pid:407884 percent identity:) (le:109) (re:669) (di:direct) U67523 U67523 g1591483 Methanococcus jannaschii 2190 -11541665 6500737807 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0783 MJ0783 Methanococcus jannaschii 2190 -11541665

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938750	21591	43747	645	215

Description

5000698905 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0786 MJ0786 Methanococcus jannaschii 2190 -11541666 5500686396 mj0786 (de:hypothetical protein mj0786) (db:swissprot) Y786_METJA Q58196 METHANOCOCCUS JANNASCHII 2190 -11541666 173715 hypothetical protein mj0786 (db:pir2.dat) (mp:for710065-710625) B64398 B64398 Methanococcus jannaschii 2190 -11541666 247220 mj0786 m. jannaschii predicted coding region mj0786 (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3992) (re:4552) (di:direct) U67523 U67523 g1591486 Methanococcus jannaschii 2190 -11541666 6500737808 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0786 MJ0786 Methanococcus jannaschii 2190 -11541666

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938755	21592	43748	270	89

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938759	21593	43749	864	288

Description

5000698906 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0787 MJ0787 Methanococcus jannaschii 2190 -11541667 173245 hypothetical protein homolog mj0787 (db:pir2.dat) (mp:for710775-712289) C64398 C64398 Methanococcus jannaschii 2190 -11541667 247221 mj0787 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:similar to pid:726081 percent identity: 47.77;) (le:4702) (re:6216) (di:direct) U67523 U67523 g1591487 Methanococcus jannaschii 2190 -11541667 6500737809 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0787 MJ0787 Methanococcus jannaschii 2190 -11541667

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938760	21594	43750	189	62

Description

GTC ORF with score 144 to: (sr:citrobacter amalonaticus (strain:yg-1002) dna) (db:genpept-bct1) (de:citrobacter amalonaticus dna for 3-methylaspartate ammonia-lyase,glutamate mutase, complete cds.) (le:1641) (re:2882) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938773	21595	43751	573	190

Description

5000698907 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0788 MJ0788 Methanococcus jannaschii 2190 -11541668 5500686397 mj0788 (de:hypothetical protein mj0788) (db:swissprot) Y788_METJA Q58198 METHANOCOCCUS JANNASCHII 2190 -11541668 173716 hypothetical protein mj0788 (db:pir2.dat) (mp:for712305-712544) D64398 D64398 Methanococcus jannaschii 2190 -11541668 247222 mj0788 m. jannaschii predicted coding region mj0788 (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6232) (re:6471) (di:direct) U67523 U67523 g1499609 Methanococcus jannaschii 2190 -11541668 6500737810 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0788 MJ0788 Methanococcus jannaschii 2190 -11541668

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938778	21596	43752	423	140

Description

5000698908 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0789 MJ0789 Methanococcus jannaschii 2190 -11541669 5500686398 mj0789 (de:hypothetical protein mj0789) (db:swissprot) Y789_METJA Q58199 METHANOCOCCUS JANNASCHII 2190 -11541669 173717 hypothetical protein mj0789 (db:pir2.dat) (mp:for712627-712977) E64398 E64398 Methanococcus jannaschii 2190 -11541669 247223 mj0789 m. jannaschii predicted coding region mj0789 (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6554) (re:6904) (di:direct) U67523 U67523 g1499610 Methanococcus jannaschii 2190 -11541669 6500737811 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0789 MJ0789 Methanococcus jannaschii 2190 -11541669

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938783	21597	43753	300	99

Description

GTC ORF with score 249 to: (sr:yeast (s.cerevisiae; strain fl100) dna, library o) (db:genpept-pln1) (de:yeast (s.cerevisiae) met2 gene encoding homoserineo-trans-acetylase, complete cds.) (nt:homoserine o-trans-acetylase) (le:995) (re:2311) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938788	21598	43754	309	102

Description

5000699430 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0790 MJ0790 Methanococcus jannaschii 2190 -11541670 5500686399 mj0790 (de:hypothetical protein mj0790) (db:swissprot) Y790_METJA Q58200 METHANOCOCCUS JANNASCHII 2190 -11541670 173718 hypothetical protein mj0790 (db:pir2.dat) (mp:for713012-713701) F64398 F64398 Methanococcus jannaschii 2190 -11541670 247224 mj0790 nadh dehydrogenase:subunit 1 isolog (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:similar to gp:1236426 percent identity: 31.29;) (le:6939) (re:7628) (di:direct) U67523 U67523 g1591488 Methanococcus jannaschii 2190 -11541670 6500737812 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0790 MJ0790 Methanococcus jannaschii 2190 -11541670

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938792	21599	43755	597	199

Description

5000698909 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0792 MJ0792 Methanococcus jannaschii 2190 -11541671 5500686400 mj0792 (de:hypothetical protein mj0792) (db:swissprot) Y792_METJA Q58202 METHANOCOCCUS JANNASCHII 2190 -11541671 173719 hypothetical protein mj0792 (db:pir2.dat) (mp:for715513-715782) H64398 H64398 Methanococcus jannaschii 2190 -11541671 247226 mj0792 m. jannaschii predicted coding region mj0792 (db:genpept-bct1) (de:methanococcus jannaschii section 65 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9440) (re:9709) (di:direct) U67523 U67523 g1591490 Methanococcus jannaschii 2190 -11541671 6500737813 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0792 MJ0792 Methanococcus jannaschii 2190 -11541671

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938799	21600	43756	348	115

Description

5000698910 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0793 MJ0793 Methanococcus jannaschii 2190 -11541672 5500686401 mj0793 (de:hypothetical protein mj0793) (db:swissprot) Y793_METJA Q58203 METHANOCOCCUS JANNASCHII 2190 -11541672 173720 hypothetical protein mj0793 (db:pir2.dat) (mp:for716400-716936) A64399 A64399 Methanococcus jannaschii 2190 -11541672 247227 mj0793 m. jannaschii predicted coding region mj0793 (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:607) (re:1143) (di:direct) U67524 U67524 g1499615 Methanococcus jannaschii 2190 -11541672 6500737814 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0793 MJ0793 Methanococcus jannaschii 2190 -11541672

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938803	21601	43757	345	114

Description

GTC ORF with score 390 to: (fn:atp:d-pantothenate 4'-phosphotransferase) (db:genpept) (ec:2.7.1.33) (de:emericella nidulans pantothenate kinase (pank) gene, complete cds.) (le:198:537:883:1429) (re:410:819:1381:1696) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938804	21602	43758	426	141

Description

GTC ORF with score 545 to: (fn:atp:d-pantothenate 4'-phosphotransferase) (db:genpept) (ec:2.7.1.33) (de:emericella nidulans pantothenate kinase (pank) gene, complete cds.) (le:198:537:883:1429) (re:410:819:1381:1696) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938806	21603	43759	498	166

Description

5000699431 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0794 MJ0794 Methanococcus jannaschii 2190 -11541673 5500686402 mj0794 (de:hypothetical protein mj0794) (db:swissprot) Y794_METJA Q58204 METHANOCOCCUS JANNASCHII 2190 -11541673 173721 hypothetical protein mj0794 (db:pir2.dat) (mp:for716985-717410) B64399 B64399 Methanococcus jannaschii 2190 -11541673 247228 mj0794 m. jannaschii predicted coding region mj0794 (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:hypothetical transmembrane protein; identified by) (le:1192) (re:1617) (di:direct) U67524 U67524 g1592308 Methanococcus jannaschii 2190 -11541673 6500737815 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0794 MJ0794 Methanococcus jannaschii 2190 -11541673

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938811	21604	43760	540	179

Description

5000698911 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0795 MJ0795 Methanococcus jannaschii 2190 -11541674 5500686403 mj0795 (de:hypothetical protein mj0795) (db:swissprot) Y795_METJA Q58205 METHANOCOCCUS JANNASCHII 2190 -11541674 173722 hypothetical protein mj0795 (db:pir2.dat) (mp:for717490-719004) C64399 C64399 Methanococcus jannaschii 2190 -11541674 247229 mj0795 m. jannaschii predicted coding region mj0795 (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1697) (re:3211) (di:direct) U67524 U67524 g1499617 Methanococcus jannaschii 2190 -11541674 6500737816 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0795 MJ0795 Methanococcus jannaschii 2190 -11541674

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938820	21605	43761	369	122

Description

5000699432 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0797 MJ0797 Methanococcus jannaschii 2190 -11541675 118849 mj0797 (de:hypothetical protein mj0797) (db:swissprot) Y797_METJA Q58207 METHANOCOCCUS JANNASCHII 2190 -11541675 173723 hypothetical protein mj0797 (db:pir2.dat) (mp:for720661-721764) E64399 E64399 Methanococcus jannaschii 2190 -11541675 247231 mj0797 hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:similar to pid:1653948 percent identity: 28.10;) (le:4868) (re:5971) (di:direct) U67524 U67524 g1591494 Methanococcus jannaschii 2190 -11541675 6500737817 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0797 MJ0797 Methanococcus jannaschii 2190 -11541675

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938825	21606	43762	390	129

Description

5000697976 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0799 MJ0799 Methanococcus jannaschii 2190 -11541676 5500686406 mj0799 (de:hypothetical protein mj0799) (db:swissprot) Y799_METJA Q58209 METHANOCOCCUS JANNASCHII 2190 -11541676 173725 hypothetical protein mj0799 (db:pir2.dat) (mp:for722782-723672) G64399 G64399 Methanococcus jannaschii 2190 -11541676 247233 mj0799 phosphoribosylformylglycinamidine cyclo-ligase (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:similar to gb:j02732 sp:p12043 pid:143371) (le:6989) (re:7879) (di:direct) U67524 U67524 g1591495 Methanococcus jannaschii 2190 -11541676 6500737818 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0799 MJ0799 Methanococcus jannaschii 2190 -11541676

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938826	21607	43763	372	124

Description

5000698912 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0801 MJ0801 Methanococcus jannaschii 2190 -11541677 118939 mj0801 (de:hypothetical atp-binding protein mj0801) (db:swissprot) Y801_METJA Q58211 METHANOCOCCUS JANNASCHII 2190 -11541677 173726 hypothetical protein mj0801 (db:pir2.dat) (mp:for725039-726178) A64400 A64400 Methanococcus jannaschii 2190 -11541677 247235 mj0801 m. jannaschii predicted coding region mj0801 (db:genpept-bct1) (de:methanococcus jannaschii section 66 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9246) (re:10385) (di:direct) U67524 U67524 g1499623 Methanococcus jannaschii 2190 -11541677 6500737819 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0801 MJ0801 Methanococcus jannaschii 2190 -11541677

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938833	21608	43764	399	132

Description

GTC ORF with score 173 to: (fn:involved in rhamnolipids synthesis) (db:genpept-bct2) (de:pseudomonas aeruginosa ctra, beta-ketoacyl reductase (rhlg), andregulator protein (rcsf) genes, complete cds.) (nt:rhlg) (le:1723) (re:2757) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938836	21609	43765	429	143

Description

5000698913 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0802 MJ0802 Methanococcus jannaschii 2190 -11541678 5500686407 mj0802 (de:hypothetical protein mj0802) (db:swissprot) Y802_METJA Q58212 METHANOCOCCUS JANNASCHII 2190 -11541678 173727 hypothetical protein mj0802 (db:pir2.dat) (mp:for726400-726966) B64400 B64400 Methanococcus jannaschii 2190 -11541678 247236 mj0802 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 32.96;) (le:136) (re:702) (di:direct) U67525 U67525 g1592309 Methanococcus jannaschii 2190 -11541678 6500737820 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0802 MJ0802 Methanococcus jannaschii 2190 -11541678

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938851	21610	43766	339	112

Description

5000698914 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0803 MJ0803 Methanococcus jannaschii 2190 -11541679 5500686408 mj0803 (de:hypothetical protein mj0803) (db:swissprot) Y803_METJA Q58213 METHANOCOCCUS JANNASCHII 2190 -11541679 173728 hypothetical protein mj0803 (db:pir2.dat) (mp:for726986-727504) C64400 C64400 Methanococcus jannaschii 2190 -11541679 247237 mj0803 m. jannaschii predicted coding region mj0803 (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:722) (re:1240) (di:direct) U67525 U67525 g1499626 Methanococcus jannaschii 2190 -11541679 6500737821 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0803 MJ0803 Methanococcus jannaschii 2190 -11541679

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938854	21611	43767	339	113

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938855	21612	43768	504	168

Description

5000698915 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0805 MJ0805 Methanococcus jannaschii 2190 -11541680 7500895529 mj0805 (de:hypothetical protein mj0805) (db:swissprot) Y805_METJA Q58215 METHANOCOCCUS JANNASCHII 2190 -11541680 173730 conserved hypothetical protein mj0805 (cl:methanococcus jannaschii conserved hypothetical protein mj0805) (db:pir2.dat) (mp:for728334-728999) E64400 E64400 Methanococcus jannaschii 2190 -11541680 7500895531 mj0805 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to pid:1419841 percent ident: 27.98;) (le:2070) (re:2735) (di:direct) U67525 U67525 g1499628 Methanococcus jannaschii 2190 -11541680 6500737822 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0805 MJ0805 Methanococcus jannaschii 2190 -11541680 247239 mju67525 (le:728334) (re:728999) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0805 gn:mj0805 le:2070 re:2735 di:direct nt:identified by genemark; putative) U67525 U67525 g1499628 Methanococcus jannaschii 2190 -11541680

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938860	21613	43769	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938862	21614	43770	588	196

Description

5000698916 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0807 MJ0807 Methanococcus jannaschii 2190 -11541681 5500686412 mj0807 (de:hypothetical protein mj0807) (db:swissprot) Y807_METJA Q58217 METHANOCOCCUS JANNASCHII 2190 -11541681 173731 conserved hypothetical protein mj0807 (cl:methanococcus jannaschii conserved hypothetical protein mj0807) (db:pir2.dat) (mp:for730121-730675) G64400 G64400 Methanococcus jannaschii 2190 -11541681 247241 mj0807 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 44.68;) (le:3857) (re:4411) (di:direct) U67525 U67525 g1591499 Methanococcus jannaschii 2190 -11541681 6500737823 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0807 MJ0807 Methanococcus jannaschii 2190 -11541681

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938886	21615	43771	354	118

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938901	21616	43772	474	158

Description

5000698917 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0809 MJ0809 Methanococcus jannaschii 2190 -11541682 5500686414 mj0809 (de:hypothetical protein mj0809) (db:swissprot) Y809_METJA Q58219 METHANOCOCCUS JANNASCHII 2190 -11541682 173733 hypothetical protein mj0809 (db:pir2.dat) (mp:for733027-733530) A64401 A64401 Methanococcus jannaschii 2190 -11541682 247243 mj0809 m. jannaschii predicted coding region mj0809 (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6763) (re:7266) (di:direct) U67525 U67525 g1499632 Methanococcus jannaschii 2190 -11541682 6500737824 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0809 MJ0809 Methanococcus jannaschii 2190 -11541682

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938912	21617	43773	717	238

Description

5000698918 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0810 MJ0810 Methanococcus jannaschii 2190 -11541683 5500686415 mj0810 (de:hypothetical protein mj0810) (db:swissprot) Y810_METJA Q58220 METHANOCOCCUS JANNASCHII 2190 -11541683 173734 hypothetical protein mj0810 (db:pir2.dat) (mp:for733583-734260) B64401 B64401 Methanococcus jannaschii 2190 -11541683 247244 mj0810 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to gp:949850 percent identity: 33.11;) (le:7319) (re:7996) (di:direct) U67525 U67525 g1592310 Methanococcus jannaschii 2190 -11541683 6500737825 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0810 MJ0810 Methanococcus jannaschii 2190 -11541683

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938914	21618	43774	546	182

Description

5000698919 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0811 MJ0811 Methanococcus jannaschii 2190 -11541684 118851 mj0811 (de:hypothetical protein mj0811) (db:swissprot) Y811_METJA Q58221 METHANOCOCCUS JANNASCHII 2190 -11541684 173735 hypothetical protein mj0811 (db:pir2.dat) (mp:rev735677-734358) C64401 C64401 Methanococcus jannaschii 2190 -11541684 247245 mj0811 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p03818 pid:290594) (le:8094) (re:9413) (di:complement) U67525 U67525 g1499634 Methanococcus jannaschii 2190 -11541684 6500737826 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0811 MJ0811 Methanococcus jannaschii 2190 -11541684

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938927	21619	43775	759	253

Description

5000698920 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0812 MJ0812 Methanococcus jannaschii 2190 -11541685 118852 mj0812 (de:hypothetical protein mj0812) (db:swissprot) Y812_METJA Q58222 METHANOCOCCUS JANNASCHII 2190 -11541685 173246 hypothetical protein homolog mj0812 (db:pir2.dat) (mp:rev736802-735681) D64401 D64401 Methanococcus jannaschii 2190 -11541685 247246 mj0812 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to gb:l10328 sp:p31473 pid:290596 gb:u00096) (le:9417) (re:10538) (di:complement) U67525 U67525 g1591501 Methanococcus jannaschii 2190 -11541685 6500737827 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0812 MJ0812 Methanococcus jannaschii 2190 -11541685

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938934	21620	43776	222	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938941	21621	43777	318	106

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938957	21622	43778	432	144

Description

5000698921 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0815 MJ0815 Methanococcus jannaschii 2190 -11541686 173736 hypothetical protein mj0815 (db:pir2.dat) (mp:rev739622-738696) G64401 G64401 Methanococcus jannaschii 2190 -11541686 247249 mj0815 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 39.27;) (le:12432) (re:13358) (di:complement) U67525 U67525 g1591504 Methanococcus jannaschii 2190 -11541686 6500737828 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0815 MJ0815 Methanococcus jannaschii 2190 -11541686

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938959	21623	43779	540	179

Description

5000698922 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0816 MJ0816 Methanococcus jannaschii 2190 -11541687 5500686416 mj0816 (de:hypothetical protein mj0816) (db:swissprot) Y816_METJA Q58226 METHANOCOCCUS JANNASCHII 2190 -11541687 173737 hypothetical protein mj0816 (db:pir2.dat) (mp:rev740544-739651) H64401 H64401 Methanococcus jannaschii 2190 -11541687 247250 mj0816 m. jannaschii predicted coding region mj0816 (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:13387) (re:14280) (di:complement) U67525 U67525 g1591505 Methanococcus jannaschii 2190 -11541687 6500737829 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0816 MJ0816 Methanococcus jannaschii 2190 -11541687

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938971	21624	43780	267	88

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938977	21625	43781	759	253

Description

5000698924 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0818 MJ0818 Methanococcus jannaschii 2190 -11541688 7000687092 mj0818 (de:hypothetical protein mj0818) (db:swissprot) Y818_METJA Q58228 METHANOCOCCUS JANNASCHII 2190 -11541688 173739 hypothetical protein mj0818 (db:pir2.dat) (mp:rev741735-741124) B64402 B64402 Methanococcus jannaschii 2190 -11541688 247252 mj0818 m. jannaschii predicted coding region mj0818 (db:genpept-bct1) (de:methanococcus jannaschii section 67 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:14860) (re:15471) (di:complement) U67525 U67525 g1591507 Methanococcus jannaschii 2190 -11541688 6500737830 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0818 MJ0818 Methanococcus jannaschii 2190 -11541688

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938984	21626	43782	699	232

Description

5000698925 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0819 MJ0819 Methanococcus jannaschii 2190 -11541689 5500686418 mj0819 (de:hypothetical protein mj0819) (db:swissprot) Y819_METJA Q58229 METHANOCOCCUS JANNASCHII 2190 -11541689 173740 hypothetical protein mj0819 (db:pir2.dat) (mp:rev742227-741898) C64402 C64402 Methanococcus jannaschii 2190 -11541689 247253 mj0819 m. jannaschii predicted coding region mj0819 (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:107) (re:436) (di:complement) U67526 U67526 g1592311 Methanococcus jannaschii 2190 -11541689 6500737831 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0819 MJ0819 Methanococcus jannaschii 2190 -11541689

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938992	21627	43783	576	191

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938993	21628	43784	330	110

Description

5000698926 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0820 MJ0820 Methanococcus jannaschii 2190 -11541690 5500686419 mj0820 (de:hypothetical protein mj0820) (db:swissprot) Y820_METJA Q58230 METHANOCOCCUS JANNASCHII 2190 -11541690 173741 hypothetical protein mj0820 (db:pir2.dat) (mp:rev742333-742190) D64402 D64402 Methanococcus jannaschii 2190 -11541690 247254 mj0820 m. jannaschii predicted coding region mj0820 (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:399) (re:542) (di:complement) U67526 U67526 g1591509 Methanococcus jannaschii 2190 -11541690 6500737832 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0820 MJ0820 Methanococcus jannaschii 2190 -11541690

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501938997	21629	43785	225	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939006	21630	43786	363	121

Description

5000698927 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0821 MJ0821 Methanococcus jannaschii 2190 -11541691 5500686420 mj0821 (de:hypothetical protein mj0821) (db:swissprot) Y821_METJA Q58231 METHANOCOCCUS JANNASCHII 2190 -11541691 173742 hypothetical protein mj0821 (db:pir2.dat) (mp:rev742767-742597) E64402 E64402 Methanococcus jannaschii 2190 -11541691 247255 mj0821 m. jannaschii predicted coding region mj0821 (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:806) (re:976) (di:complement) U67526 U67526 g1499645 Methanococcus jannaschii 2190 -11541691 6500737833 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0821 MJ0821 Methanococcus jannaschii 2190 -11541691

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939007	21631	43787	378	125

Description

5000698928 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0826 MJ0826 Methanococcus jannaschii 2190 -11541692 5500686421 mj0826 (de:hypothetical protein mj0826) (db:swissprot) Y826_METJA Q58236 METHANOCOCCUS JANNASCHII 2190 -11541692 173744 hypothetical protein mj0826 (db:pir2.dat) (mp:for747464-747880) B64403 B64403 Methanococcus jannaschii 2190 -11541692 247260 mj0826 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:similar to gp:1786696 percent identity: 24.82;) (le:5673) (re:6089) (di:direct) U67526 U67526 g1591513 Methanococcus jannaschii 2190 -11541692 6500737834 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0826 MJ0826 Methanococcus jannaschii 2190 -11541692

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939010	21632	43788	417	138

Description

5000698312 conserved hypothetical membrane protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0827 MJ0827 Methanococcus jannaschii 2190 -11541693 4000707627 mj0827 (de:hypothetical protein mj0827) (db:swissprot) Y827_METJA Q58237 METHANOCOCCUS JANNASCHII 2190 -11541693 174320 membrane protein homolog (cl:erythrocyte band 7 integral membrane protein) (db:pir2.dat) (mp:for747867-748466) C64403 C64403 Methanococcus jannaschii 2190 -11541693 247261 mj0827 membrane protein:putative regulator of cation (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:similar to gb:m81635 gb:x60067 sp:p27105) (le:6076) (re:6675) (di:direct) U67526 U67526 g1591514 Methanococcus jannaschii 2190 -11541693 6500737835 conserved hypothetical membrane protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0827 MJ0827 Methanococcus jannaschii 2190 -11541693

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939018	21633	43789	525	174

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939022	21634	43790	321	106

Description

5000698929 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0828 MJ0828 Methanococcus jannaschii 2190 -11541694 5500686422 mj0828 (de:hypothetical protein mj0828) (db:swissprot) Y828_METJA Q58238 METHANOCOCCUS JANNASCHII 2190 -11541694 173247 hypothetical protein homolog mj0828 (db:pir2.dat) (mp:for748498-748698) D64403 D64403 Methanococcus jannaschii 2190 -11541694 247262 mj0828 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:similar to gb:m35130 pid:150075 percent identity:) (le:6707) (re:6907) (di:direct) U67526 U67526 g1591515 Methanococcus jannaschii 2190 -11541694 6500737836 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0828 MJ0828 Methanococcus jannaschii 2190 -11541694

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939025	21635	43791	681	227

Description

GTC ORF with score 161 to: (sr:mice macrophage) (db:genpept-rod) (de:putative transcription regulator {clone t2, repetitive sequence}(mice, macrophage, mrna, 1263 nt).) (nt:method: conceptual translation supplied by author.) (le:55) (re:732) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939026	21636	43792	222	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939027	21637	43793	483	161

Description

5000698930 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0830 MJ0830 Methanococcus jannaschii 2190 -11541695 5500686423 mj0830 (de:hypothetical protein mj0830) (db:swissprot) Y830_METJA Q58240 METHANOCOCCUS JANNASCHII 2190 -11541695 173745 hypothetical protein mj0830 (db:pir2.dat) (mp:rev750858-750100) F64403 F64403 Methanococcus jannaschii 2190 -11541695 247264 mj0830 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:similar to pid:1652988 percent identity: 29.67;) (le:8309) (re:9067) (di:complement) U67526 U67526 g1591517 Methanococcus jannaschii 2190 -11541695 6500737837 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0830 MJ0830 Methanococcus jannaschii 2190 -11541695

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939030	21638	43794	471	157

Description

5000698161 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0831 MJ0831 Methanococcus jannaschii 2190 -11541696 5500686424 mj0831 (de:hypothetical protein mj0831) (db:swissprot) Y831_METJA Q58241 METHANOCOCCUS JANNASCHII 2190 -11541696 173746 hypothetical protein mj0831 (db:pir2.dat) (mp:for750952-752250) G64403 G64403 Methanococcus jannaschii 2190 -11541696 247265 mj0831 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 68 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 35.87;) (le:9161) (re:10459) (di:direct) U67526 U67526 g1591518 Methanococcus jannaschii 2190 -11541696 6500737838 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0831 MJ0831 Methanococcus jannaschii 2190 -11541696

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939044	21639	43795	414	138

Description

GTC ORF with score 176 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome ii cosmid c3e7.) (nt:spbc3e7.10, putative methionine aminopeptidase 1,) (le:23540:23709:23779:23885) (re:23656:23729:23824:24840) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939049	21640	43796	456	151

Description

5000698931 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0833 MJ0833 Methanococcus jannaschii 2190 -11541697 173747 hypothetical protein mj0833 (db:pir2.dat) (mp:rev759071-758238) A64404 A64404 Methanococcus jannaschii 2190 -11541697 5500686425 mj0833 (de:hypothetical protein mj0833) (db:swissprot) Y833_METJA Q58243 METHANOCOCCUS JANNASCHII 2190 -11541697 6500737839 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0833 MJ0833 Methanococcus jannaschii 2190 -11541697 247267 mju67527 (le:758238) (re:759071) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0833 gn:mj0833 le:5883 re:6716 di:complement nt:identified by genemark; putative) U67527 U67527 g1591521 Methanococcus jannaschii 2190 -11541697

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939054	21641	43797	198	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939060	21642	43798	282	93

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939071	21643	43799	300	100

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939082	21644	43800	465	154

Description

5000698932 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0834 MJ0834 Methanococcus jannaschii 2190 -11541698 5500686426 mj0834 (de:hypothetical protein mj0834) (db:swissprot) Y834_METJA Q58244 METHANOCOCCUS JANNASCHII 2190 -11541698 173748 hypothetical protein mj0834 (db:pir2.dat) (mp:rev759798-759082) B64404 B64404 Methanococcus jannaschii 2190 -11541698 247268 mj0834 m. jannaschii predicted coding region mj0834 (db:genpept-bct1) (de:methanococcus jannaschii section 69 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6727) (re:7443) (di:complement) U67527 U67527 g1591522 Methanococcus jannaschii 2190 -11541698 6500737840 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0834 MJ0834 Methanococcus jannaschii 2190 -11541698

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939089	21645	43801	588	195

Description

GTC ORF with score 196 to: (fn:involved in heterokaryon incompatibility) (sr:podospora anserina dna) (db:genpept-vrl) (de:podospora anserina beta transducin-like protein (het-e1) gene,complete cds.) (nt:putative) (le:810:3142) (re:3092:4929) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939090	21646	43802	579	193

Description

GTC ORF with score 155 to: (sr:thale cress) (db:genpept-pln2) (de:arabidopsis thaliana dna chromosome 4, bac clone f28a23 (essaiiproject).) (nt:strong similarity to phosphoglycerate) (le:14023:14850:15428:15872) (re:14578:15337:15523:16543) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939095	21647	43803	210	70

Description

5000698933 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0835 MJ0835 Methanococcus jannaschii 2190 -11541699 5500686427 mj0835 (de:hypothetical protein mj0835) (db:swissprot) Y835_METJA Q58245 METHANOCOCCUS JANNASCHII 2190 -11541699 173749 hypothetical protein mj0835 (db:pir2.dat) (mp:rev760954-759821) C64404 C64404 Methanococcus jannaschii 2190 -11541699 247269 mj0835 m. jannaschii predicted coding region mj0835 (db:genpept-bct1) (de:methanococcus jannaschii section 69 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7466) (re:8599) (di:complement) U67527 U67527 g1591523 Methanococcus jannaschii 2190 -11541699 6500737841 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0835 MJ0835 Methanococcus jannaschii 2190 -11541699

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939106	21648	43804	390	130

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939110	21649	43805	270	90

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939112	21650	43806	192	63

Description

5000698934 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0836 MJ0836 Methanococcus jannaschii 2190 -11541700 5500686428 mj0836 (de:hypothetical protein mj0836) (db:swissprot) Y836_METJA Q58246 METHANOCOCCUS JANNASCHII 2190 -11541700 173750 hypothetical protein mj0836 (db:pir2.dat) (mp:rev762788-762429) D64404 D64404 Methanococcus jannaschii 2190 -11541700 247270 mj0836 m. jannaschii predicted coding region mj0836 (db:genpept-bct1) (de:methanococcus jannaschii section 69 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10074) (re:10433) (di:complement) U67527 U67527 g2826332 Methanococcus jannaschii 2190 -11541700 7000687094 mj0836 m. jannaschii predicted coding region mj0836 (db:genpept-bct1) (de:methanococcus jannaschii section 69 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10074) (re:10433) (di:complement) U67527 L77117 g2826332 Methanococcus jannaschii 2190 -11541700 6500737842 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0836 MJ0836 Methanococcus jannaschii 2190 -11541700

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939113	21651	43807	243	80

Description

5000699433 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0837 MJ0837 Methanococcus jannaschii 2190 -11541701 5500686429 mj0837 (de:hypothetical protein mj0837) (db:swissprot) Y837_METJA Q58247 METHANOCOCCUS JANNASCHII 2190 -11541701 173751 hypothetical protein mj0837 (db:pir2.dat) (mp:for762862-763611) E64404 E64404 Methanococcus jannaschii 2190 -11541701 247271 mj0837 cmp-binding-factor 1 isolog (db:genpept-bct1) (de:methanococcus jannaschii section 70 of 150 of the complete genome.) (nt:similar to pid:710422 percent identity: 32.56;) (le:59) (re:808) (di:direct) U67528 U67528 g1499663 Methanococcus jannaschii 2190 -11541701 6500737843 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0837 MJ0837 Methanococcus jannaschii 2190 -11541701

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939119	21652	43808	228	75

Description

5000698935 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0838 MJ0838 Methanococcus jannaschii 2190 -11541702 4000708415 mj0838 (de:hypothetical protein mj0838) (db:swissprot) Y838_METJA Q58248 METHANOCOCCUS JANNASCHII 2190 -11541702 173752 hypothetical protein mj0838 (cl:methanococcus jannaschii conserved hypothetical protein mj0575) (db:pir2.dat) (mp:for764150-764821) F64404 F64404 Methanococcus jannaschii 2190 -11541702 247272 mj0838 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 70 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 40.49;) (le:1347) (re:2018) (di:direct) U67528 U67528 g1591525 Methanococcus jannaschii 2190 -11541702 6500737844 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0838 MJ0838 Methanococcus jannaschii 2190 -11541702

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939128	21653	43809	258	85

Description

5000698937 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0840 MJ0840 Methanococcus jannaschii 2190 -11541703 5500686431 mj0840 (de:hypothetical protein mj0840) (db:swissprot) Y840_METJA Q58250 METHANOCOCCUS JANNASCHII 2190 -11541703 173754 hypothetical protein mj0840 (cl:conserved hypothetical protein mj0840) (db:pir2.dat) (mp:for765985-766977) H64404 H64404 Methanococcus jannaschii 2190 -11541703 247274 mj0840 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 70 of 150 of the complete genome.) (nt:similar to pid:1196654 sp:q50834 percent identity:) (le:3182) (re:4174) (di:direct) U67528 U67528 g1591527 Methanococcus jannaschii 2190 -11541703 6500737845 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0840 MJ0840 Methanococcus jannaschii 2190 -11541703

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939137	21654	43810	201	66

Description

5000698938 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0841 MJ0841 Methanococcus jannaschii 2190 -11541704 5500686433 mj0841 (de:hypothetical protein mj0841) (db:swissprot) Y841_METJA Q58251 METHANOCOCCUS JANNASCHII 2190 -11541704 173755 hypothetical protein mj0841 (db:pir2.dat) (mp:rev768227-766980) A64405 A64405 Methanococcus jannaschii 2190 -11541704 247275 mj0841 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 70 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 54.35;) (le:4177) (re:5424) (di:complement) U67528 U67528 g1499667 Methanococcus jannaschii 2190 -11541704 6500737846 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0841 MJ0841 Methanococcus jannaschii 2190 -11541704

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939148	21655	43811	375	124

Description

5000698939 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0855 MJ0855 Methanococcus jannaschii 2190 -11541705 500685026 mj0855 (de:hypothetical protein mj0855) (db:swissprot) Y855_METJA Q58265 METHANOCOCCUS JANNASCHII 2190 -11541705 173756 hypothetical protein mj0855 (db:pir2.dat) (mp:for779194-779880) G64406 G64406 Methanococcus jannaschii 2190 -11541705 247289 mj0855 m. jannaschii predicted coding region mj0855 (db:genpept-bct1) (de:methanococcus jannaschii section 71 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7465) (re:8151) (di:direct) U67529 U67529 g1591540 Methanococcus jannaschii 2190 -11541705 6500737847 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0855 MJ0855 Methanococcus jannaschii 2190 -11541705

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939154	21656	43812	186	62

Description

5000698940 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0856 MJ0856 Methanococcus jannaschii 2190 -11541706 5500686434 mj0856 (de:hypothetical protein mj0856) (db:swissprot) Y856_METJA Q58266 METHANOCOCCUS JANNASCHII 2190 -11541706 173757 hypothetical protein mj0856 (db:pir2.dat) (mp:rev780540-779995) H64406 H64406 Methanococcus jannaschii 2190 -11541706 247290 mj0856 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 71 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 27.81;) (le:8266) (re:8811) (di:complement) U67529 U67529 g1591541 Methanococcus jannaschii 2190 -11541706 6500737848 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0856 MJ0856 Methanococcus jannaschii 2190 -11541706

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939155	21657	43813	540	179

Description

GTC ORF with score 345 to: (fn:involved in production of the virulence factor) (db:genpept-pln1) (de:cochliobolus heterostrophus polyketide synthase (pks1) gene,complete cds.) (le:1324:1599:2141:2703) (re:1524:2083:2661:3353) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939159	21658	43814	585	195

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939164	21659	43815	492	164

Description

5000698941 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0857 MJ0857 Methanococcus jannaschii 2190 -11541707 5500686435 mj0857 (de:hypothetical protein mj0857) (db:swissprot) Y857_METJA Q58267 METHANOCOCCUS JANNASCHII 2190 -11541707 173758 hypothetical protein mj0857 (db:pir2.dat) (mp:rev781922-781098) A64407 A64407 Methanococcus jannaschii 2190 -11541707 247291 mj0857 m. jannaschii predicted coding region mj0857 (db:genpept-bct1) (de:methanococcus jannaschii section 71 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9369) (re:10193) (di:complement) U67529 U67529 g1591542 Methanococcus jannaschii 2190 -11541707 6500737849 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0857 MJ0857 Methanococcus jannaschii 2190 -11541707

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939169	21660	43816	741	247

Description

5000698942 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0858 MJ0858 Methanococcus jannaschii 2190 -11541708 5500686436 mj0858 (de:hypothetical protein mj0858) (db:swissprot) Y858_METJA Q58268 METHANOCOCCUS JANNASCHII 2190 -11541708 173759 hypothetical protein mj0858 (cl:hypothetical protein mj0858) (db:pir2.dat) (mp:rev782320-781979) B64407 B64407 Methanococcus jannaschii 2190 -11541708 247292 mj0858 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 72 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 31.82;) (le:54) (re:395) (di:complement) U67530 U67530 g1499686 Methanococcus jannaschii 2190 -11541708 6500737850 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0858 MJ0858 Methanococcus jannaschii 2190 -11541708

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939174	21661	43817	531	177

Description

5000698943 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0859 MJ0859 Methanococcus jannaschii 2190 -11541709 5500686437 mj0859 (de:hypothetical protein mj0859) (db:swissprot) Y859_METJA Q58269 METHANOCOCCUS JANNASCHII 2190 -11541709 173760 hypothetical protein mj0859 (db:pir2.dat) (mp:rev782848-782354) C64407 C64407 Methanococcus jannaschii 2190 -11541709 247293 mj0859 m. jannaschii predicted coding region mj0859 (db:genpept-bct1) (de:methanococcus jannaschii section 72 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:429) (re:923) (di:complement) U67530 U67530 g1591544 Methanococcus jannaschii 2190 -11541709 6500737851 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0859 MJ0859 Methanococcus jannaschii 2190 -11541709

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939182	21662	43818	546	181

Description

5000698944 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0861 MJ0861 Methanococcus jannaschii 2190 -11541710 5500686438 mj0861 (de:hypothetical protein mj0861) (db:swissprot) Y861_METJA Q58271 METHANOCOCCUS JANNASCHII 2190 -11541710 173286 hypothetical protein mg423 homolog (db:pir2.dat) (mp:rev785174-783828) E64407 E64407 Methanococcus jannaschii 2190 -11541710 247295 mj0861 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 72 of 150 of the complete genome.) (nt:similar to gb:l43967 pid:1045821 sp:p47385 percent) (le:1903) (re:3249) (di:complement) U67530 U67530 g1591546 Methanococcus jannaschii 2190 -11541710 6500737852 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0861 MJ0861 Methanococcus jannaschii 2190 -11541710

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939191	21663	43819	321	106

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939199	21664	43820	420	139

Description

5000698945 pir:s52979:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0862 MJ0862 Methanococcus jannaschii 2190 -11541711 5500686439 mj0862 (de:hypothetical protein mj0862) (db:swissprot) Y862_METJA Q58272 METHANOCOCCUS JANNASCHII 2190 -11541711 173248 carotenoid biosynthesis protein homolog (cl:carotenoid biosynthesis protein homolog) (db:pir2.dat) (mp:rev786385-785306) F64407 F64407 Methanococcus jannaschii 2190 -11541711 247296 mj0862 carotenoid biosynthetic gene erwcrts isolog (db:genpept-bct1) (de:methanococcus jannaschii section 72 of 150 of the complete genome.) (nt:similar to gp:1707831 percent identity: 42.09;) (le:3381) (re:4460) (di:complement) U67530 U67530 g1591547 Methanococcus jannaschii 2190 -11541711 6500737853 pir:s52979:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0862 MJ0862 Methanococcus jannaschii 2190 -11541711

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939200	21665	43821	189	63

Description

5000699434 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0865 MJ0865 Methanococcus jannaschii 2190 -11541712 5500686440 mj0865 (de:hypothetical protein mj0865) (db:swissprot) Y865_METJA Q58275 METHANOCOCCUS JANNASCHII 2190 -11541712 173761 conserved hypothetical protein mj0865 (cl:methanococcus jannaschii conserved hypothetical protein mj0865) (db:pir2.dat) (mp:for788241-789590) A64408 A64408 Methanococcus jannaschii 2190 -11541712 247299 mj0865 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 72 of 150 of the complete genome.) (nt:similar to pid:1061002 percent identity: 34.05;) (le:6316) (re:7665) (di:direct) U67530 U67530 g1591549 Methanococcus jannaschii 2190 -11541712 6500737854 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0865 MJ0865 Methanococcus jannaschii 2190 -11541712

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939202	21666	43822	498	165

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939203	21667	43823	450	149

Description

5000698946 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0867 MJ0867 Methanococcus jannaschii 2190 -11541713 121756 mj0867 (de:hypothetical protein mj0867) (db:swissprot) Y867_METJA Q58277 METHANOCOCCUS JANNASCHII 2190 -11541713 173197 hypothetical protein hi0019 homolog (cl:archaeoglobus fulgidus conserved hypothetical protein af1247) (db:pir2.dat) (mp:rev791272-789989) C64408 C64408 Methanococcus jannaschii 2190 -11541713 247301 mj0867 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 72 of 150 of the complete genome.) (nt:similar to sp:p54462 pid:1303812 pid:1890061) (le:8064) (re:9347) (di:complement) U67530 U67530 g1591550 Methanococcus jannaschii 2190 -11541713 6500737855 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0867 MJ0867 Methanococcus jannaschii 2190 -11541713

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939212	21668	43824	513	171

Description

5000698948 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0871 MJ0871 Methanococcus jannaschii 2190 -11541714 7500895578 mj0871 (de:hypothetical protein mj0871) (db:swissprot) Y871_METJA Q58281 METHANOCOCCUS JANNASCHII 2190 -11541714 173762 hypothetical protein mj0871 (db:pir2.dat) (mp:for795027-795980) G64408 G64408 Methanococcus jannaschii 2190 -11541714 7500895580 mj0871 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 73 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 39.58;) (le:3249) (re:4202) (di:direct) U67531 U67531 g1591555 Methanococcus jannaschii 2190 -11541714 6500737856 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0871 MJ0871 Methanococcus jannaschii 2190 -11541714 247305 mju67531 (le:795027) (re:795980) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0871 gn:mj0871 le:3249 re:4202 di:direct nt:identified by genemark; putative) U67531 U67531 g1591555 Methanococcus jannaschii 2190 -11541714

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939218	21669	43825	231	77

Description

5000698949 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0872 MJ0872 Methanococcus jannaschii 2190 -11541715 4000708416 mj0872 (de:hypothetical protein mj0872) (db:swissprot) Y872_METJA Q58282 METHANOCOCCUS JANNASCHII 2190 -11541715 173763 hypothetical protein mj0872 (db:pir2.dat) (mp:rev797238-796021) H64408 H64408 Methanococcus jannaschii 2190 -11541715 247306 mj0872 m. jannaschii predicted coding region mj0872 (db:genpept-bct1) (de:methanococcus jannaschii section 73 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4243) (re:5460) (di:complement) U67531 U67531 g1499701 Methanococcus jannaschii 2190 -11541715 6500737857 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0872 MJ0872 Methanococcus jannaschii 2190 -11541715

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939224	21670	43826	363	120

Description

5000698950 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0874 MJ0874 Methanococcus jannaschii 2190 -11541716 7500895585 mj0874 (de:hypothetical protein mj0874) (db:swissprot) Y874_METJA Q58284 METHANOCOCCUS JANNASCHII 2190 -11541716 173764 hypothetical protein mj0874 (db:pir2.dat) (mp:for798215-798496) B64409 B64409 Methanococcus jannaschii 2190 -11541716 7500895587 mj0874 m. jannaschii predicted coding region mj0874 (db:genpept-bct1) (de:methanococcus jannaschii section 73 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6437) (re:6718) (di:direct) U67531 U67531 g1499703 Methanococcus jannaschii 2190 -11541716 6500737858 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0874 MJ0874 Methanococcus jannaschii 2190 -11541716 247308 mju67531 (le:798215) (re:798496) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0874 gn:mj0874 le:6437 re:6718 di:direct nt:identified by genemark; putative) U67531 U67531 g1499703 Methanococcus jannaschii 2190 -11541716

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939227	21671	43827	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939229	21672	43828	324	107

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939244	21673	43829	210	70

Description

5000698951 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0875 MJ0875 Methanococcus jannaschii 2190 -11541717 7500895588 mj0875 (de:hypothetical protein mj0875) (db:swissprot) Y875_METJA Q58285 METHANOCOCCUS JANNASCHII 2190 -11541717 173765 hypothetical protein mj0875 (db:pir2.dat) (mp:for798613-800859) C64409 C64409 Methanococcus jannaschii 2190 -11541717 7500895590 mj0875 m. jannaschii predicted coding region mj0875 (db:genpept-bct1) (de:methanococcus jannaschii section 73 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6835) (re:9081) (di:direct) U67531 U67531 g1499704 Methanococcus jannaschii 2190 -11541717 6500737859 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0875 MJ0875 Methanococcus jannaschii 2190 -11541717 247309 mju67531 (le:798613) (re:800859) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0875 gn:mj0875 le:6835 re:9081 di:direct nt:identified by genemark; putative) U67531 U67531 g1499704 Methanococcus jannaschii 2190 -11541717

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939251	21674	43830	513	171

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939254	21675	43831	534	178

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939258	21676	43832	204	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939259	21677	43833	486	161

Description

5000698952 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0878 MJ0878 Methanococcus jannaschii 2190 -11541718 4000708417 mj0878 (de:hypothetical protein mj0878) (db:swissprot) Y878_METJA Q58288 METHANOCOCCUS JANNASCHII 2190 -11541718 173766 hypothetical protein mj0878 (db:pir2.dat) (mp:for803149-804393) F64409 F64409 Methanococcus jannaschii 2190 -11541718 247312 mj0878 m. jannaschii predicted coding region mj0878 (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:146) (re:1390) (di:direct) U67532 U67532 g1499708 Methanococcus jannaschii 2190 -11541718 6500737860 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0878 MJ0878 Methanococcus jannaschii 2190 -11541718

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939262	21678	43834	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939269	21679	43835	519	172

Description

5000698953 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0880 MJ0880 Methanococcus jannaschii 2190 -11541719 7500895600 mj0880 (de:hypothetical protein mj0880) (db:swissprot) Y880_METJA Q58290 METHANOCOCCUS JANNASCHII 2190 -11541719 173767 hypothetical protein mj0880 (db:pir2.dat) (mp:for805404-806330) H64409 H64409 Methanococcus jannaschii 2190 -11541719 7500895602 mj0880 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 26.24;) (le:2401) (re:3327) (di:direct) U67532 U67532 g1499710 Methanococcus jannaschii 2190 -11541719 6500737861 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0880 MJ0880 Methanococcus jannaschii 2190 -11541719 247314 mju67532 (le:805404) (re:806330) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0880 gn:mj0880 le:2710 re:3636 di:direct nt:identified by genemark; putative) U67532 U67532 g1499710 Methanococcus jannaschii 2190 -11541719

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939271	21680	43836	363	120

Description

5000698954 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0882 MJ0882 Methanococcus jannaschii 2190 -11541720 7000687095 mj0882 (de:hypothetical protein mj0882) (db:swissprot) Y882_METJA Q58292 METHANOCOCCUS JANNASCHII 2190 -11541720 173250 hypothetical protein homolog mj0882 (cl:hypothetical protein mj0882) (db:pir2.dat) (mp:for807781-808374) B64410 B64410 Methanococcus jannaschii 2190 -11541720 247316 mj0882 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:similar to gb:l24376 sp:p37872 pid:402362) (le:4778) (re:5371) (di:direct) U67532 U67532 g1499712 Methanococcus jannaschii 2190 -11541720 6500737862 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0882 MJ0882 Methanococcus jannaschii 2190 -11541720

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939277	21681	43837	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939281	21682	43838	522	174

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939287	21683	43839	342	114

Description

GTC ORF with score 213 to: (fn:converts indole-3-acetaldehyde to) (db:genpept-pln2) (ec:1.2.1.3) (de:ustilago maydis cytosolic indole-3-acetaldehyde dehydrogenase(iad1) gene, complete cds.) (nt:cytosolic protein; belongs to the aldehyde) (le:55) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939293	21684	43840	234	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939296	21685	43841	462	153

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939303	21686	43842	534	178

Description

5000698955 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0883 MJ0883 Methanococcus jannaschii 2190 -11541721 7500895605 mj0883 (de:hypothetical protein mj0883) (db:swissprot) Y883_METJA Q58293 METHANOCOCCUS JANNASCHII 2190 -11541721 173768 hypothetical protein mj0883 (db:pir2.dat) (mp:for808399-809409) C64410 C64410 Methanococcus jannaschii 2190 -11541721 7500895607 mj0883 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:similar to sp:p38793 pid:487945 percent ident:) (le:5396) (re:6406) (di:direct) U67532 U67532 g1499713 Methanococcus jannaschii 2190 -11541721 6500737863 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0883 MJ0883 Methanococcus jannaschii 2190 -11541721 247317 mju67532 (le:808399) (re:809409) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0883 gn:mj0883 le:5705 re:6715 di:direct nt:identified by genemark; putative) U67532 U67532 g1499713 Methanococcus jannaschii 2190 -11541721

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939320	21687	43843	279	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939351	21688	43844	408	135

Description

5000698956 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0887 MJ0887 Methanococcus jannaschii 2190 -11541722 7500895612 mj0887 (de:hypothetical protein mj0887) (db:swissprot) Y887_METJA Q58297 METHANOCOCCUS JANNASCHII 2190 -11541722 173769 hypothetical protein mj0887 (cl:hypothetical protein mj0887) (db:pir2.dat) (mp:rev818882-818208) G64410 G64410 Methanococcus jannaschii 2190 -11541722 7500895614 mj0887 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 41.26;) (le:15205) (re:15879) (di:complement) U67532 U67532 g1591565 Methanococcus jannaschii 2190 -11541722 6500737864 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0887 MJ0887 Methanococcus jannaschii 2190 -11541722 247321 mju67532 (le:818208) (re:818882) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0887 gn:mj0887 le:15514 re:16188 di:complement nt:identified by genemark; putative) U67532 U67532 g1591565 Methanococcus jannaschii 2190 -11541722

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939352	21689	43845	363	121

Description

5000698957 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0888 MJ0888 Methanococcus jannaschii 2190 -11541723 500685027 mj0888 (de:hypothetical protein mj0888) (db:swissprot) Y888_METJA Q58298 METHANOCOCCUS JANNASCHII 2190 -11541723 173251 hypothetical protein homolog mj0888 (db:pir2.dat) (mp:rev819507-818887) H64410 H64410 Methanococcus jannaschii 2190 -11541723 247322 mj0888 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 74 of 150 of the complete genome.) (nt:similar to sp:p54501 pid:1303871 gb:al009126) (le:15884) (re:16504) (di:complement) U67532 U67532 g1591566 Methanococcus jannaschii 2190 -11541723 6500737865 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0888 MJ0888 Methanococcus jannaschii 2190 -11541723

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939356	21690	43846	231	76

Description

5000698958 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0889 MJ0889 Methanococcus jannaschii 2190 -11541724 7500895617 mj0889 (de:hypothetical protein mj0889) (db:swissprot) Y889_METJA Q58299 METHANOCOCCUS JANNASCHII 2190 -11541724 173770 hypothetical protein mj0889 (db:pir2.dat) (mp:for819596-821005) A64411 A64411 Methanococcus jannaschii 2190 -11541724 7500895619 mj0889 m. jannaschii predicted coding region mj0889 (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:70) (re:1479) (di:direct) U67533 U67533 g1592315 Methanococcus jannaschii 2190 -11541724 6500737866 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0889 MJ0889 Methanococcus jannaschii 2190 -11541724 247323 mju67533 (le:819596) (re:821005) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0889 gn:mj0889 le:70 re:1479 di:direct nt:identified by genemark; putative) U67533 U67533 g1592315 Methanococcus jannaschii 2190 -11541724

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939360	21691	43847	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939379	21692	43848	282	93

Description

5000698959 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0890 MJ0890 Methanococcus jannaschii 2190 -11541725 7500895624 mj0890 (de:hypothetical protein mj0890) (db:swissprot) Y890_METJA Q58300 METHANOCOCCUS JANNASCHII 2190 -11541725 173771 hypothetical protein mj0890 (db:pir2.dat) (mp:rev821431-821018) B64411 B64411 Methanococcus jannaschii 2190 -11541725 7500895626 mj0890 m. jannaschii predicted coding region mj0890 (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1492) (re:1905) (di:complement) U67533 U67533 g1499721 Methanococcus jannaschii 2190 -11541725 6500737867 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0890 MJ0890 Methanococcus jannaschii 2190 -11541725 247324 mju67533 (le:821018) (re:821431) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0890 gn:mj0890 le:1492 re:1905 di:complement nt:identified by genemark; putative) U67533 U67533 g1499721 Methanococcus jannaschii 2190 -11541725

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939392	21693	43849	408	136

Description

5000698960 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0894 MJ0894 Methanococcus jannaschii 2190 -11541726 7500881510 flac:mj0894 (de:putative flagella-related protein c) (db:swissprot) FLAC_METJA Q58304 METHANOCOCCUS JANNASCHII 2190 -11541726 173772 hypothetical protein mj0894 (db:pir2.dat) (mp:for824066-824491) F64411 F64411 Methanococcus jannaschii 2190 -11541726 7500881512 mj0894 flagella-related protein c:putative (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gp:2104775 percent ident: 59.12;) (le:4540) (re:4965) (di:direct) U67533 U67533 g1499725 Methanococcus jannaschii 2190 -11541726 6500737868 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0894 MJ0894 Methanococcus jannaschii 2190 -11541726 247328 mju67533 (le:824066) (re:824491) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0894 gn:mj0894 le:4540 re:4965 di:direct nt:identified by genemark; putative) U67533 U67533 g1499725 Methanococcus jannaschii 2190 -11541726

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939396	21694	43850	273	90

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939418	21695	43851	651	217

Description

5000698961 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0895 MJ0895 Methanococcus jannaschii 2190 -11541727 173773 hypothetical protein mj0895 (db:pir2.dat) (mp:for824469-825497) G64411 G64411 Methanococcus jannaschii 2190 -11541727 7500881515 flad:mj0895 (de:putative flagella-related protein d) (db:swissprot) FLAD_METJA Q58305 METHANOCOCCUS JANNASCHII 2190 -11541727 6500737869 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0895 MJ0895 Methanococcus jannaschii 2190 -11541727 247329 mju67533 (le:824469) (re:825497) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0895 gn:mj0895 le:4943 re:5971 di:direct nt:identified by genemark; putative) U67533 U67533 g1499726 Methanococcus jannaschii 2190 -11541727

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939436	21696	43852	240	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939441	21697	43853	360	120

Description

5000698962 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0896 MJ0896 Methanococcus jannaschii 2190 -11541728 7500881519 flae:mj0896 (de:putative flagella-related protein e) (db:swissprot) FLAE_METJA Q58306 METHANOCOCCUS JANNASCHII 2190 -11541728 173774 hypothetical protein mj0896 (db:pir2.dat) (mp:for825536-825958) H64411 H64411 Methanococcus jannaschii 2190 -11541728 7500881521 mj0896 flagella-related protein e:putative (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gp:2104777 percent ident: 65.65;) (le:6010) (re:6432) (di:direct) U67533 U67533 g1591572 Methanococcus jannaschii 2190 -11541728 6500737870 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0896 MJ0896 Methanococcus jannaschii 2190 -11541728 247330 mju67533 (le:825536) (re:825958) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0896 gn:mj0896 le:6010 re:6432 di:direct nt:identified by genemark; putative) U67533 U67533 g1591572 Methanococcus jannaschii 2190 -11541728

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939443	21698	43854	657	218

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939458	21699	43855	498	166

Description

5000698963 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0897 MJ0897 Methanococcus jannaschii 2190 -11541729 7500881524 flaf:mj0897 (de:putative flagella-related protein f precursor) (db:swissprot) FLAF_METJA Q58307 METHANOCOCCUS JANNASCHII 2190 -11541729 173775 hypothetical protein mj0897 (db:pir2.dat) (mp:for825948-826367) A64412 A64412 Methanococcus jannaschii 2190 -11541729 7500881526 mj0897 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gp:1707777 percent ident: 31.67;) (le:6422) (re:6841) (di:direct) U67533 U67533 g1499728 Methanococcus jannaschii 2190 -11541729 6500737871 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0897 MJ0897 Methanococcus jannaschii 2190 -11541729 247331 mju67533 (le:825948) (re:826367) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0897 gn:mj0897 le:6422 re:6841 di:direct nt:identified by genemark; putative) U67533 U67533 g1499728 Methanococcus jannaschii 2190 -11541729

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939459	21700	43856	456	152

Description

GTC ORF with score 122 to: (fn:cellular receptor for hepatitis a virus in) (sr:african green monkey) (db:genpept-pri3) (de:cercopithecus aethiops hepatitis a virus cellular receptor 1 shortform (havcr-1) mrna, complete cds.) (nt:mucin-like class i ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939468	21701	43857	297	99

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939472	21702	43858	324	108

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939480	21703	43859	501	167

Description

5000698964 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0898 MJ0898 Methanococcus jannaschii 2190 -11541730 7500881529 flag:mj0898 (de:putative flagella-related protein g) (db:swissprot) FLAG_METJA Q58308 METHANOCOCCUS JANNASCHII 2190 -11541730 173776 hypothetical protein mj0898 (db:pir2.dat) (mp:for826473-826937) B64412 B64412 Methanococcus jannaschii 2190 -11541730 7500881531 mj0898 flagella-related protein g:putative (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gp:2104779 percent ident: 46.67;) (le:6947) (re:7411) (di:direct) U67533 U67533 g1591573 Methanococcus jannaschii 2190 -11541730 6500737872 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0898 MJ0898 Methanococcus jannaschii 2190 -11541730 247332 mju67533 (le:826473) (re:826937) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0898 gn:mj0898 le:6947 re:7411 di:direct nt:identified by genemark; putative) U67533 U67533 g1591573 Methanococcus jannaschii 2190 -11541730

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939485	21704	43860	786	262

Description

5000698965 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0899 MJ0899 Methanococcus jannaschii 2190 -11541731 7500881534 flah:mj0899 (de:putative flagella-related protein h) (db:swissprot) FLAH_METJA Q58309 METHANOCOCCUS JANNASCHII 2190 -11541731 173777 hypothetical protein mj0899 (db:pir2.dat) (mp:for826947-827648) C64412 C64412 Methanococcus jannaschii 2190 -11541731 7500881536 mj0899 flagella-related protein h:putative (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gp:2104780 percent ident: 67.39;) (le:7421) (re:8122) (di:direct) U67533 U67533 g1591574 Methanococcus jannaschii 2190 -11541731 6500737873 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0899 MJ0899 Methanococcus jannaschii 2190 -11541731 247333 mju67533 (le:826947) (re:827648) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0899 gn:mj0899 le:7421 re:8122 di:direct nt:identified by genemark; putative) U67533 U67533 g1591574 Methanococcus jannaschii 2190 -11541731

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939501	21705	43861	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939502	21706	43862	327	108

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939508	21707	43863	279	92

Description

GTC ORF with score 145 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid f11h8.) (nt:coded for by c. elegans cdna cesab54f; similar to) (le:10479:10707:10839:10960) (re:10661:10789:10911:11097) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939522	21708	43864	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939524	21709	43865	309	102

Description

5000698966 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0901 MJ0901 Methanococcus jannaschii 2190 -11541732 7500895633 flaj:mj0901 (de:flagella accessory protein j) (db:swissprot) FLAJ_METJA Q58311 METHANOCOCCUS JANNASCHII 2190 -11541732 173779 hypothetical protein mj0901 (db:pir2.dat) (mp:for829315-831003) E64412 E64412 Methanococcus jannaschii 2190 -11541732 7500895635 mj0901 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 28.40;) (le:9789) (re:11477) (di:direct) U67533 U67533 g1591576 Methanococcus jannaschii 2190 -11541732 6500737874 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0901 MJ0901 Methanococcus jannaschii 2190 -11541732 247335 mju67533 (le:829315) (re:831003) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0901 gn:mj0901 le:9789 re:11477 di:direct nt:identified by genemark; putative) U67533 U67533 g1591576 Methanococcus jannaschii 2190 -11541732

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939529	21710	43866	432	144

Description

GTC ORF with score 99 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid t01c4.) (nt:similar to family 18 of glycosyl hydrolases) (le:11563:11892:12290:12455) (re:11740:12248:12411:12973) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939530	21711	43867	504	167

Description

5000698967 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0902 MJ0902 Methanococcus jannaschii 2190 -11541733 7500895637 mj0902 (de:hypothetical protein mj0902) (db:swissprot) Y902_METJA Q58312 METHANOCOCCUS JANNASCHII 2190 -11541733 173780 hypothetical protein mj0902 (db:pir2.dat) (mp:for831018-831734) F64412 F64412 Methanococcus jannaschii 2190 -11541733 7500895639 mj0902 m. jannaschii predicted coding region mj0902 (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:11492) (re:12208) (di:direct) U67533 U67533 g1591577 Methanococcus jannaschii 2190 -11541733 6500737875 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0902 MJ0902 Methanococcus jannaschii 2190 -11541733 247336 mju67533 (le:831018) (re:831734) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0902 gn:mj0902 le:11492 re:12208 di:direct nt:identified by genemark; putative) U67533 U67533 g1591577 Methanococcus jannaschii 2190 -11541733

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939534	21712	43868	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939555	21713	43869	450	150

Description

5000698968 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0903 MJ0903 Methanococcus jannaschii 2190 -11541734 7500895640 mj0903 (de:hypothetical protein mj0903) (db:swissprot) Y903_METJA Q58313 METHANOCOCCUS JANNASCHII 2190 -11541734 173781 hypothetical protein mj0903 (db:pir2.dat) (mp:for831929-833860) G64412 G64412 Methanococcus jannaschii 2190 -11541734 7500895642 mj0903 m. jannaschii predicted coding region mj0903 (db:genpept-bct1) (de:methanococcus jannaschii section 75 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:12403) (re:14334) (di:direct) U67533 U67533 g1591578 Methanococcus jannaschii 2190 -11541734 6500737876 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0903 MJ0903 Methanococcus jannaschii 2190 -11541734 247337 mju67533 (le:831929) (re:833860) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0903 gn:mj0903 le:12403 re:14334 di:direct nt:identified by genemark; putative) U67533 U67533 g1591578 Methanococcus jannaschii 2190 -11541734

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939556	21714	43870	417	138

Description

GTC ORF with score 295 to: (sr:fruit fly) (db:genpept-inv) (de:drosophila melanogaster gp150 protein and putative type iii alcoholdehydrogenase (t3dh) genes, partial cds.) (nt:gene predicted by genefinder, no cdna clones) (le:1920:2976:3507) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939588	21715	43871	504	168

Description

5000698969 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0904 MJ0904 Methanococcus jannaschii 2190 -11541735 7500895644 mj0904 (de:hypothetical protein mj0904) (db:swissprot) Y904_METJA Q58314 METHANOCOCCUS JANNASCHII 2190 -11541735 173782 hypothetical protein mj0904 (db:pir2.dat) (mp:for833965-834552) H64412 H64412 Methanococcus jannaschii 2190 -11541735 7500895646 mj0904 m. jannaschii predicted coding region mj0904 (db:genpept-bct1) (de:methanococcus jannaschii section 76 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:54) (re:641) (di:direct) U67534 U67534 g1591580 Methanococcus jannaschii 2190 -11541735 6500737877 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0904 MJ0904 Methanococcus jannaschii 2190 -11541735 247338 mju67534 (le:833965) (re:834552) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0904 gn:mj0904 le:54 re:641 di:direct nt:identified by genemark; putative) U67534 U67534 g1591580 Methanococcus jannaschii 2190 -11541735

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939590	21716	43872	345	115

Description

5000698970 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0905 MJ0905 Methanococcus jannaschii 2190 -11541736 7500895647 mj0905 (de:hypothetical protein mj0905) (db:swissprot) Y905_METJA Q58315 METHANOCOCCUS JANNASCHII 2190 -11541736 173783 hypothetical protein mj0905 (db:pir2.dat) (mp:for834624-834959) A64413 A64413 Methanococcus jannaschii 2190 -11541736 7500895649 mj0905 m. jannaschii predicted coding region mj0905 (db:genpept-bct1) (de:methanococcus jannaschii section 76 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:713) (re:1048) (di:direct) U67534 U67534 g1499737 Methanococcus jannaschii 2190 -11541736 6500737878 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0905 MJ0905 Methanococcus jannaschii 2190 -11541736 247339 mju67534 (le:834624) (re:834959) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0905 gn:mj0905 le:713 re:1048 di:direct nt:identified by genemark; putative) U67534 U67534 g1499737 Methanococcus jannaschii 2190 -11541736

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939597	21717	43873	183	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939600	21718	43874	315	104

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939601	21719	43875	765	255

Description

5000698971 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0906 MJ0906 Methanococcus jannaschii 2190 -11541737 7500895650 mj0906 (de:hypothetical protein mj0906) (db:swissprot) Y906_METJA Q58316 METHANOCOCCUS JANNASCHII 2190 -11541737 173784 hypothetical protein mj0906 (cl:bioc homology) (db:pir2.dat) (mp:for834961-836061) B64413 B64413 Methanococcus jannaschii 2190 -11541737 7500895652 mj0906 m. jannaschii predicted coding region mj0906 (db:genpept-bct1) (de:methanococcus jannaschii section 76 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1050) (re:2150) (di:direct) U67534 U67534 g1499738 Methanococcus jannaschii 2190 -11541737 6500737879 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0906 MJ0906 Methanococcus jannaschii 2190 -11541737 247340 mju67534 (le:834961) (re:836061) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0906 gn:mj0906 le:1050 re:2150 di:direct nt:identified by genemark; putative) U67534 U67534 g1499738 Methanococcus jannaschii 2190 -11541737

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939610	21720	43876	408	135

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939614	21721	43877	306	101

Description

5000698972 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0909 MJ0909 Methanococcus jannaschii 2190 -11541738 173786 hypothetical protein mj0909 (db:pir2.dat) (mp:for840950-841225) E64413 E64413 Methanococcus jannaschii 2190 -11541738 247343 mj0909 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 76 of 150 of the complete genome.) (nt:similar to gb:x64097 pid:396846 percent identity:) (le:7039) (re:7314) (di:direct) U67534 U67534 g1591583 Methanococcus jannaschii 2190 -11541738 6500737880 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0909 MJ0909 Methanococcus jannaschii 2190 -11541738

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939615	21722	43878	543	181

Description

5000698973 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0912 MJ0912 Methanococcus jannaschii 2190 -11541739 7500895659 mj0912 (de:hypothetical protein mj0912) (db:swissprot) Y912_METJA Q58322 METHANOCOCCUS JANNASCHII 2190 -11541739 173788 probable phosphoesterase:mj0912 (cl:probable phosphoesterase mj0912:phosphoesterase core homology) (ec:3.1.-.-) (db:pir1.dat) (mp:for843690-844421) H64413 H64413 Methanococcus jannaschii 2190 -11541739 7500895661 mj0912 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:similar to gp:1788638 percent ident: 31.17;) (le:128) (re:859) (di:direct) U67535 U67535 g1499745 Methanococcus jannaschii 2190 -11541739 6500737881 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0912 MJ0912 Methanococcus jannaschii 2190 -11541739 247346 mju67535 (le:843690) (re:844421) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0912 gn:mj0912 le:128 re:859 di:direct nt:identified by genemark; putative) U67535 U67535 g1499745 Methanococcus jannaschii 2190 -11541739

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939623	21723	43879	540	180

Description

5000698360 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0914 MJ0914 Methanococcus jannaschii 2190 -11541740 7500895662 mj0914 (de:hypothetical protein mj0915) (db:swissprot) Y914_METJA Q58324 METHANOCOCCUS JANNASCHII 2190 -11541740 173789 hypothetical protein mj0914 (cl:hypothetical protein mj0914) (db:pir2.dat) (mp:rev846192-845782) B64414 B64414 Methanococcus jannaschii 2190 -11541740 7500895664 mj0914 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:similar to gp:1707702 percent ident: 37.70;) (le:2220) (re:2630) (di:complement) U67535 U67535 g1591588 Methanococcus jannaschii 2190 -11541740 6500737882 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0914 MJ0914 Methanococcus jannaschii 2190 -11541740 247348 mju67535 (le:845782) (re:846192) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0914 gn:mj0914 le:2220 re:2630 di:complement nt:identified by genemark; putative) U67535 U67535 g1591588 Methanococcus jannaschii 2190 -11541740

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939635	21724	43880	342	113

Description

5000698974 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0915 MJ0915 Methanococcus jannaschii 2190 -11541741 7500895665 mj0915 (de:hypothetical protein mj0915) (db:swissprot) Y915_METJA Q58325 METHANOCOCCUS JANNASCHII 2190 -11541741 173790 hypothetical protein mj0915 (cl:hypothetical protein mj0915) (db:pir2.dat) (mp:rev847509-846706) C64414 C64414 Methanococcus jannaschii 2190 -11541741 7500895667 mj0915 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 41.31;) (le:3144) (re:3947) (di:complement) U67535 U67535 g1499748 Methanococcus jannaschii 2190 -11541741 6500737883 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0915 MJ0915 Methanococcus jannaschii 2190 -11541741 247349 mju67535 (le:846706) (re:847509) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0915 gn:mj0915 le:3144 re:3947 di:complement nt:identified by genemark; putative) U67535 U67535 g1499748 Methanococcus jannaschii 2190 -11541741

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939636	21725	43881	447	149

Description

GTC ORF with score 463 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome ii cosmid c1a4 left hand region 1-26184 bporiginates from chimeric cosmid.) (nt:spbc1a4.08c, len:528aa, similarity: to m. musculus,) (le:18643:20201:20313) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939640	21726	43882	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939647	21727	43883	444	147

Description

5000698975 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0916 MJ0916 Methanococcus jannaschii 2190 -11541742 173791 hypothetical protein mj0916 (cl:hypothetical protein mj0916) (db:pir2.dat) (mp:rev847877-847608) D64414 D64414 Methanococcus jannaschii 2190 -11541742 7500895669 mj0916 (de:hypothetical protein mj0916) (db:swissprot) Y916_METJA Q58326 METHANOCOCCUS JANNASCHII 2190 -11541742 6500737884 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0916 MJ0916 Methanococcus jannaschii 2190 -11541742 247350 mju67535 (le:847608) (re:847877) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0916 gn:mj0916 le:4046 re:4315 di:complement nt:identified by genemark; putative) U67535 U67535 g1591589 Methanococcus jannaschii 2190 -11541742

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939649	21728	43884	516	171

Description

5000698976 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0917 MJ0917 Methanococcus jannaschii 2190 -11541743 173792 hypothetical protein mj0917 (db:pir2.dat) (mp:for847952-849676) E64414 E64414 Methanococcus jannaschii 2190 -11541743 6500737885 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0917 MJ0917 Methanococcus jannaschii 2190 -11541743 247351 mju67535 (le:847952) (re:849676) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0917 gn:mj0917 le:4390 re:6114 di:direct nt:identified by genemark; putative) U67535 U67535 g1591590 Methanococcus jannaschii 2190 -11541743

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939653	21729	43885	216	71

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939654	21730	43886	459	152

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939656	21731	43887	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939663	21732	43888	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939677	21733	43889	624	207

Description

5000698977 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0919 MJ0919 Methanococcus jannaschii 2190 -11541744 7500895671 mj0919 (de:hypothetical protein mj0919) (db:swissprot) Y919_METJA Q58329 METHANOCOCCUS JANNASCHII 2190 -11541744 173793 hypothetical protein mj0919 (db:pir2.dat) (mp:rev850998-850549) G64414 G64414 Methanococcus jannaschii 2190 -11541744 7500895673 mj0919 m. jannaschii predicted coding region mj0919 (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6987) (re:7436) (di:complement) U67535 U67535 g1591592 Methanococcus jannaschii 2190 -11541744 6500737886 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0919 MJ0919 Methanococcus jannaschii 2190 -11541744 247353 mju67535 (le:850549) (re:850998) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0919 gn:mj0919 le:6987 re:7436 di:complement nt:identified by genemark; putative) U67535 U67535 g1591592 Methanococcus jannaschii 2190 -11541744

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939679	21734	43890	186	61

Description

GTC ORF with score 96 to: (sr:actinobacillus actinomycetemcomitans (strain:y4) dna) (db:genpept-bct1) (de:actinobacillus actinomycetemcomitans dna for nh4 transport protein,lysa sap,beta-ketoacyl-acp reductase and synthase iv, complete cds.) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939686	21735	43891	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939691	21736	43892	504	167

Description

5000698979 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0921 MJ0921 Methanococcus jannaschii 2190 -11541745 7500895677 mj0921 (de:hypothetical protein mj0921) (db:swissprot) Y921_METJA Q58331 METHANOCOCCUS JANNASCHII 2190 -11541745 173794 conserved hypothetical protein mj0921 (cl:methanococcus jannaschii conserved hypothetical protein mj0921) (db:pir2.dat) (mp:rev852472-851570) A64415 A64415 Methanococcus jannaschii 2190 -11541745 7500895679 mj0921 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 51.79;) (le:8008) (re:8910) (di:complement) U67535 U67535 g1591594 Methanococcus jannaschii 2190 -11541745 6500737887 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0921 MJ0921 Methanococcus jannaschii 2190 -11541745 247355 mju67535 (le:851570) (re:852472) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0921 gn:mj0921 le:8008 re:8910 di:complement nt:identified by genemark; putative) U67535 U67535 g1591594 Methanococcus jannaschii 2190 -11541745

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939704	21737	43893	750	250

Description

5000698980 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0922 MJ0922 Methanococcus jannaschii 2190 -11541746 118854 mj0922 (de:hypothetical protein mj0922) (db:swissprot) Y922_METJA Q58332 METHANOCOCCUS JANNASCHII 2190 -11541746 172938 yhcv homolog:acub homolog (cl:conserved hypothetical protein yhcv:cbs homology) (db:pir2.dat) (mp:rev853178-852762) B64415 B64415 Methanococcus jannaschii 2190 -11541746 247356 mj0922 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 77 of 150 of the complete genome.) (nt:similar to percent identity: 54.14; identified by) (le:9200) (re:9616) (di:complement) U67535 U67535 g1591595 Methanococcus jannaschii 2190 -11541746 6500737888 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0922 MJ0922 Methanococcus jannaschii 2190 -11541746

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939711	21738	43894	648	216

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939716	21739	43895	426	141

Description

5000698981 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0923 MJ0923 Methanococcus jannaschii 2190 -11541747 7500895681 mj0923 (de:hypothetical protein mj0923) (db:swissprot) Y923_METJA Q58333 METHANOCOCCUS JANNASCHII 2190 -11541747 173795 hypothetical protein mj0923 (db:pir2.dat) (mp:for853370-854263) C64415 C64415 Methanococcus jannaschii 2190 -11541747 7500895683 mj0923 m. jannaschii predicted coding region mj0923 (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:121) (re:1014) (di:direct) U67536 U67536 g1499757 Methanococcus jannaschii 2190 -11541747 6500737889 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0923 MJ0923 Methanococcus jannaschii 2190 -11541747 247357 mju67536 (le:853370) (re:854263) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0923 gn:mj0923 le:121 re:1014 di:direct nt:identified by genemark; putative) U67536 U67536 g1499757 Methanococcus jannaschii 2190 -11541747

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939720	21740	43896	372	123

Description

5000698982 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0925 MJ0925 Methanococcus jannaschii 2190 -11541748 173796 hypothetical protein mj0925 (db:pir2.dat) (mp:rev855531-855211) E64415 E64415 Methanococcus jannaschii 2190 -11541748 247359 mj0925 m. jannaschii predicted coding region mj0925 (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1962) (re:2282) (di:complement) U67536 U67536 g1499759 Methanococcus jannaschii 2190 -11541748 6500737890 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0925 MJ0925 Methanococcus jannaschii 2190 -11541748

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939722	21741	43897	249	82

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939727	21742	43898	519	172

Description

5000698983 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0926 MJ0926 Methanococcus jannaschii 2190 -11541749 7500895691 mj0926 (de:hypothetical protein mj0926) (db:swissprot) Y926_METJA Q58336 METHANOCOCCUS JANNASCHII 2190 -11541749 173797 hypothetical protein mj0926 (db:pir2.dat) (mp:for856380-856643) F64415 F64415 Methanococcus jannaschii 2190 -11541749 7500895693 mj0926 m. jannaschii predicted coding region mj0926 (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3131) (re:3394) (di:direct) U67536 U67536 g1499760 Methanococcus jannaschii 2190 -11541749 6500737891 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0926 MJ0926 Methanococcus jannaschii 2190 -11541749 247360 mju67536 (le:856380) (re:856643) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0926 gn:mj0926 le:3131 re:3394 di:direct nt:identified by genemark; putative) U67536 U67536 g1499760 Methanococcus jannaschii 2190 -11541749

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939731	21743	43899	447	148

Description

5000698984 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0927 MJ0927 Methanococcus jannaschii 2190 -11541750 7500895695 mj0927 (de:hypothetical protein mj0927) (db:swissprot) Y927_METJA Q58337 METHANOCOCCUS JANNASCHII 2190 -11541750 173253 hypothetical protein homolog mj0927 (db:pir2.dat) (mp:rev857415-856666) G64415 G64415 Methanococcus jannaschii 2190 -11541750 7500895697 mj0927 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:similar to pid:726074 percent ident: 36.95;) (le:3417) (re:4166) (di:complement) U67536 U67536 g1591598 Methanococcus jannaschii 2190 -11541750 6500737892 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0927 MJ0927 Methanococcus jannaschii 2190 -11541750 247361 mju67536 (le:856666) (re:857415) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein (u19364_6) gn:mj0927 le:3417 re:4166 di:complement nt:similar to u19364_6 percent identity: 36.9;) U67536 U67536 g1591598 Methanococcus jannaschii 2190 -11541750

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939742	21744	43900	483	160

Description

5000698986 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0931 MJ0931 Methanococcus jannaschii 2190 -11541751 121761 thii:mj0931 (de:probable thiamin biosynthesis protein thii) (db:swissprot) THII_METJA Q58341 METHANOCOCCUS JANNASCHII 2190 -11541751 173285 conserved hypothetical mg372 related protein (cl:mycoplasma genitalium hypothetical protein mg372) (db:pir2.dat) (mp:for860923-862068) C64416 C64416 Methanococcus jannaschii 2190 -11541751 247365 mj0931 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:similar to gb:143967 sp:p47612 pid:1046082 percent) (le:7674) (re:8819) (di:direct) U67536 U67536 g1591602 Methanococcus jannaschii 2190 -11541751 6500737893 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0931 MJ0931 Methanococcus jannaschii 2190 -11541751

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939747	21745	43901	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939763	21746	43902	324	108

Description

5000698987 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0933 MJ0933 Methanococcus jannaschii 2190 -11541752 7500895703 mj0933 (de:hypothetical protein mj0933) (db:swissprot) Y933_METJA Q58343 METHANOCOCCUS JANNASCHII 2190 -11541752 173798 hypothetical protein mj0933 (cl:hypothetical protein mj0933) (db:pir2.dat) (mp:for862679-863395) E64416 E64416 Methanococcus jannaschii 2190 -11541752 7500895705 mj0933 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 78 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 40.71;) (le:9430) (re:10146) (di:direct) U67536 U67536 g1591604 Methanococcus jannaschii 2190 -11541752 6500737894 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0933 MJ0933 Methanococcus jannaschii 2190 -11541752 247367 mju67536 (le:862679) (re:863395) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0933 gn:mj0933 le:9430 re:10146 di:direct nt:identified by genemark; putative) U67536 U67536 g1591604 Methanococcus jannaschii 2190 -11541752

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939764	21747	43903	444	148

Description

GTC ORF with score 221 to: (sr:fission yeast) (db:genpept-pln2) (de:s.pombe chromosome ii cosmid c1a4 left hand region 1-26184 bporiginates from chimeric cosmid.) (nt:spbc1a4.09, len:680aa, similarity: to yor243c,) (le:21801) (re:23843) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939778	21748	43904	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939788	21749	43905	447	149

Description

GTC ORF with score 246 to: (fn:catalyzes nadph dependent reduction of) (db:genpept) (de:cochliobolus lunatus 17beta-hydroxysteroid dehydrogenase mrna,complete cds.) (nt:short chain alcohol dehydrogenase/reductase family) (le:58) (re:870) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939802	21750	43906	837	279

Description

5000698988 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0935 MJ0935 Methanococcus jannaschii 2190 -11541753 7500895706 mj0935 (de:hypothetical protein mj0935) (db:swissprot) Y935_METJA Q58345 METHANOCOCCUS JANNASCHII 2190 -11541753 173799 hypothetical protein mj0935 (db:pir2.dat) (mp:for864826-865452) G64416 G64416 Methanococcus jannaschii 2190 -11541753 7500895708 mj0935 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 79 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 31.97;) (le:1413) (re:2039) (di:direct) U67537 U67537 g1499770 Methanococcus jannaschii 2190 -11541753 6500737895 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0935 MJ0935 Methanococcus jannaschii 2190 -11541753 247369 mju67537 (le:864826) (re:865452) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0935 gn:mj0935 le:1413 re:2039 di:direct nt:identified by genemark; putative) U67537 U67537 g1499770 Methanococcus jannaschii 2190 -11541753

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939803	21751	43907	252	83

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939808	21752	43908	426	142

Description

5000699435 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0936 MJ0936 Methanococcus jannaschii 2190 -11541754 4000709977 mj0936 (de:hypothetical protein mj0936) (db:swissprot) Y936_METJA Q58346 METHANOCOCCUS JANNASCHII 2190 -11541754 173800 conserved hypothetical protein mj0936 (cl:methanococcus jannaschii conserved hypothetical protein mj0936) (db:pir2.dat) (mp:for865547-866047) H64416 H64416 Methanococcus jannaschii 2190 -11541754 247370 mj0936 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 79 of 150 of the complete genome.) (nt:similar to gp:1673676 percent identity: 35.54;) (le:2134) (re:2634) (di:direct) U67537 U67537 g1499771 Methanococcus jannaschii 2190 -11541754 6500737896 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0936 MJ0936 Methanococcus jannaschii 2190 -11541754

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939810	21753	43909	183	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939811	21754	43910	510	169

Description

5000698989 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0938 MJ0938 Methanococcus jannaschii 2190 -11541755 4000709942 mj0938 (de:hypothetical protein mj0938) (db:swissprot) Y938_METJA Q58348 METHANOCOCCUS JANNASCHII 2190 -11541755 173801 hypothetical protein mj0938 (cl:conserved hypothetical protein mj0938) (db:pir2.dat) (mp:rev868224-867472) B64417 B64417 Methanococcus jannaschii 2190 -11541755 247372 mj0938 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 79 of 150 of the complete genome.) (nt:similar to gp:1786699 percent identity: 35.17;) (le:4059) (re:4811) (di:complement) U67537 U67537 g1591606 Methanococcus jannaschii 2190 -11541755 6500737897 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0938 MJ0938 Methanococcus jannaschii 2190 -11541755

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939826	21755	43911	414	138

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939829	21756	43912	429	143

Description

GTC ORF with score 125 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid f38e9.) (nt:coded for by c. elegans cdna yk82b8.5; coded for by) (le:11693:13261:14140:14336) (re:11717:13483:14260:14473) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939834	21757	43913	426	141

Description

5000698990 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0939 MJ0939 Methanococcus jannaschii 2190 -11541756 4000708418 mj0939 (de:hypothetical protein mj0939) (db:swissprot) Y939_METJA Q58349 METHANOCOCCUS JANNASCHII 2190 -11541756 173802 hypothetical protein mj0939 (db:pir2.dat) (mp:for868277-869107) C64417 C64417 Methanococcus jannaschii 2190 -11541756 247373 mj0939 m. jannaschii predicted coding region mj0939 (db:genpept-bct1) (de:methanococcus jannaschii section 79 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4864) (re:5694) (di:direct) U67537 U67537 g1591607 Methanococcus jannaschii 2190 -11541756 6500737898 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0939 MJ0939 Methanococcus jannaschii 2190 -11541756

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939836	21758	43914	309	103

Description

5000698180 putative transcription initiation factor iiic:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0941 MJ0941 Methanococcus jannaschii 2190 -11541757 174572 transcription initiation factor iiic homolog (cl:transformation sensitive protein:tetratricopeptide repeat homology) (db:pir2.dat) (mp:for870427-871443) E64417 E64417 Methanococcus jannaschii 2190 -11541757 500685353 mj0941 (de:hypothetical protein mj0941) (db:swissprot) Y941_METJA Q57711 METHANOCOCCUS JANNASCHII 2190 -11541757 6500737899 putative transcription initiation factor iiic:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0941 MJ0941 Methanococcus jannaschii 2190 -11541757 247375 mju67537 (le:870427) (re:871443) (di:direct) (de:or:methanococcus jannaschii pn:putative transcription initiation factor iiic gn:mj0941 le:7014 re:8030 di:direct nt:similar to p33339 percent identity: 20.1;) U67537 U67537 g1591609 Methanococcus jannaschii 2190 -11541757

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939849	21759	43915	258	85

Description

5000698991 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0943 MJ0943 Methanococcus jannaschii 2190 -11541758 7500895716 mj0943 (de:hypothetical protein mj0943) (db:swissprot) Y943_METJA Q58353 METHANOCOCCUS JANNASCHII 2190 -11541758 173803 hypothetical protein mj0943 (db:pir2.dat) (mp:rev875122-873869) G64417 G64417 Methanococcus jannaschii 2190 -11541758 7500895718 mj0943 m. jannaschii predicted coding region mj0943 (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:323) (re:1576) (di:complement) U67538 U67538 g1591612 Methanococcus jannaschii 2190 -11541758 6500737900 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0943 MJ0943 Methanococcus jannaschii 2190 -11541758 247377 mju67538 (le:873869) (re:875122) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0943 gn:mj0943 le:323 re:1576 di:complement nt:identified by genemark; putative) U67538 U67538 g1591612 Methanococcus jannaschii 2190 -11541758

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939852	21760	43916	501	167

Description

5000698992 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0944 MJ0944 Methanococcus jannaschii 2190 -11541759 4000708419 mj0944 (de:hypothetical protein mj0944) (db:swissprot) Y944_METJA Q58354 METHANOCOCCUS JANNASCHII 2190 -11541759 173804 hypothetical protein mj0944 (cl:hypothetical protein mj0361) (db:pir2.dat) (mp:for875302-875664) H64417 H64417 Methanococcus jannaschii 2190 -11541759 247378 mj0944 m. jannaschii predicted coding region mj0944 (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1756) (re:2118) (di:direct) U67538 U67538 g1499780 Methanococcus jannaschii 2190 -11541759 6500737901 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0944 MJ0944 Methanococcus jannaschii 2190 -11541759

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939858	21761	43917	543	181

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939890	21762	43918	327	108

Description

5000698993 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0945 MJ0945 Methanococcus jannaschii 2190 -11541760 4000708420 mj0945 (de:hypothetical protein mj0945) (db:swissprot) Y945_METJA Q58355 METHANOCOCCUS JANNASCHII 2190 -11541760 173805 hypothetical protein mj0945 (db:pir2.dat) (mp:rev876360-875686) A64418 A64418 Methanococcus jannaschii 2190 -11541760 247379 mj0945 m. jannaschii predicted coding region mj0945 (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2140) (re:2814) (di:complement) U67538 U67538 g1499781 Methanococcus jannaschii 2190 -11541760 6500737902 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0945 MJ0945 Methanococcus jannaschii 2190 -11541760

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939893	21763	43919	402	134

Description

5000698994 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0948 MJ0948 Methanococcus jannaschii 2190 -11541761 4000708421 mj0948 (de:hypothetical protein mj0948) (db:swissprot) Y948_METJA Q58358 METHANOCOCCUS JANNASCHII 2190 -11541761 173806 hypothetical protein mj0948 (db:pir2.dat) (mp:rev881242-880667) D64418 D64418 Methanococcus jannaschii 2190 -11541761 247382 mj0948 m. jannaschii predicted coding region mj0948 (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7121) (re:7696) (di:complement) U67538 U67538 g1591615 Methanococcus jannaschii 2190 -11541761 6500737903 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0948 MJ0948 Methanococcus jannaschii 2190 -11541761

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939898	21764	43920	228	76

Description

GTC ORF with score 127 to: (or:Neurospora crassa) (db:genpept-pln1) (de:neurospora crassa calcineurin subunit b (cnb-1) gene, complete cds.) (nt:calcium, calmodulin-dependent protein phosphatase) (le:79:356:554:784) (re:130:408:627:1108) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939902	21765	43921	627	209

Description

5000698995 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0949 MJ0949 Methanococcus jannaschii 2190 -11541762 7500895723 mj0949 (de:hypothetical protein mj0949) (db:swissprot) Y949_METJA Q58359 METHANOCOCCUS JANNASCHII 2190 -11541762 173807 conserved hypothetical protein mj0949 (cl:methanococcus jannaschii conserved hypothetical protein mj0949) (db:pir2.dat) (mp:rev881639-881268) E64418 E64418 Methanococcus jannaschii 2190 -11541762 7500895725 mj0949 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 41.74;) (le:7722) (re:8093) (di:complement) U67538 U67538 g1591616 Methanococcus jannaschii 2190 -11541762 6500737904 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0949 MJ0949 Methanococcus jannaschii 2190 -11541762 247383 mju67538 (le:881268) (re:881639) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0949 gn:mj0949 le:7722 re:8093 di:complement nt:identified by genemark; putative) U67538 U67538 g1591616 Methanococcus jannaschii 2190 -11541762

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939913	21766	43922	456	152

Description

5000698996 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0950 MJ0950 Methanococcus jannaschii 2190 -11541763 173808 hypothetical protein mj0950 (db:pir2.dat) (mp:rev882384-881683) F64418 F64418 Methanococcus jannaschii 2190 -11541763 247384 mj0950 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 55.25;) (le:8137) (re:8838) (di:complement) U67538 U67538 g1591617 Methanococcus jannaschii 2190 -11541763 6500737905 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0950 MJ0950 Methanococcus jannaschii 2190 -11541763

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939919	21767	43923	390	129

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939921	21768	43924	387	129

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939922	21769	43925	222	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939925	21770	43926	369	122

Description

5000698997 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0951 MJ0951 Methanococcus jannaschii 2190 -11541764 7500895726 mj0951 (de:hypothetical protein mj0951) (db:swissprot) Y951_METJA Q58361 METHANOCOCCUS JANNASCHII 2190 -11541764 173809 conserved hypothetical protein mj0951 (cl:methanococcus jannaschii conserved hyqothetical protein mj0951) (db:pir2.dat) (mp:rev883636-882569) G64418 G64418 Methanococcus jannaschii 2190 -11541764 7500895728 mj0951 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 80 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 42.14;) (le:9023) (re:10090) (di:complement) U67538 U67538 g1591618 Methanococcus jannaschii 2190 -11541764 6500737906 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0951 MJ0951 Methanococcus jannaschii 2190 -11541764 247385 mju67538 (le:882569) (re:883636) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0951 gn:mj0951 le:9023 re:10090 di:complement nt:identified by genemark; putative) U67538 U67538 g1591618 Methanococcus jannaschii 2190 -11541764

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939934	21771	43927	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939935	21772	43928	285	95

Description

5000698998 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0952 MJ0952 Methanococcus jannaschii 2190 -11541765 7500895730 mj0952 (de:hypothetical protein mj0952) (db:swissprot) Y952_METJA Q58362 METHANOCOCCUS JANNASCHII 2190 -11541765 174288 hypothetical protein yml094w homolog (db:pir2.dat) (mp:rev884309-883881) H64418 H64418 Methanococcus jannaschii 2190 -11541765 7500895732 mj0952 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to sp:q04493 pid:575709 percent ident:) (le:87) (re:515) (di:complement) U67539 U67539 g1592316 Methanococcus jannaschii 2190 -11541765 6500737907 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0952 MJ0952 Methanococcus jannaschii 2190 -11541765 247386 mju67539 (le:883881) (re:884309) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein s49633 gn:mj0952 le:87 re:515 di:complement nt:similar to s49633 percent identity: 26.7;) U67539 U67539 g1592316 Methanococcus jannaschii 2190 -11541765

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939938	21773	43929	426	141

Description

5000698999 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0953 MJ0953 Methanococcus jannaschii 2190 -11541766 7500895733 mj0953 (de:hypothetical protein mj0953) (db:swissprot) Y953_METJA Q58363 METHANOCOCCUS JANNASCHII 2190 -11541766 173810 hypothetical protein mj0953 (db:pir2.dat) (mp:for884490-884792) A64419 A64419 Methanococcus jannaschii 2190 -11541766 7500895735 mj0953 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 52.00;) (le:696) (re:998) (di:direct) U67539 U67539 g1499790 Methanococcus jannaschii 2190 -11541766 6500737908 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0953 MJ0953 Methanococcus jannaschii 2190 -11541766 247387 mju67539 (le:884490) (re:884792) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0953 gn:mj0953 le:696 re:998 di:direct nt:identified by genemark; putative) U67539 U67539 g1499790 Methanococcus jannaschii 2190 -11541766

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939939	21774	43930	306	102

Description

5000699000 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0956 MJ0956 Methanococcus jannaschii 2190 -11541767 7500895736 mj0956 (de:hypothetical protein mj0956) (db:swissprot) Y956_METJA Q58366 METHANOCOCCUS JANNASCHII 2190 -11541767 173812 hypothetical protein mj0956 (db:pir2.dat) (mp:for887439-888221) D64419 D64419 Methanococcus jannaschii 2190 -11541767 7500895738 mj0956 m. jannaschii predicted coding region mj0956 (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3645) (re:4427) (di:direct) U67539 U67539 g1499793 Methanococcus jannaschii 2190 -11541767 6500737909 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0956 MJ0956 Methanococcus jannaschii 2190 -11541767 247390 mju67539 (le:887439) (re:888221) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0956 gn:mj0956 le:3645 re:4427 di:direct nt:identified by genemark; putative) U67539 U67539 g1499793 Methanococcus jannaschii 2190 -11541767

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939947	21775	43931	657	219

Description

5000699001 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0957 MJ0957 Methanococcus jannaschii 2190 -11541768 7500895739 mj0957 (de:hypothetical protein mj0957) (db:swissprot) Y957_METJA Q58367 METHANOCOCCUS JANNASCHII 2190 -11541768 173813 hypothetical protein mj0957 (db:pir2.dat) (mp:for888221-889273) E64419 E64419 Methanococcus jannaschii 2190 -11541768 7500895741 mj0957 m. jannaschii predicted coding region mj0957 (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4427) (re:5479) (di:direct) U67539 U67539 g1499794 Methanococcus jannaschii 2190 -11541768 6500737910 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0957 MJ0957 Methanococcus jannaschii 2190 -11541768 247391 mju67539 (le:888221) (re:889273) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0957 gn:mj0957 le:4427 re:5479 di:direct nt:identified by genemark; putative) U67539 U67539 g1499794 Methanococcus jannaschii 2190 -11541768

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939948	21776	43932	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939954	21777	43933	612	203

Description

GTC ORF with score 245 to: (db:genpept-inv) (de:caenorhabditis elegans cosmid f55b11, complete sequence.) (nt:predicted using genefinder; cdna est yk369e7.5) (le:24426:24649:24927:26086) (re:24572:24870:25233:26255) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939955	21778	43934	540	179

Description

5000699002 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0958 MJ0958 Methanococcus jannaschii 2190 -11541769 7500895742 mj0958 (de:hypothetical protein mj0958 precursor) (db:swissprot) Y958_METJA Q58368 METHANOCOCCUS JANNASCHII 2190 -11541769 173814 hypothetical protein mj0958 (db:pir2.dat) (mp:for889278-890558) F64419 F64419 Methanococcus jannaschii 2190 -11541769 7500895744 mj0958 m. jannaschii predicted coding region mj0958 (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5484) (re:6764) (di:direct) U67539 U67539 g1499795 Methanococcus jannaschii 2190 -11541769 6500737911 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0958 MJ0958 Methanococcus jannaschii 2190 -11541769 247392 mju67539 (le:889278) (re:890558) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0958 gn:mj0958 le:5484 re:6764 di:direct nt:identified by genemark; putative) U67539 U67539 g1499795 Methanococcus jannaschii 2190 -11541769

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939963	21779	43935	327	109

Description

5000699003 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0962 MJ0962 Methanococcus jannaschii 2190 -11541770 7500895746 mj0962 (de:hypothetical protein mj0962) (db:swissprot) Y962_METJA Q58372 METHANOCOCCUS JANNASCHII 2190 -11541770 173815 conserved hypothetical protein mj0962 (cl:methanococcus jannaschii conserved hypothetical protein mj0962) (db:pir2.dat) (mp:for894939-895325) B64420 B64420 Methanococcus jannaschii 2190 -11541770 7500895748 mj0962 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 48.72;) (le:11145) (re:11531) (di:direct) U67539 U67539 g1591626 Methanococcus jannaschii 2190 -11541770 6500737912 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0962 MJ0962 Methanococcus jannaschii 2190 -11541770 247396 mju67539 (le:894939) (re:895325) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0962 gn:mj0962 le:11145 re:11531 di:direct nt:identified by genemark; putative) U67539 U67539 g1591626 Methanococcus jannaschii 2190 -11541770

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501939983	21780	43936	711	237

Description

5000699004 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0966 MJ0966 Methanococcus jannaschii 2190 -11541771 173816 hypothetical protein mj0966 (cl:hypothetical protein mj0966) (db:pir2.dat) (mp:for899868-901202) F64420 F64420 Methanococcus jannaschii 2190 -11541771 247400 mj0966 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 81 of 150 of the complete genome.) (nt:similar to gp:1653565 percent identity: 28.23;) (le:16074) (re:17408) (di:direct) U67539 U67539 g1591630 Methanococcus jannaschii 2190 -11541771 6500737913 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0966 MJ0966 Methanococcus jannaschii 2190 -11541771

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940000	21781	43937	426	141

Description

5000699005 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0969 MJ0969 Methanococcus jannaschii 2190 -11541772 7500895754 mj0969 (de:hypothetical protein mj0969) (db:swissprot) Y969_METJA Q58379 METHANOCOCCUS JANNASCHII 2190 -11541772 173819 hypothetical protein mj0969 (db:pir2.dat) (mp:rev903937-903125) A64421 A64421 Methanococcus jannaschii 2190 -11541772 7500895756 mj0969 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 36.72;) (le:1887) (re:2699) (di:complement) U67540 U67540 g1591632 Methanococcus jannaschii 2190 -11541772 6500737914 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0969 MJ0969 Methanococcus jannaschii 2190 -11541772 247403 mju67540 (le:903125) (re:903937) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0969 gn:mj0969 le:1887 re:2699 di:complement nt:identified by genemark; putative) U67540 U67540 g1591632 Methanococcus jannaschii 2190 -11541772

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940005	21782	43938	354	118

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940010	21783	43939	504	168

Description

5000699006 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0970 MJ0970 Methanococcus jannaschii 2190 -11541773 7500895763 mj0970 (de:hypothetical protein mj0970) (db:swissprot) Y970_METJA Q58380 METHANOCOCCUS JANNASCHII 2190 -11541773 173820 conserved hypothetical protein mj0970 (cl:methanococcus jannaschii conserved hypothetical protein mj0970) (db:pir2.dat) (mp:rev904629-904198) B64421 B64421 Methanococcus jannaschii 2190 -11541773 7500895765 mj0970 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to gp:1001307 percent ident: 30.97;) (le:2960) (re:3391) (di:complement) U67540 U67540 g1591633 Methanococcus jannaschii 2190 -11541773 6500737915 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0970 MJ0970 Methanococcus jannaschii 2190 -11541773 247404 mju67540 (le:904198) (re:904629) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0970 gn:mj0970 le:2960 re:3391 di:complement nt:identified by genemark; putative) U67540 U67540 g1591633 Methanococcus jannaschii 2190 -11541773

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940014	21784	43940	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940023	21785	43941	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940027	21786	43942	183	61

Description

5000699007 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0971 MJ0971 Methanococcus jannaschii 2190 -11541774 7500895766 mj0971 (de:hypothetical protein mj0971) (db:swissprot) Y971_METJA Q58381 METHANOCOCCUS JANNASCHII 2190 -11541774 173821 hypothetical protein mj0971 (db:pir2.dat) (mp:for904752-905849) C64421 C64421 Methanococcus jannaschii 2190 -11541774 7500895768 mj0971 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to gp:1707806 percent ident: 29.74;) (le:3514) (re:4611) (di:direct) U67540 U67540 g1591634 Methanococcus jannaschii 2190 -11541774 6500737916 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0971 MJ0971 Methanococcus jannaschii 2190 -11541774 247405 mju67540 (le:904752) (re:905849) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0971 gn:mj0971 le:3514 re:4611 di:direct nt:identified by genemark; putative) U67540 U67540 g1591634 Methanococcus jannaschii 2190 -11541774

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940029	21787	43943	516	172

Description

5000699008 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0972 MJ0972 Methanococcus jannaschii 2190 -11541775 7500895769 mj0972 (de:hypothetical protein mj0972) (db:swissprot) Y972_METJA Q58382 METHANOCOCCUS JANNASCHII 2190 -11541775 173822 hypothetical protein mj0972 (cl:conserved hypothetical protein mj1677) (db:pir2.dat) (mp:for905807-906493) D64421 D64421 Methanococcus jannaschii 2190 -11541775 7500895771 mj0972 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to sp:p25743 gb:u00096 pid:1787494 percent) (le:4569) (re:5255) (di:direct) U67540 U67540 g1591635 Methanococcus jannaschii 2190 -11541775 6500737917 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0972 MJ0972 Methanococcus jannaschii 2190 -11541775 247406 mju67540 (le:905807) (re:906493) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0972 gn:mj0972 le:4569 re:5255 di:direct nt:identified by genemark; putative) U67540 U67540 g1591635 Methanococcus jannaschii 2190 -11541775

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940032	21788	43944	546	182

Description

5000699009 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0974 MJ0974 Methanococcus jannaschii 2190 -11541776 118856 mj0974 (de:hypothetical protein mj0974) (db:swissprot) Y974_METJA Q58384 METHANOCOCCUS JANNASCHII 2190 -11541776 173824 hypothetical protein mj0974 (cl:conserved hypothetical protein mj0974) (db:pir2.dat) (mp:rev908189-907740) F64421 F64421 Methanococcus jannaschii 2190 -11541776 247408 mj0974 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 49.64;) (le:6502) (re:6951) (di:complement) U67540 U67540 g1591637 Methanococcus jannaschii 2190 -11541776 6500737918 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0974 MJ0974 Methanococcus jannaschii 2190 -11541776

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940034	21789	43945	396	131

Description

5000699010 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0975 MJ0975 Methanococcus jannaschii 2190 -11541777 7500895774 mj0975 (de:hypothetical protein mj0975) (db:swissprot) Y975_METJA Q58385 METHANOCOCCUS JANNASCHII 2190 -11541777 173825 hypothetical protein mj0975 (db:pir2.dat) (mp:rev908367-908161) G64421 G64421 Methanococcus jannaschii 2190 -11541777 7500895776 mj0975 m. jannaschii predicted coding region mj0975 (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6923) (re:7129) (di:complement) U67540 U67540 g1591638 Methanococcus jannaschii 2190 -11541777 6500737919 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0975 MJ0975 Methanococcus jannaschii 2190 -11541777 247409 mju67540 (le:908161) (re:908367) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0975 gn:mj0975 le:6923 re:7129 di:complement nt:identified by genemark; putative) U67540 U67540 g1591638 Methanococcus jannaschii 2190 -11541777

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940047	21790	43946	495	165

Description

5000699011 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0976 MJ0976 Methanococcus jannaschii 2190 -11541778 7500895778 mj0976 (de:hypothetical protein mj0976) (db:swissprot) Y976_METJA Q58386 METHANOCOCCUS JANNASCHII 2190 -11541778 173826 hypothetical protein mj0976 (db:pir2.dat) (mp:for908465-909565) H64421 H64421 Methanococcus jannaschii 2190 -11541778 7500895780 mj0976 m. jannaschii predicted coding region mj0976 (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7227) (re:8327) (di:direct) U67540 U67540 g1591639 Methanococcus jannaschii 2190 -11541778 6500737920 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0976 MJ0976 Methanococcus jannaschii 2190 -11541778 247410 mju67540 (le:908465) (re:909565) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0976 gn:mj0976 le:7227 re:8327 di:direct nt:identified by genemark; putative) U67540 U67540 g1591639 Methanococcus jannaschii 2190 -11541778

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940052	21791	43947	315	105

Description

5000699012 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0977 MJ0977 Methanococcus jannaschii 2190 -11541779 5500686455 mj0977 (de:hypothetical protein mj0977) (db:swissprot) Y977_METJA Q58387 METHANOCOCCUS JANNASCHII 2190 -11541779 173827 conserved hypothetical protein mj0977 (cl:methanococcus jannaschii conserved hypothetical protein mj0977) (db:pir2.dat) (mp:for909596-911005) A64422 A64422 Methanococcus jannaschii 2190 -11541779 247411 mj0977 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 82 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 36.24;) (le:8358) (re:9767) (di:direct) U67540 U67540 g1591640 Methanococcus jannaschii 2190 -11541779 6500737921 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0977 MJ0977 Methanococcus jannaschii 2190 -11541779

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940056	21792	43948	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940069	21793	43949	186	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940070	21794	43950	588	196

Description

GTC ORF with score 243 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid f53f10.) (nt:similar to nucleoporins; coded for by c. elegans) (le:2756:2915:3079:4609) (re:2867:3007:4558:5079) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940074	21795	43951	294	97

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940079	21796	43952	612	203

Description

GTC ORF with score 161 to: (or:Aspergillus niger) (sr:aspergillus niger (library: lambda embl3; nrrl 3135) dna) (db:genpept-pln1) (de:aspergillus niger phytase (phyb) gene, complete cds.) (le:135:970:1143:1307) (re:915:1087:1247:1742) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940085	21797	43953	450	150

Description

GTC ORF with score 108 to: (sr:caenorhabditis elegans (strain bristol n2) hermaphrodite mixe) (db:genpept-inv) (de:c. elegans cosmid c06e1.) (nt:coded for by c. elegans cdna ce2e8 (genbank:) (le:30511:30833:31260) (re:30757:31212:31499) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940088	21798	43954	219	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940089	21799	43955	213	70

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940106	21800	43956	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940107	21801	43957	633	211

Description

5000699013 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0978 MJ0978 Methanococcus jannaschii 2190 -11541780 7500895782 mj0978 (de:hypothetical protein mj0978) (db:swissprot) Y978_METJA Q58388 METHANOCOCCUS JANNASCHII 2190 -11541780 173828 hypothetical protein mj0978 (db:pir2.dat) (mp:for911250-911693) B64422 B64422 Methanococcus jannaschii 2190 -11541780 7500895784 mj0978 m. jannaschii predicted coding region mj0978 (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:148) (re:591) (di:direct) U67541 U67541 g1592317 Methanococcus jannaschii 2190 -11541780 6500737922 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0978 MJ0978 Methanococcus jannaschii 2190 -11541780 247412 mju67541 (le:911250) (re:911693) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0978 gn:mj0978 le:148 re:591 di:direct nt:identified by genemark; putative) U67541 U67541 g1592317 Methanococcus jannaschii 2190 -11541780

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940134	21802	43958	453	150

Description

5000699014 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0979 MJ0979 Methanococcus jannaschii 2190 -11541781 7500895785 mj0979 (de:hypothetical protein mj0979) (db:swissprot) Y979_METJA Q58389 METHANOCOCCUS JANNASCHII 2190 -11541781 173829 hypothetical protein mj0979 (db:pir2.dat) (mp:rev912311-911718) C64422 C64422 Methanococcus jannaschii 2190 -11541781 7500895787 mj0979 m. jannaschii predicted coding region mj0979 (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:616) (re:1209) (di:complement) U67541 U67541 g1499818 Methanococcus jannaschii 2190 -11541781 6500737923 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0979 MJ0979 Methanococcus jannaschii 2190 -11541781 247413 mju67541 (le:911718) (re:912311) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0979 gn:mj0979 le:616 re:1209 di:complement nt:identified by genemark; putative) U67541 U67541 g1499818 Methanococcus jannaschii 2190 -11541781

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940142	21803	43959	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940145	21804	43960	366	122

Description

5000699015 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0981 MJ0981 Methanococcus jannaschii 2190 -11541782 7500895788 mj0981 (de:hypothetical protein mj0981) (db:swissprot) Y981_METJA Q58390 METHANOCOCCUS JANNASCHII 2190 -11541782 173830 hypothetical protein mj0981 (db:pir2.dat) (mp:rev914254-913640) E64422 E64422 Methanococcus jannaschii 2190 -11541782 7500895790 mj0981 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 28.18;) (le:2538) (re:3152) (di:complement) U67541 U67541 g1591643 Methanococcus jannaschii 2190 -11541782 6500737924 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0981 MJ0981 Methanococcus jannaschii 2190 -11541782 247415 mju67541 (le:913640) (re:914254) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0981 gn:mj0981 le:2538 re:3152 di:complement nt:identified by genemark; putative) U67541 U67541 g1591643 Methanococcus jannaschii 2190 -11541782

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940171	21805	43961	219	72

Description

5000699017 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0986 MJ0986 Methanococcus jannaschii 2190 -11541783 173831 hypothetical protein mj0986 (db:pir2.dat) (mp:rev917602-917372) B64423 B64423 Methanococcus jannaschii 2190 -11541783 247420 mj0986 m. jannaschii predicted coding region mj0986 (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6270) (re:6500) (di:complement) U67541 U67541 g1591648 Methanococcus jannaschii 2190 -11541783 6500737925 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0986 MJ0986 Methanococcus jannaschii 2190 -11541783

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940185	21806	43962	363	120

Description

5000699437 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0987 MJ0987 Methanococcus jannaschii 2190 -11541784 7500895793 mj0987 (de:hypothetical protein mj0987) (db:swissprot) Y987_METJA Q58394 METHANOCOCCUS JANNASCHII 2190 -11541784 173832 conserved hypothetical protein mj0987 (cl:archaeoglobus fulgidus probable erpk protein) (db:pir2.dat) (mp:for917902-918252) C64423 C64423 Methanococcus jannaschii 2190 -11541784 7500895795 mj0987 erpk protein isolog (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:similar to gp:1663633 percent ident: 30.56;) (le:6800) (re:7150) (di:direct) U67541 U67541 g1591649 Methanococcus jannaschii 2190 -11541784 6500737926 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0987 MJ0987 Methanococcus jannaschii 2190 -11541784 247421 mju67541 (le:917902) (re:918252) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0987 gn:mj0987 le:6800 re:7150 di:direct nt:identified by genemark; putative) U67541 U67541 g1591649 Methanococcus jannaschii 2190 -11541784

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940186	21807	43963	435	145

Description

5000699018 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0988 MJ0988 Methanococcus jannaschii 2190 -11541785 7500895796 mj0988 (de:hypothetical protein mj0988) (db:swissprot) Y988_METJA Q58395 METHANOCOCCUS JANNASCHII 2190 -11541785 173833 hypothetical protein mj0988 (db:pir2.dat) (mp:for918363-919352) D64423 D64423 Methanococcus jannaschii 2190 -11541785 7500895798 mj0988 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:similar to gb:d26185 sp:p37487 pid:467340) (le:7261) (re:8250) (di:direct) U67541 U67541 g1591650 Methanococcus jannaschii 2190 -11541785 6500737927 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0988 MJ0988 Methanococcus jannaschii 2190 -11541785 247422 mju67541 (le:918363) (re:919352) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0988 gn:mj0988 le:7261 re:8250 di:direct nt:identified by genemark; putative) U67541 U67541 g1591650 Methanococcus jannaschii 2190 -11541785

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940187	21808	43964	441	147

Description

5000699019 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0989 MJ0989 Methanococcus jannaschii 2190 -11541786 173254 ychn protein homolog mj0989 (cl:escherichia coli ychn protein) (db:pir2.dat) (mp:rev919693-919349) E64423 E64423 Methanococcus jannaschii 2190 -11541786 247423 mj0989 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:similar to sp:p39164 gb:u00096 pid:1787471 percent) (le:8247) (re:8591) (di:complement) U67541 U67541 g1591651 Methanococcus jannaschii 2190 -11541786 6500737928 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0989 MJ0989 Methanococcus jannaschii 2190 -11541786

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940189	21809	43965	327	108

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940195	21810	43966	348	116

Description

5000699020 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0990 MJ0990 Methanococcus jannaschii 2190 -11541787 5500686456 mj0990 (de:hypothetical protein mj0990) (db:swissprot) Y990_METJA Q58397 METHANOCOCCUS JANNASCHII 2190 -11541787 173255 hypothetical protein homolog mj0990 (cl:conserved hypothetical protein hi0721) (db:pir2.dat) (mp:rev919929-919702) F64423 F64423 Methanococcus jannaschii 2190 -11541787 247424 mj0990 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:similar to gb:l13279 sp:p31065 pid:290415 gb:u00096) (le:8600) (re:8827) (di:complement) U67541 U67541 g1591652 Methanococcus jannaschii 2190 -11541787 6500737929 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0990 MJ0990 Methanococcus jannaschii 2190 -11541787

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940211	21811	43967	399	132

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940251	21812	43968	522	174

Description

5000699021 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0991 MJ0991 Methanococcus jannaschii 2190 -11541788 7500895799 mj0991 (de:hypothetical protein mj0991) (db:swissprot) Y991_METJA Q58398 METHANOCOCCUS JANNASCHII 2190 -11541788 173834 hypothetical protein mj0991 (db:pir2.dat) (mp:for920179-920613) G64423 G64423 Methanococcus jannaschii 2190 -11541788 7500895801 mj0991 m. jannaschii predicted coding region mj0991 (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9077) (re:9511) (di:direct) U67541 U67541 g1591653 Methanococcus jannaschii 2190 -11541788 6500737930 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0991 MJ0991 Methanococcus jannaschii 2190 -11541788 247425 mju67541 (le:920179) (re:920613) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0991 gn:mj0991 le:9077 re:9511 di:direct nt:identified by genemark; putative) U67541 U67541 g1591653 Methanococcus jannaschii 2190 -11541788

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940256	21813	43969	285	94

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940263	21814	43970	636	211

Description

5000699022 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0992 MJ0992 Methanococcus jannaschii 2190 -11541789 4000708422 mj0992 (de:hypothetical protein mj0992) (db:swissprot) Y992_METJA Q58399 METHANOCOCCUS JANNASCHII 2190 -11541789 173835 hypothetical protein mj0992 (db:pir2.dat) (mp:for920614-921147) H64423 H64423 Methanococcus jannaschii 2190 -11541789 247426 mj0992 m. jannaschii predicted coding region mj0992 (db:genpept-bct1) (de:methanococcus jannaschii section 83 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9512) (re:10045) (di:direct) U67541 U67541 g1591654 Methanococcus jannaschii 2190 -11541789 6500737931 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0992 MJ0992 Methanococcus jannaschii 2190 -11541789

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940264	21815	43971	189	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940274	21816	43972	258	85

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940283	21817	43973	225	74

Description

GTC ORF with score 177 to: (db:genpept-pln2) (de:emericella nidulans sterigmatocystin biosynthetic gene cluster:(stca), (stcb), (stcc), (stce), (aflr), (stcf), (stci), (stcj),(stck), (stcl), (stco), (stcq), (stcs), (stct), (stcu), (stcv) and(stcw) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940305	21818	43974	489	162

Description

5000699438 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0995 MJ0995 Methanococcus jannaschii 2190 -11541790 7500895802 mj0995 (de:hypothetical protein mj0995) (db:swissprot) Y995_METJA Q58402 METHANOCOCCUS JANNASCHII 2190 -11541790 173836 hypothetical protein mj0995 (db:pir2.dat) (mp:rev924318-923635) C64424 C64424 Methanococcus jannaschii 2190 -11541790 7500895804 mj0995 varl protein isolog (db:genpept-bct1) (de:methanococcus jannaschii section 84 of 150 of the complete genome.) (nt:similar to gp:343962 percent ident: 26.19;) (le:2169) (re:2852) (di:complement) U67542 U67542 g1499835 Methanococcus jannaschii 2190 -11541790 6500737932 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0995 MJ0995 Methanococcus jannaschii 2190 -11541790 247429 mju67542 (le:923635) (re:924318) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0995 gn:mj0995 le:2169 re:2852 di:complement nt:identified by genemark; putative) U67542 U67542 g1499835 Methanococcus jannaschii 2190 -11541790

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940308	21819	43975	672	224

Description

6500737933 conserved hypothetical protein:zn protease (gtcfc:14.1) (ec:3.4.24.-) (keggfc:14.1) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0996 MJ0996 Methanococcus jannaschii 2190 -11541791 7500895806 mj0996 (de:hypothetical protein mj0996) (db:swissprot) Y996_METJA Q58403 METHANOCOCCUS JANNASCHII 2190 -11541791 174621 zinc metalloproteinase:homolog (cl:probable zinc metalloproteinase mj0996) (ec:3.4.24.-) (db:pir2.dat) (mp:for924376-925731) D64424 D64424 Methanococcus jannaschii 2190 -11541791 247430 mju67542 (le:924376) (re:925731) (di:direct) (de:or:methanococcus jannaschii pn:zn protease gn:mj0996 le:2910 re:4265 di:direct nt:similar to pid:1221801 percent identity: 33.9;) U67542 U67542 g1499836 Methanococcus jannaschii 2190 -11541791 5000698168 (de:(mj0996) (pn:zn protease) (gtcfc:10.11) (ec:) (keggfc:11.2) (tigrfc:12.3) (db:gtc-methanococcus jannaschii)) MJ0996 MJ0996 Methanococcus jannaschii 2190 10092516

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940315	21820	43976	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940316	21821	43977	279	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940320	21822	43978	414	137

Description

5000699023 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0998 MJ0998 Methanococcus jannaschii 2190 -11541792 7500895813 mj0998 (de:hypothetical protein mj0998) (db:swissprot) Y998_METJA Q58404 METHANOCOCCUS JANNASCHII 2190 -11541792 173837 hypothetical protein mj0998 (db:pir2.dat) (mp:rev926736-926011) E64424 E64424 Methanococcus jannaschii 2190 -11541792 7500895815 mj0998 m. jannaschii predicted coding region mj0998 (db:genpept-bct1) (de:methanococcus jannaschii section 84 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4545) (re:5270) (di:complement) U67542 U67542 g1591658 Methanococcus jannaschii 2190 -11541792 6500737934 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ0998 MJ0998 Methanococcus jannaschii 2190 -11541792 247431 mju67542 (le:926011) (re:926736) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj0998 gn:mj0998 le:4545 re:5270 di:complement nt:identified by genemark; putative) U67542 U67542 g1591658 Methanococcus jannaschii 2190 -11541792

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940321	21823	43979	282	93

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940323	21824	43980	291	96

Description

5000699024 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1002 MJ1002 Methanococcus jannaschii 2190 -11541793 7500895817 mj1002 (de:hypothetical protein mj1002) (db:swissprot) YA02_METJA Q58408 METHANOCOCCUS JANNASCHII 2190 -11541793 173838 hypothetical protein mj1002 (db:pir2.dat) (mp:for930967-931896) A64425 A64425 Methanococcus jannaschii 2190 -11541793 7500895819 mj1002 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 84 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 39.52;) (le:9501) (re:10430) (di:direct) U67542 U67542 g1591662 Methanococcus jannaschii 2190 -11541793 6500737935 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1002 MJ1002 Methanococcus jannaschii 2190 -11541793 247435 mju67542 (le:930967) (re:931896) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1002 gn:mj1002 le:9501 re:10430 di:direct nt:identified by genemark; putative) U67542 U67542 g1591662 Methanococcus jannaschii 2190 -11541793

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940324	21825	43981	345	114

Description

5000699025 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1004 MJ1004 Methanococcus jannaschii 2190 -11541794 5500686458 mj1004 (de:hypothetical protein mj1004) (db:swissprot) YA04_METJA Q58410 METHANOCOCCUS JANNASCHII 2190 -11541794 173839 conserved hypothetical protein mj1004 (cl:methanococcus jannaschii conserved hypothetical protein mj1004) (db:pir2.dat) (mp:for933351-933995) C64425 C64425 Methanococcus jannaschii 2190 -11541794 247437 mj1004 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 48.11;) (le:1429) (re:2073) (di:direct) U67543 U67543 g1499844 Methanococcus jannaschii 2190 -11541794 6500737936 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1004 MJ1004 Methanococcus jannaschii 2190 -11541794

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940334	21826	43982	558	186

Description

5000699026 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1005 MJ1005 Methanococcus jannaschii 2190 -11541795 173840 hypothetical protein mj1005 (db:pir2.dat) (mp:for933996-934391) D64425 D64425 Methanococcus jannaschii 2190 -11541795 247438 mj1005 m. jannaschii predicted coding region mj1005 (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2074) (re:2469) (di:direct) U67543 U67543 g1499845 Methanococcus jannaschii 2190 -11541795 6500737937 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1005 MJ1005 Methanococcus jannaschii 2190 -11541795

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940338	21827	43983	630	209

Description

5000699027 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1006 MJ1006 Methanococcus jannaschii 2190 -11541796 118940 mj1006 (de:hypothetical atp-binding protein mj1006) (db:swissprot) YA06_METJA Q58412 METHANOCOCCUS JANNASCHII 2190 -11541796 173841 hypothetical protein mj1006 (db:pir2.dat) (mp:for934363-935442) E64425 E64425 Methanococcus jannaschii 2190 -11541796 247439 mj1006 m. jannaschii predicted coding region mj1006 (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2441) (re:3520) (di:direct) U67543 U67543 g1591665 Methanococcus jannaschii 2190 -11541796 6500737938 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1006 MJ1006 Methanococcus jannaschii 2190 -11541796

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940346	21828	43984	876	291

Description

5000699028 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1010 MJ1010 Methanococcus jannaschii 2190 -11541797 118941 mj1010 (de:hypothetical atp-binding protein mj1010) (db:swissprot) YA10_METJA Q58416 METHANOCOCCUS JANNASCHII 2190 -11541797 173842 hypothetical protein mj1010 (db:pir2.dat) (mp:rev941090-939957) A64426 A64426 Methanococcus jannaschii 2190 -11541797 247443 mj1010 m. jannaschii predicted coding region mj1010 (db:genpept-bct1) (de:methanococcus jannaschii section 85 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8035) (re:9168) (di:complement) U67543 U67543 g1591669 Methanococcus jannaschii 2190 -11541797 6500737939 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1010 MJ1010 Methanococcus jannaschii 2190 -11541797

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940348	21829	43985	306	101

Description

5000699029 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1016 MJ1016 Methanococcus jannaschii 2190 -11541798 173844 hypothetical protein mj1016 (db:pir2.dat) (mp:for946062-946946) G64426 G64426 Methanococcus jannaschii 2190 -11541798 247449 mj1016 m. jannaschii predicted coding region mj1016 (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4192) (re:5076) (di:direct) U67544 U67544 g1499857 Methanococcus jannaschii 2190 -11541798 6500737940 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1016 MJ1016 Methanococcus jannaschii 2190 -11541798

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940350	21830	43986	759	252

Description

5000699030 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1017 MJ1017 Methanococcus jannaschii 2190 -11541799 4000708424 mj1017 (de:hypothetical protein mj1017) (db:swissprot) YA17_METJA Q58423 METHANOCOCCUS JANNASCHII 2190 -11541799 173845 hypothetical protein mj1017 (db:pir2.dat) (mp:for946936-947547) H64426 H64426 Methanococcus jannaschii 2190 -11541799 247450 mj1017 m. jannaschii predicted coding region mj1017 (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5066) (re:5677) (di:direct) U67544 U67544 g1499858 Methanococcus jannaschii 2190 -11541799 6500737941 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1017 MJ1017 Methanococcus jannaschii 2190 -11541799

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940353	21831	43987	543	181

Description

5000699031 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1020 MJ1020 Methanococcus jannaschii 2190 -11541800 7500895832 mj1020 (de:hypothetical protein mj1020) (db:swissprot) YA20_METJA Q58426 METHANOCOCCUS JANNASCHII 2190 -11541800 173846 hypothetical protein mj1020 (db:pir2.dat) (mp:for950420-951199) C64427 C64427 Methanococcus jannaschii 2190 -11541800 7500895834 mj1020 m. jannaschii predicted coding region mj1020 (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8550) (re:9329) (di:direct) U67544 U67544 g1591678 Methanococcus jannaschii 2190 -11541800 6500737942 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1020 MJ1020 Methanococcus jannaschii 2190 -11541800 247453 mju67544 (le:950420) (re:951199) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1020 gn:mj1020 le:8550 re:9329 di:direct nt:identified by genemark; putative) U67544 U67544 g1591678 Methanococcus jannaschii 2190 -11541800

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940359	21832	43988	534	177

Description

5000699032 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1021 MJ1021 Methanococcus jannaschii 2190 -11541801 7500895835 mj1021 (de:hypothetical protein mj1021) (db:swissprot) YA21_METJA Q58427 METHANOCOCCUS JANNASCHII 2190 -11541801 173847 hypothetical protein mj1021 (db:pir2.dat) (mp:rev951734-951243) D64427 D64427 Methanococcus jannaschii 2190 -11541801 7500895837 mj1021 m. jannaschii predicted coding region mj1021 (db:genpept-bct1) (de:methanococcus jannaschii section 86 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9373) (re:9864) (di:complement) U67544 U67544 g1591679 Methanococcus jannaschii 2190 -11541801 6500737943 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1021 MJ1021 Methanococcus jannaschii 2190 -11541801 247454 mju67544 (le:951243) (re:951734) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1021 gn:mj1021 le:9373 re:9864 di:complement nt:identified by genemark; putative) U67544 U67544 g1591679 Methanococcus jannaschii 2190 -11541801

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940361	21833	43989	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940364	21834	43990	510	169

Description

5000699033 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1022 MJ1022 Methanococcus jannaschii 2190 -11541802 7500895838 mj1022 (de:hypothetical protein mj1022) (db:swissprot) YA22_METJA Q58428 METHANOCOCCUS JANNASCHII 2190 -11541802 173848 hypothetical protein mj1022 (db:pir2.dat) (mp:rev953676-951967) E64427 E64427 Methanococcus jannaschii 2190 -11541802 7500895840 mj1022 alignment in (db:genpept-bct1) (de:methanococcus jannaschii section 87 of 150 of the complete genome.) (nt:similar to percent ident: 0.00; identified by) (le:142) (re:1851) (di:complement) U67545 U67545 g1499864 Methanococcus jannaschii 2190 -11541802 6500737944 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1022 MJ1022 Methanococcus jannaschii 2190 -11541802 247455 mju67545 (le:951967) (re:953676) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1022 gn:mj1022 le:142 re:1851 di:complement nt:identified by genemark; putative) U67545 U67545 g1499864 Methanococcus jannaschii 2190 -11541802

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940368	21835	43991	426	141

Description

5000699034 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1024 MJ1024 Methanococcus jannaschii 2190 -11541803 7500895844 mj1024 (de:hypothetical protein mj1024) (db:swissprot) YA24_METJA Q58430 METHANOCOCCUS JANNASCHII 2190 -11541803 173849 hypothetical protein mj1024 (db:pir2.dat) (mp:for954538-955749) G64427 G64427 Methanococcus jannaschii 2190 -11541803 7500895846 mj1024 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 87 of 150 of the complete genome.) (nt:similar to gp:2226130 percent ident: 25.53;) (le:2713) (re:3924) (di:direct) U67545 U67545 g1499866 Methanococcus jannaschii 2190 -11541803 6500737945 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1024 MJ1024 Methanococcus jannaschii 2190 -11541803 247457 mju67545 (le:954538) (re:955749) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1024 gn:mj1024 le:2713 re:3924 di:direct nt:identified by genemark; putative) U67545 U67545 g1499866 Methanococcus jannaschii 2190 -11541803

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940369	21836	43992	366	121

Description

5000699035 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1025 MJ1025 Methanococcus jannaschii 2190 -11541804 7500895847 mj1025 (de:hypothetical protein mj1025) (db:swissprot) YA25_METJA Q58431 METHANOCOCCUS JANNASCHII 2190 -11541804 173850 hypothetical protein mj1025 (cl:hypothetical protein mj1025) (db:pir2.dat) (mp:rev956916-955750) H64427 H64427 Methanococcus jannaschii 2190 -11541804 7500895849 mj1025 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 87 of 150 of the complete genome.) (nt:similar to sp:p42626 pid:606049 gb:u00096) (le:3925) (re:5091) (di:complement) U67545 U67545 g1591681 Methanococcus jannaschii 2190 -11541804 6500737946 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1025 MJ1025 Methanococcus jannaschii 2190 -11541804 247458 mju67545 (le:955750) (re:956916) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1025 gn:mj1025 le:3925 re:5091 di:complement nt:identified by genemark; putative) U67545 U67545 g1591681 Methanococcus jannaschii 2190 -11541804

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940370	21837	43993	285	95

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940377	21838	43994	330	109

Description

5000699037 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1030 MJ1030 Methanococcus jannaschii 2190 -11541805 173852 hypothetical protein mj1030 (cl:conserved hypothetical protein mj1030) (db:pir2.dat) (mp:for962494-962937) E64428 E64428 Methanococcus jannaschii 2190 -11541805 247463 mj1030 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 87 of 150 of the complete genome.) (nt:similar to sp:p53332 pid:1323505 percent identity:) (le:10669) (re:11112) (di:direct) U67545 U67545 g1591685 Methanococcus jannaschii 2190 -11541805 6500737947 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1030 MJ1030 Methanococcus jannaschii 2190 -11541805

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940387	21839	43995	450	150

Description

5000699038 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1031 MJ1031 Methanococcus jannaschii 2190 -11541806 7500895851 mj1031 (de:hypothetical protein mj1031) (db:swissprot) YA31_METJA Q58437 METHANOCOCCUS JANNASCHII 2190 -11541806 174620 ywkb homolog (cl:methanobacterium thermoautotrophicum conserved hypothetical protein mth1382) (db:pir2.dat) (mp:for962934-963860) F64428 F64428 Methanococcus jannaschii 2190 -11541806 7500895853 mj1031 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 87 of 150 of the complete genome.) (nt:similar to gp:1788715 percent ident: 21.48;) (le:11109) (re:12035) (di:direct) U67545 U67545 g1591686 Methanococcus jannaschii 2190 -11541806 6500737948 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1031 MJ1031 Methanococcus jannaschii 2190 -11541806 247464 mju67545 (le:962934) (re:963860) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein p45869 gn:mj1031 le:11109 re:12035 di:direct nt:similar to p45869 percent identity: 26.7;) U67545 U67545 g1591686 Methanococcus jannaschii 2190 -11541806

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940390	21840	43996	270	89

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940391	21841	43997	192	63

Description

5000699039 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1032 MJ1032 Methanococcus jannaschii 2190 -11541807 7500895854 mj1032 (de:hypothetical protein mj1032) (db:swissprot) YA32_METJA Q58438 METHANOCOCCUS JANNASCHII 2190 -11541807 173853 hypothetical protein mj1032 (db:pir2.dat) (mp:for963987-965087) G64428 G64428 Methanococcus jannaschii 2190 -11541807 7500895856 mj1032 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 88 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 34.62;) (le:89) (re:1189) (di:direct) U67546 U67546 g1499875 Methanococcus jannaschii 2190 -11541807 6500737949 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1032 MJ1032 Methanococcus jannaschii 2190 -11541807 247465 mju67546 (le:963987) (re:965087) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1032 gn:mj1032 le:89 re:1189 di:direct nt:identified by genemark; putative) U67546 U67546 g1499875 Methanococcus jannaschii 2190 -11541807

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940394	21842	43998	603	200

Description

5000699040 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1036 MJ1036 Methanococcus jannaschii 2190 -11541808 7500895857 mj1036 (de:hypothetical protein mj1036) (db:swissprot) YA36_METJA Q58442 METHANOCOCCUS JANNASCHII 2190 -11541808 173855 hypothetical protein mj1036 (db:pir2.dat) (mp:for967580-968281) C64429 C64429 Methanococcus jannaschii 2190 -11541808 7500895859 mj1036 m. jannaschii predicted coding region mj1036 (db:genpept-bct1) (de:methanococcus jannaschii section 88 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3682) (re:4383) (di:direct) U67546 U67546 g1591689 Methanococcus jannaschii 2190 -11541808 6500737950 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1036 MJ1036 Methanococcus jannaschii 2190 -11541808 247469 mju67546 (le:967580) (re:968281) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1036 gn:mj1036 le:3682 re:4383 di:direct nt:identified by genemark; putative) U67546 U67546 g1591689 Methanococcus jannaschii 2190 -11541808

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940396	21843	43999	726	241

Description

5000699041 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1049 MJ1049 Methanococcus jannaschii 2190 -11541809 7500895865 mj1049 (de:hypothetical protein mj1049) (db:swissprot) YA49_METJA Q58449 METHANOCOCCUS JANNASCHII 2190 -11541809 173856 hypothetical protein mj1049 (db:pir2.dat) (mp:for986887-987372) H64430 H64430 Methanococcus jannaschii 2190 -11541809 7500895867 mj1049 m. jannaschii predicted coding region mj1049 (db:genpept-bct1) (de:methanococcus jannaschii section 90 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:669) (re:1154) (di:direct) U67548 U67548 g1499894 Methanococcus jannaschii 2190 -11541809 6500737951 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1049 MJ1049 Methanococcus jannaschii 2190 -11541809 247482 mju67548 (le:986887) (re:987372) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1049 gn:mj1049 le:669 re:1154 di:direct nt:identified by genemark; putative) U67548 U67548 g1499894 Methanococcus jannaschii 2190 -11541809

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940397	21844	44000	513	170

Description

5000699042 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1050 MJ1050 Methanococcus jannaschii 2190 -11541810 7500895868 mj1050 (de:hypothetical protein mj1050) (db:swissprot) YA50_METJA Q58450 METHANOCOCCUS JANNASCHII 2190 -11541810 173857 hypothetical protein mj1050 (cl:conserved hypothetical protein mj1050) (db:pir2.dat) (mp:for987440-987973) A64431 A64431 Methanococcus jannaschii 2190 -11541810 7500895870 mj1050 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 90 of 150 of the complete genome.) (nt:similar to pid:1061273 pid:1431264 percent) (le:1222) (re:1755) (di:direct) U67548 U67548 g1499895 Methanococcus jannaschii 2190 -11541810 6500737952 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1050 MJ1050 Methanococcus jannaschii 2190 -11541810 247483 mju67548 (le:987440) (re:987973) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1050 gn:mj1050 le:1222 re:1755 di:direct nt:identified by genemark; putative) U67548 U67548 g1499895 Methanococcus jannaschii 2190 -11541810

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940398	21845	44001	189	62

Description

5000699043 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1052 MJ1052 Methanococcus jannaschii 2190 -11541811 7500895876 mj1052 (de:hypothetical protein mj1052) (db:swissprot) YA52_METJA Q58452 METHANOCOCCUS JANNASCHII 2190 -11541811 173858 conserved hypothetical protein mj1052 (cl:methanococcus jannaschii conserved hypothetical protein mj1052) (db:pir2.dat) (mp:rev989804-989502) C64431 C64431 Methanococcus jannaschii 2190 -11541811 7500895878 mj1052 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 90 of 150 of the complete genome.) (nt:similar to pid:1226043 percent ident: 30.85;) (le:3284) (re:3586) (di:complement) U67548 U67548 g1591705 Methanococcus jannaschii 2190 -11541811 6500737953 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1052 MJ1052 Methanococcus jannaschii 2190 -11541811 247485 mju67548 (le:989502) (re:989804) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1052 gn:mj1052 le:3284 re:3586 di:complement nt:identified by genemark; putative) U67548 U67548 g1591705 Methanococcus jannaschii 2190 -11541811

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940401	21846	44002	840	279

Description

5000699044 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1053 MJ1053 Methanococcus jannaschii 2190 -11541812 7500895880 mj1053 (de:hypothetical protein mj1053) (db:swissprot) YA53_METJA Q58453 METHANOCOCCUS JANNASCHII 2190 -11541812 173859 hypothetical protein mj1053 (db:pir2.dat) (mp:rev990351-989860) D64431 D64431 Methanococcus jannaschii 2190 -11541812 7500895882 mj1053 m. jannaschii predicted coding region mj1053 (db:genpept-bct1) (de:methanococcus jannaschii section 90 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3642) (re:4133) (di:complement) U67548 U67548 g1499898 Methanococcus jannaschii 2190 -11541812 6500737954 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1053 MJ1053 Methanococcus jannaschii 2190 -11541812 247486 mju67548 (le:989860) (re:990351) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1053 gn:mj1053 le:3642 re:4133 di:complement nt:identified by genemark; putative) U67548 U67548 g1499898 Methanococcus jannaschii 2190 -11541812

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940403	21847	44003	387	129

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940408	21848	44004	771	257

Description

5000699045 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1060 MJ1060 Methanococcus jannaschii 2190 -11541813 173860 hypothetical protein mj1060 (db:pir2.dat) (mp:for1000459-1002072) C64432 C64432 Methanococcus jannaschii 2190 -11541813 247493 mj1060 m. jannaschii predicted coding region mj1060 (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4130) (re:5743) (di:direct) U67549 U67549 g1499906 Methanococcus jannaschii 2190 -11541813 6500737955 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1060 MJ1060 Methanococcus jannaschii 2190 -11541813

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940409	21849	44005	228	75

Description

5000699046 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1067 MJ1067 Methanococcus jannaschii 2190 -11541814 173861 hypothetical protein mj1067 (db:pir2.dat) (mp:for1008240-1008686) C64433 C64433 Methanococcus jannaschii 2190 -11541814 6500737956 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1067 MJ1067 Methanococcus jannaschii 2190 -11541814 247501 mju67549 (le:1008240) (re:1008686) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1067 gn:mj1067 le:11911 re:12357 di:direct nt:identified by genemark; putative) U67549 U67549 g1591719 Methanococcus jannaschii 2190 -11541814

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940410	21850	44006	234	77

Description

5000699440 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1069 MJ1069 Methanococcus jannaschii 2190 -11541815 173862 hypothetical protein mj1069 (db:pir2.dat) (mp:rev1010807-1009629) D64433 D64433 Methanococcus jannaschii 2190 -11541815 247502 mj1069 galactosyltransferase isolog (db:genpept-bct1) (de:methanococcus jannaschii section 91 of 150 of the complete genome.) (nt:similar to gp:1486283 percent identity: 26.38;) (le:13300) (re:14478) (di:complement) U67549 U67549 g1591721 Methanococcus jannaschii 2190 -11541815 6500737957 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1069 MJ1069 Methanococcus jannaschii 2190 -11541815

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940411	21851	44007	264	87

Description

5000699047 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1070 MJ1070 Methanococcus jannaschii 2190 -11541816 7500895912 mj1070 (de:hypothetical protein mj1070 precursor) (db:swissprot) YA70_METJA Q58470 METHANOCOCCUS JANNASCHII 2190 -11541816 173863 hypothetical protein mj1070 (db:pir2.dat) (mp:rev1011401-1010928) E64433 E64433 Methanococcus jannaschii 2190 -11541816 7500895914 mj1070 m. jannaschii predicted coding region mj1070 (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:86) (re:559) (di:complement) U67550 U67550 g1499917 Methanococcus jannaschii 2190 -11541816 6500737958 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1070 MJ1070 Methanococcus jannaschii 2190 -11541816 247503 mju67550 (le:1010928) (re:1011401) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1070 gn:mj1070 le:86 re:559 di:complement nt:identified by genemark; putative) U67550 U67550 g1499917 Methanococcus jannaschii 2190 -11541816

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940413	21852	44008	708	235

Description

5000699048 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1071 MJ1071 Methanococcus jannaschii 2190 -11541817 7500895915 mj1071 (de:hypothetical protein mj1071) (db:swissprot) YA71_METJA Q58471 METHANOCOCCUS JANNASCHII 2190 -11541817 173864 hypothetical protein mj1071 (db:pir2.dat) (mp:rev1012339-1011398) F64433 F64433 Methanococcus jannaschii 2190 -11541817 7500895917 mj1071 m. jannaschii predicted coding region mj1071 (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:556) (re:1497) (di:complement) U67550 U67550 g1499918 Methanococcus jannaschii 2190 -11541817 6500737959 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1071 MJ1071 Methanococcus jannaschii 2190 -11541817 247504 mju67550 (le:1011398) (re:1012339) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1071 gn:mj1071 le:556 re:1497 di:complement nt:identified by genemark; putative) U67550 U67550 g1499918 Methanococcus jannaschii 2190 -11541817

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940414	21853	44009	216	71

Description

5000699049 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1072 MJ1072 Methanococcus jannaschii 2190 -11541818 118857 mj1072 (de:hypothetical protein mj1072) (db:swissprot) YA72_METJA Q58472 METHANOCOCCUS JANNASCHII 2190 -11541818 173865 hypothetical protein mj1072 (cl:conserved hypothetical protein mj1074) (db:pir2.dat) (mp:rev1012711-1012361) G64433 G64433 Methanococcus jannaschii 2190 -11541818 247505 mj1072 m. jannaschii predicted coding region mj1072 (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1519) (re:1869) (di:complement) U67550 U67550 g1499919 Methanococcus jannaschii 2190 -11541818 6500737960 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1072 MJ1072 Methanococcus jannaschii 2190 -11541818

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940415	21854	44010	261	86

Description

5000699050 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1073 MJ1073 Methanococcus jannaschii 2190 -11541819 173866 hypothetical protein mj1073 (db:pir2.dat) (mp:rev1013690-1012878) H64433 H64433 Methanococcus jannaschii 2190 -11541819 247506 mj1073 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:similar to sp:p40160 pid:1302211 pid:600058 percent) (le:2036) (re:2848) (di:complement) U67550 U67550 g1499920 Methanococcus jannaschii 2190 -11541819 6500737961 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1073 MJ1073 Methanococcus jannaschii 2190 -11541819

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940417	21855	44011	903	301

Description

GTC ORF with score 467 to: (fn:required for axial budding pattern of s.) (sr:baker's yeast) (db:genpept-pln1) (de:saccharomyces cerevisiae tcp1-beta gene, partial cds, and axl2p(axl2) and rev7p (rev7) genes, complete cds.) (nt:plasma membrane ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940419	21856	44012	909	303

Description

5000699051 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1074 MJ1074 Methanococcus jannaschii 2190 -11541820 118858 mj1074 (de:hypothetical protein mj1074) (db:swissprot) YA74_METJA Q58474 METHANOCOCCUS JANNASCHII 2190 -11541820 173867 hypothetical protein mj1074 (cl:conserved hypothetical protein mj1074) (db:pir2.dat) (mp:rev1014137-1013799) A64434 A64434 Methanococcus jannaschii 2190 -11541820 247507 mj1074 m. jannaschii predicted coding region mj1074 (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2957) (re:3295) (di:complement) U67550 U67550 g1499921 Methanococcus jannaschii 2190 -11541820 6500737962 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1074 MJ1074 Methanococcus jannaschii 2190 -11541820

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940423	21857	44013	291	96

Description

5000699052 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1076 MJ1076 Methanococcus jannaschii 2190 -11541821 118942 mj1076 (de:hypothetical atp-binding protein mj1076) (db:swissprot) YA76_METJA Q58476 METHANOCOCCUS JANNASCHII 2190 -11541821 173868 hypothetical protein mj1076 (db:pir2.dat) (mp:rev1016648-1015635) C64434 C64434 Methanococcus jannaschii 2190 -11541821 247509 mj1076 m. jannaschii predicted coding region mj1076 (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4793) (re:5806) (di:complement) U67550 U67550 g1591724 Methanococcus jannaschii 2190 -11541821 6500737963 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1076 MJ1076 Methanococcus jannaschii 2190 -11541821

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940424	21858	44014	489	162

Description

5000699053 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1078 MJ1078 Methanococcus jannaschii 2190 -11541822 173869 hypothetical protein mj1078 (db:pir2.dat) (mp:rev1019041-1018337) E64434 E64434 Methanococcus jannaschii 2190 -11541822 247511 mj1078 m. jannaschii predicted coding region mj1078 (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7495) (re:8199) (di:complement) U67550 U67550 g1591726 Methanococcus jannaschii 2190 -11541822 6500737964 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1078 MJ1078 Methanococcus jannaschii 2190 -11541822

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940425	21859	44015	186	61

Description

5000699054 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1079 MJ1079 Methanococcus jannaschii 2190 -11541823 173870 hypothetical protein mj1079 (db:pir2.dat) (mp:rev1020508-1019315) F64434 F64434 Methanococcus jannaschii 2190 -11541823 247512 mj1079 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 92 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 30.75;) (le:8473) (re:9666) (di:complement) U67550 U67550 g1591727 Methanococcus jannaschii 2190 -11541823 6500737965 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1079 MJ1079 Methanococcus jannaschii 2190 -11541823

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940426	21860	44016	195	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940429	21861	44017	624	207

Description

5000699055 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1080 MJ1080 Methanococcus jannaschii 2190 -11541824 7500895921 mj1080 (de:hypothetical protein mj1080) (db:swissprot) YA80_METJA Q58480 METHANOCOCCUS JANNASCHII 2190 -11541824 173871 hypothetical protein mj1080 (db:pir2.dat) (mp:rev1021093-1020686) G64434 G64434 Methanococcus jannaschii 2190 -11541824 7500895923 mj1080 m. jannaschii predicted coding region mj1080 (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:114) (re:521) (di:complement) U67551 U67551 g1592319 Methanococcus jannaschii 2190 -11541824 6500737966 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1080 MJ1080 Methanococcus jannaschii 2190 -11541824 247513 mju67551 (le:1020686) (re:1021093) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1080 gn:mj1080 le:114 re:521 di:complement nt:identified by genemark; putative) U67551 U67551 g1592319 Methanococcus jannaschii 2190 -11541824

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940430	21862	44018	801	266

Description

5000699056 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1081 MJ1081 Methanococcus jannaschii 2190 -11541825 7500895924 mj1081 (de:hypothetical protein mj1081) (db:swissprot) YA81_METJA Q58481 METHANOCOCCUS JANNASCHII 2190 -11541825 173256 hypothetical protein homolog mj1081 (cl:hypothetical protein mj1081) (db:pir2.dat) (mp:for1021224-1021640) H64434 H64434 Methanococcus jannaschii 2190 -11541825 7500895926 mj1081 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:similar to sp:p32698 pid:396391 gb:u00096) (le:652) (re:1068) (di:direct) U67551 U67551 g1591729 Methanococcus jannaschii 2190 -11541825 6500737967 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1081 MJ1081 Methanococcus jannaschii 2190 -11541825 247514 mju67551 (le:1021224) (re:1021640) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein (p32698) gn:mj1081 le:652 re:1068 di:direct nt:similar to p32698 percent identity: 38.2;) U67551 U67551 g1591729 Methanococcus jannaschii 2190 -11541825

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940431	21863	44019	732	243

Description

5000699057 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1082 MJ1082 Methanococcus jannaschii 2190 -11541826 7500895927 mj1082 (de:hypothetical protein mj1082) (db:swissprot) YA82_METJA Q58482 METHANOCOCCUS JANNASCHII 2190 -11541826 173872 hypothetical protein mj1082 (cl:conserved hypothetical protein mj1082) (db:pir2.dat) (mp:for1021659-1022021) A64435 A64435 Methanococcus jannaschii 2190 -11541826 7500895929 mj1082 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 34.78;) (le:1087) (re:1449) (di:direct) U67551 U67551 g1499930 Methanococcus jannaschii 2190 -11541826 6500737968 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1082 MJ1082 Methanococcus jannaschii 2190 -11541826 247515 mju67551 (le:1021659) (re:1022021) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1082 gn:mj1082 le:1087 re:1449 di:direct nt:identified by genemark; putative) U67551 U67551 g1499930 Methanococcus jannaschii 2190 -11541826

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940439	21864	44020	234	77

Description

5000699058 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1085 MJ1085 Methanococcus jannaschii 2190 -11541827 7500895931 mj1085 (de:hypothetical protein mj1085) (db:swissprot) YA85_METJA Q58485 METHANOCOCCUS JANNASCHII 2190 -11541827 173874 hypothetical protein mj1085 (db:pir2.dat) (mp:for1023635-1025164) D64435 D64435 Methanococcus jannaschii 2190 -11541827 7500895933 mj1085 m. jannaschii predicted coding region mj1085 (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3063) (re:4592) (di:direct) U67551 U67551 g1499933 Methanococcus jannaschii 2190 -11541827 6500737969 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1085 MJ1085 Methanococcus jannaschii 2190 -11541827 247518 mju67551 (le:1023635) (re:1025164) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1085 gn:mj1085 le:3063 re:4592 di:direct nt:identified by genemark; putative) U67551 U67551 g1499933 Methanococcus jannaschii 2190 -11541827

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940443	21865	44021	222	73

Description

5000699059 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1086 MJ1086 Methanococcus jannaschii 2190 -11541828 7500895934 mj1086 (de:hypothetical protein mj1086) (db:swissprot) YA86_METJA Q58486 METHANOCOCCUS JANNASCHII 2190 -11541828 173875 hypothetical protein mj1086 (cl:hypothetical protein mj1086) (db:pir2.dat) (mp:for1025161-1026183) E64435 E64435 Methanococcus jannaschii 2190 -11541828 7500895936 mj1086 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 93 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 47.46;) (le:4589) (re:5611) (di:direct) U67551 U67551 g1499934 Methanococcus jannaschii 2190 -11541828 6500737970 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1086 MJ1086 Methanococcus jannaschii 2190 -11541828 247519 mju67551 (le:1025161) (re:1026183) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1086 gn:mj1086 le:4589 re:5611 di:direct nt:identified by genemark; putative) U67551 U67551 g1499934 Methanococcus jannaschii 2190 -11541828

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940444	21866	44022	612	204

Description

5000699060 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1094 MJ1094 Methanococcus jannaschii 2190 -11541829 173877 conserved hypothetical protein mj1094 (cl:methanococcus jannaschii conserved hypothetical protein mj1094) (db:pir2.dat) (mp:rev1033053-1031896) E64436 E64436 Methanococcus jannaschii 2190 -11541829 247527 mj1094 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 94 of 150 of the complete genome.) (nt:similar to gp:1439553 percent identity: 30.62;) (le:1107) (re:2264) (di:complement) U67552 U67552 g1499943 Methanococcus jannaschii 2190 -11541829 6500737971 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1094 MJ1094 Methanococcus jannaschii 2190 -11541829

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940447	21867	44023	819	272

Description

5000699061 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1095 MJ1095 Methanococcus jannaschii 2190 -11541830 7500895941 mj1095 (de:hypothetical protein mj1095) (db:swissprot) YA95_METJA Q58495 METHANOCOCCUS JANNASCHII 2190 -11541830 173878 hypothetical protein mj1095 (cl:conserved hypothetical protein mj1095) (db:pir2.dat) (mp:rev1034358-1033087) F64436 F64436 Methanococcus jannaschii 2190 -11541830 7500895943 mj1095 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 94 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 44.90;) (le:2298) (re:3569) (di:complement) U67552 U67552 g1591739 Methanococcus jannaschii 2190 -11541830 6500737972 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1095 MJ1095 Methanococcus jannaschii 2190 -11541830 247528 mju67552 (le:1033087) (re:1034358) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1095 gn:mj1095 le:2298 re:3569 di:complement nt:identified by genemark; putative) U67552 U67552 g1591739 Methanococcus jannaschii 2190 -11541830

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940448	21868	44024	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940451	21869	44025	228	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940452	21870	44026	729	242

Description

5000699442 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1098 MJ1098 Methanococcus jannaschii 2190 -11541831 173879 hypothetical protein mj1098 (db:pir2.dat) (mp:rev1039390-1038626) A64437 A64437 Methanococcus jannaschii 2190 -11541831 247531 mj1098 rna maturase isolog (db:genpept-bct1) (de:methanococcus jannaschii section 94 of 150 of the complete genome.) (nt:similar to pir:s51506 percent identity: 24.49;) (le:7837) (re:8601) (di:complement) U67552 U67552 g1591742 Methanococcus jannaschii 2190 -11541831 6500737973 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1098 MJ1098 Methanococcus jannaschii 2190 -11541831

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940458	21871	44027	495	165

Description

5000699062 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1099 MJ1099 Methanococcus jannaschii 2190 -11541832 7500895946 mj1099 (de:hypothetical protein mj1099) (db:swissprot) YA99_METJA Q58499 METHANOCOCCUS JANNASCHII 2190 -11541832 173880 hypothetical protein mj1099 (db:pir2.dat) (mp:rev1040325-1039618) B64437 B64437 Methanococcus jannaschii 2190 -11541832 7500895948 mj1099 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 94 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 69.53;) (le:8829) (re:9536) (di:complement) U67552 U67552 g1591743 Methanococcus jannaschii 2190 -11541832 6500737974 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1099 MJ1099 Methanococcus jannaschii 2190 -11541832 247532 mju67552 (le:1039618) (re:1040325) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1099 gn:mj1099 le:8829 re:9536 di:complement nt:identified by genemark; putative) U67552 U67552 g1591743 Methanococcus jannaschii 2190 -11541832

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940459	21872	44028	195	64

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940460	21873	44029	249	82

Description

5000699063 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1103 MJ1103 Methanococcus jannaschii 2190 -11541833 173881 hypothetical protein mj1103 (db:pir2.dat) (mp:rev1043992-1043726) F64437 F64437 Methanococcus jannaschii 2190 -11541833 247536 mj1103 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:similar to gb:u03554 percent identity: 44.19;) (le:3323) (re:3589) (di:complement) U67553 U67553 g1499953 Methanococcus jannaschii 2190 -11541833 6500737975 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1103 MJ1103 Methanococcus jannaschii 2190 -11541833

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940465	21874	44030	558	185

Description

5000699064 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1106 MJ1106 Methanococcus jannaschii 2190 -11541834 173882 hypothetical protein mj1106 (db:pir2.dat) (mp:rev1046608-1046051) A64438 A64438 Methanococcus jannaschii 2190 -11541834 247539 mj1106 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 56.49;) (le:5648) (re:6205) (di:complement) U67553 U67553 g1499956 Methanococcus jannaschii 2190 -11541834 6500737976 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1106 MJ1106 Methanococcus jannaschii 2190 -11541834

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940472	21875	44031	243	80

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940476	21876	44032	789	262

Description

5000699065 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1107 MJ1107 Methanococcus jannaschii 2190 -11541835 118859 mj1107 (de:hypothetical protein mj1107) (db:swissprot) YB07_METJA Q58507 METHANOCOCCUS JANNASCHII 2190 -11541835 173883 hypothetical protein mj1107 (db:pir2.dat) (mp:rev1047075-1046626) B64438 B64438 Methanococcus jannaschii 2190 -11541835 247540 mj1107 m. jannaschii predicted coding region mj1107 (db:genpept-bct1) (de:methanococcus jannaschii section 95 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6223) (re:6672) (di:complement) U67553 U67553 g1499957 Methanococcus jannaschii 2190 -11541835 6500737977 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1107 MJ1107 Methanococcus jannaschii 2190 -11541835

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940480	21877	44033	297	98

Description

5000699066 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1110 MJ1110 Methanococcus jannaschii 2190 -11541836 7500896311 mj1110 (de:hypothetical protein mj1110) (db:swissprot) YB10_METJA Q58510 METHANOCOCCUS JANNASCHII 2190 -11541836 173884 hypothetical protein mj1110 (db:pir2.dat) (mp:rev1052576-1051116) E64438 E64438 Methanococcus jannaschii 2190 -11541836 7500896313 mj1110 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 96 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 30.00;) (le:808) (re:2268) (di:complement) U67554 U67554 g1499961 Methanococcus jannaschii 2190 -11541836 6500737978 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1110 MJ1110 Methanococcus jannaschii 2190 -11541836 247543 mju67554 (le:1051116) (re:1052576) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1110 gn:mj1110 le:808 re:2268 di:complement nt:identified by genemark; putative) U67554 U67554 g1499961 Methanococcus jannaschii 2190 -11541836

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940481	21878	44034	573	190

Description

5000699067 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1114 MJ1114 Methanococcus jannaschii 2190 -11541837 7502853929 mj1114 (de:hypothetical protein mj1114) (db:swissprot) YB14_METJA Q58514 METHANOCOCCUS JANNASCHII 2190 -11541837 173887 hypothetical protein mj1114 (db:pir2.dat) (mp:rev1055797-1055219) A64439 A64439 Methanococcus jannaschii 2190 -11541837 247547 mj1114 m. jannaschii predicted coding region mj1114 (db:genpept-bct1) (de:methanococcus jannaschii section 96 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4910) (re:5488) (di:complement) U67554 U67554 g1499965 Methanococcus jannaschii 2190 -11541837 6500737979 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1114 MJ1114 Methanococcus jannaschii 2190 -11541837

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940484	21879	44035	318	105

Description

5000699068 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1115 MJ1115 Methanococcus jannaschii 2190 -11541838 7502853930 mj1115 (de:hypothetical protein mj1115) (db:swissprot) YB15_METJA Q58515 METHANOCOCCUS JANNASCHII 2190 -11541838 173257 hypothetical protein homolog mj1115 (cl:hypothetical protein mj1115) (db:pir2.dat) (mp:rev1056666-1055881) B64439 B64439 Methanococcus jannaschii 2190 -11541838 247548 mj1115 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 96 of 150 of the complete genome.) (nt:similar to gp:1652059 percent identity: 41.80;) (le:5572) (re:6357) (di:complement) U67554 U67554 g1591754 Methanococcus jannaschii 2190 -11541838 6500737980 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1115 MJ1115 Methanococcus jannaschii 2190 -11541838

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940485	21880	44036	222	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940491	21881	44037	381	126

Description

5000699069 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1117 MJ1117 Methanococcus jannaschii 2190 -11541839 173888 hypothetical protein mj1117 (db:pir2.dat) (mp:for1058452-1059042) D64439 D64439 Methanococcus jannaschii 2190 -11541839 247550 mj1117 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 96 of 150 of the complete genome.) (nt:similar to gp:1296941 percent identity: 40.49;) (le:8143) (re:8733) (di:direct) U67554 U67554 g1591756 Methanococcus jannaschii 2190 -11541839 6500737981 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1117 MJ1117 Methanococcus jannaschii 2190 -11541839

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940494	21882	44038	363	120

Description

5000699070 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1118 MJ1118 Methanococcus jannaschii 2190 -11541840 173889 hypothetical protein mj1118 (db:pir2.dat) (mp:for1059067-1059336) E64439 E64439 Methanococcus jannaschii 2190 -11541840 247551 mj1118 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 96 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 32.88;) (le:8758) (re:9027) (di:direct) U67554 U67554 g1591757 Methanococcus jannaschii 2190 -11541840 6500737982 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1118 MJ1118 Methanococcus jannaschii 2190 -11541840

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940495	21883	44039	492	164

Description

5000699071 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1120 MJ1120 Methanococcus jannaschii 2190 -11541841 7500896335 mj1120 (de:hypothetical protein mj1120) (db:swissprot) YB20_METJA Q58520 METHANOCOCCUS JANNASCHII 2190 -11541841 173890 hypothetical protein mj1120 (db:pir2.dat) (mp:for1060341-1061180) G64439 G64439 Methanococcus jannaschii 2190 -11541841 7500896337 mj1120 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 96 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 30.16;) (le:10032) (re:10871) (di:direct) U67554 U67554 g1591759 Methanococcus jannaschii 2190 -11541841 6500737983 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1120 MJ1120 Methanococcus jannaschii 2190 -11541841 247553 mju67554 (le:1060341) (re:1061180) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1120 gn:mj1120 le:10033 re:10872 di:direct nt:identified by genemark; putative) U67554 U67554 g1591759 Methanococcus jannaschii 2190 -11541841

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940499	21884	44040	756	252

Description

5000698361 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1121 MJ1121 Methanococcus jannaschii 2190 -11541842 7500896338 mj1121 (de:hypothetical protein mj1121) (db:swissprot) YB21_METJA Q58521 METHANOCOCCUS JANNASCHII 2190 -11541842 173891 hypothetical protein mj1121 (cl:hypothetical protein mj1121) (db:pir2.dat) (mp:rev1061534-1061250) H64439 H64439 Methanococcus jannaschii 2190 -11541842 7500896340 mj1121 virulence associated protein c vapc (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to gb:l42023 pid:1006095 pid:1221056) (le:60) (re:344) (di:complement) U67555 U67555 g1499973 Methanococcus jannaschii 2190 -11541842 6500737984 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1121 MJ1121 Methanococcus jannaschii 2190 -11541842 247554 mju67555 (le:1061250) (re:1061534) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1121 gn:mj1121 le:60 re:344 di:complement nt:identified by genemark; putative) U67555 U67555 g1499973 Methanococcus jannaschii 2190 -11541842

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940502	21885	44041	489	162

Description

5000699072 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1122 MJ1122 Methanococcus jannaschii 2190 -11541843 7500896341 mj1122 (de:hypothetical protein mj1122) (db:swissprot) YB22_METJA Q58522 METHANOCOCCUS JANNASCHII 2190 -11541843 173892 hypothetical protein mj1122 (cl:conserved hypothetical protein mj1122) (db:pir2.dat) (mp:rev1061740-1061507) A64440 A64440 Methanococcus jannaschii 2190 -11541843 7500896343 mj1122 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 61.76;) (le:317) (re:550) (di:complement) U67555 U67555 g1591761 Methanococcus jannaschii 2190 -11541843 6500737985 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1122 MJ1122 Methanococcus jannaschii 2190 -11541843 247555 mju67555 (le:1061507) (re:1061740) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1122 gn:mj1122 le:317 re:550 di:complement nt:identified by genemark; putative) U67555 U67555 g1591761 Methanococcus jannaschii 2190 -11541843

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940503	21886	44042	255	84

Description

5000699073 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1123 MJ1123 Methanococcus jannaschii 2190 -11541844 4000708426 mj1123 (de:hypothetical protein mj1123) (db:swissprot) YB23_METJA Q58523 METHANOCOCCUS JANNASCHII 2190 -11541844 173893 hypothetical protein mj1123 (cl:conserved hypothetical protein mj1123:bioc homology) (db:pir2.dat) (mp:for1061811-1062428) B64440 B64440 Methanococcus jannaschii 2190 -11541844 247556 mj1123 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to sp:q10853 pid:1403450 percent identity:) (le:621) (re:1238) (di:direct) U67555 U67555 g1499975 Methanococcus jannaschii 2190 -11541844 6500737986 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1123 MJ1123 Methanococcus jannaschii 2190 -11541844

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940506	21887	44043	462	153

Description

5000699074 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1125 MJ1125 Methanococcus jannaschii 2190 -11541845 173894 hypothetical protein mj1125 (db:pir2.dat) (mp:rev1066580-1066398) D64440 D64440 Methanococcus jannaschii 2190 -11541845 247558 mj1125 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 48.89;) (le:5208) (re:5390) (di:complement) U67555 U67555 g1499977 Methanococcus jannaschii 2190 -11541845 6500737987 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1125 MJ1125 Methanococcus jannaschii 2190 -11541845

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940507	21888	44044	288	95

Description

5000698169 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1126 MJ1126 Methanococcus jannaschii 2190 -11541846 173895 hypothetical protein mj1126 (db:pir2.dat) (mp:for1066937-1068145) E64440 E64440 Methanococcus jannaschii 2190 -11541846 247559 mj1126 gtp-binding protein:member of gtp1/obg-family (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to sp:p25519 gb:d00743 gb:u00005 pid:436156) (le:5747) (re:6955) (di:direct) U67555 U67555 g1591762 Methanococcus jannaschii 2190 -11541846 6500737988 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1126 MJ1126 Methanococcus jannaschii 2190 -11541846

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940520	21889	44045	441	146

Description

5000699075 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1127 MJ1127 Methanococcus jannaschii 2190 -11541847 5500686475 mj1127 (de:hypothetical protein mj1127) (db:swissprot) YB27_METJA Q58527 METHANOCOCCUS JANNASCHII 2190 -11541847 173896 conserved hypothetical protein mj1127 (cl:methanococcus jannaschii conserved hypothetical protein mj1127) (db:pir2.dat) (mp:for1068206-1069048) F64440 F64440 Methanococcus jannaschii 2190 -11541847 247560 mj1127 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 46.18;) (le:7016) (re:7858) (di:direct) U67555 U67555 g1499979 Methanococcus jannaschii 2190 -11541847 6500737989 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1127 MJ1127 Methanococcus jannaschii 2190 -11541847

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940521	21890	44046	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940522	21891	44047	192	63

Description

5000699076 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1128 MJ1128 Methanococcus jannaschii 2190 -11541848 173897 hypothetical protein mj1128 (db:pir2.dat) (mp:rev1069975-1069049) G64440 G64440 Methanococcus jannaschii 2190 -11541848 247561 mj1128 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to sp:p46555 percent identity: 32.32;) (le:7859) (re:8785) (di:complement) U67555 U67555 g1591763 Methanococcus jannaschii 2190 -11541848 6500737990 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1128 MJ1128 Methanococcus jannaschii 2190 -11541848

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940526	21892	44048	558	185

Description

5000699077 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1129 MJ1129 Methanococcus jannaschii 2190 -11541849 173258 hypothetical protein homolog mj1129 (cl:conserved hypothetical protein mj1129) (db:pir2.dat) (mp:rev1070265-1069978) H64440 H64440 Methanococcus jannaschii 2190 -11541849 247562 mj1129 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 97 of 150 of the complete genome.) (nt:similar to gp:1620928 percent identity: 33.33;) (le:8788) (re:9075) (di:complement) U67555 U67555 g1591764 Methanococcus jannaschii 2190 -11541849 6500737991 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1129 MJ1129 Methanococcus jannaschii 2190 -11541849

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940528	21893	44049	483	160

Description

5000699078 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1132 MJ1132 Methanococcus jannaschii 2190 -11541850 7500896365 mj1132 (de:hypothetical protein mj1132) (db:swissprot) YB32_METJA Q58532 METHANOCOCCUS JANNASCHII 2190 -11541850 173898 conserved hypothetical protein mj1132 (cl:methanococcus jannaschii conserved hypothetical protein mj1132) (db:pir2.dat) (mp:rev1073403-1073047) C64441 C64441 Methanococcus jannaschii 2190 -11541850 7500896367 mj1132 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 42.53;) (le:1019) (re:1375) (di:complement) U67556 U67556 g1499985 Methanococcus jannaschii 2190 -11541850 6500737992 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1132 MJ1132 Methanococcus jannaschii 2190 -11541850 247565 mju67556 (le:1073047) (re:1073403) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1132 gn:mj1132 le:1019 re:1375 di:complement nt:identified by genemark; putative) U67556 U67556 g1499985 Methanococcus jannaschii 2190 -11541850

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940532	21894	44050	603	201

Description

5000699079 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1133 MJ1133 Methanococcus jannaschii 2190 -11541851 173259 hypothetical protein homolog mj1133 (cl:conserved hypothetical protein mth1394) (db:pir2.dat) (mp:for1073592-1074857) D64441 D64441 Methanococcus jannaschii 2190 -11541851 247566 mj1133 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to sp:p22349 gb:x02586 pid:44543 percent) (le:1564) (re:2829) (di:direct) U67556 U67556 g1499986 Methanococcus jannaschii 2190 -11541851 6500737993 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1133 MJ1133 Methanococcus jannaschii 2190 -11541851

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940533	21895	44051	693	230

Description

5000699080 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1134 MJ1134 Methanococcus jannaschii 2190 -11541852 173899 hypothetical protein mj1134 (db:pir2.dat) (mp:rev1075560-1074880) E64441 E64441 Methanococcus jannaschii 2190 -11541852 247567 mj1134 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gb:l09228 sp:p35154 pid:410131) (le:2852) (re:3532) (di:complement) U67556 U67556 g1591768 Methanococcus jannaschii 2190 -11541852 6500737994 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1134 MJ1134 Methanococcus jannaschii 2190 -11541852

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940536	21896	44052	732	243

Description

5000699081 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1136 MJ1136 Methanococcus jannaschii 2190 -11541853 4000708427 mj1136 (de:hypothetical protein mj1136) (db:swissprot) YB36_METJA Q58536 METHANOCOCCUS JANNASCHII 2190 -11541853 173284 hypothetical protein lpg22p homolog (cl:hypothetical protein ypl086c) (db:pir2.dat) (mp:for1076255-1077880) G64441 G64441 Methanococcus jannaschii 2190 -11541853 247569 mj1136 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gp:1483303 percent identity: 44.53;) (le:4227) (re:5852) (di:direct) U67556 U67556 g1591770 Methanococcus jannaschii 2190 -11541853 6500737995 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1136 MJ1136 Methanococcus jannaschii 2190 -11541853

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940537	21897	44053	816	271

Description

5000699082 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1137 MJ1137 Methanococcus jannaschii 2190 -11541854 173900 hypothetical protein mj1137 (db:pir2.dat) (mp:rev1078609-1078034) H64441 H64441 Methanococcus jannaschii 2190 -11541854 247570 mj1137 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gb:u02878 sp:p41078 pid:434679 percent) (le:6006) (re:6581) (di:complement) U67556 U67556 g1591771 Methanococcus jannaschii 2190 -11541854 6500737996 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1137 MJ1137 Methanococcus jannaschii 2190 -11541854

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940539	21898	44054	219	72

Description

5000699083 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1138 MJ1138 Methanococcus jannaschii 2190 -11541855 173901 hypothetical protein mj1138 (db:pir2.dat) (mp:for1078696-1079220) A64442 A64442 Methanococcus jannaschii 2190 -11541855 247571 mj1138 m. jannaschii predicted coding region mj1138 (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6668) (re:7192) (di:direct) U67556 U67556 g1499991 Methanococcus jannaschii 2190 -11541855 6500737997 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1138 MJ1138 Methanococcus jannaschii 2190 -11541855

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940541	21899	44055	219	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940550	21900	44056	795	264

Description

GTC ORF with score 599 to: (de:(yhr037w) (pn:delta-1-pyrroline-5-carboxylate dehydrogenase precursor:p5c dehydrogenase:1-pyrroline-5-carboxylate dehydrogenase) (gn:put2) (gtcfc:5.1:5.10) (ec:1.5.1.12) (put2_yeast) (keggfc:5.1:5.10) (sgdfc:1.1.1:9.7.0) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940551	21901	44057	234	77

Description

GTC ORF with score 187 to: (de:(yhr037w) (pn:delta-1-pyrroline-5-carboxylate dehydrogenase precursor:p5c dehydrogenase:1-pyrroline-5-carboxylate dehydrogenase) (gn:put2) (gtcfc:5.1:5.10) (ec:1.5.1.12) (put2_yeast) (keggfc:5.1:5.10) (sgdfc:1.1.1:9.7.0) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940552	21902	44058	216	71

Description

5000699084 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1139 MJ1139 Methanococcus jannaschii 2190 -11541856 173902 hypothetical protein mj1139 (db:pir2.dat) (mp:rev1080033-1079335) B64442 B64442 Methanococcus jannaschii 2190 -11541856 247572 mj1139 m. jannaschii predicted coding region mj1139 (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7307) (re:8005) (di:complement) U67556 U67556 g1499992 Methanococcus jannaschii 2190 -11541856 6500737998 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1139 MJ1139 Methanococcus jannaschii 2190 -11541856

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940553	21903	44059	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940555	21904	44060	858	286

Description

5000699085 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1140 MJ1140 Methanococcus jannaschii 2190 -11541857 173903 hypothetical protein mj1140 (db:pir2.dat) (mp:rev1080821-1080048) C64442 C64442 Methanococcus jannaschii 2190 -11541857 247573 mj1140 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gp:1652991 percent identity: 33.68;) (le:8020) (re:8793) (di:complement) U67556 U67556 g1591772 Methanococcus jannaschii 2190 -11541857 6500737999 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1140 MJ1140 Methanococcus jannaschii 2190 -11541857

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940556	21905	44061	213	70

Description

5000699086 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1141 MJ1141 Methanococcus jannaschii 2190 -11541858 173904 conserved hypothetical protein mj1141 (cl:methanococcus jannaschii conserved hypothetical protein mj1141) (db:pir2.dat) (mp:for1080767-1081411) D64442 D64442 Methanococcus jannaschii 2190 -11541858 247574 mj1141 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 38.92;) (le:8739) (re:9383) (di:direct) U67556 U67556 g1591773 Methanococcus jannaschii 2190 -11541858 6500738000 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1141 MJ1141 Methanococcus jannaschii 2190 -11541858

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940557	21906	44062	423	141

Description

5000699087 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1143 MJ1143 Methanococcus jannaschii 2190 -11541859 121747 mj1143 (de:hypothetical protein mj1143) (db:swissprot) YB43_METJA Q58543 METHANOCOCCUS JANNASCHII 2190 -11541859 173905 hypothetical protein mj1143 (cl:conserved hypothetical protein mj0170) (db:pir2.dat) (mp:for1082524-1083609) F64442 F64442 Methanococcus jannaschii 2190 -11541859 247576 mj1143 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 98 of 150 of the complete genome.) (nt:similar to gp:1787591 percent identity: 32.76;) (le:10496) (re:11581) (di:direct) U67556 U67556 g1591775 Methanococcus jannaschii 2190 -11541859 6500738001 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1143 MJ1143 Methanococcus jannaschii 2190 -11541859

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940559	21907	44063	330	110

Description

5000699088 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1145 MJ1145 Methanococcus jannaschii 2190 -11541860 173907 hypothetical protein mj1145 (db:pir2.dat) (mp:rev1085114-1084917) H64442 H64442 Methanococcus jannaschii 2190 -11541860 247578 mj1145 m. jannaschii predicted coding region mj1145 (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:195) (re:392) (di:complement) U67557 U67557 g1592322 Methanococcus jannaschii 2190 -11541860 6500738002 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1145 MJ1145 Methanococcus jannaschii 2190 -11541860

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940560	21908	44064	783	260

Description

5000699089 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1147 MJ1147 Methanococcus jannaschii 2190 -11541861 5500686476 mj1147 (de:hypothetical protein mj1147) (db:swissprot) YB47_METJA Q58547 METHANOCOCCUS JANNASCHII 2190 -11541861 173908 hypothetical protein mj1147 (db:pir2.dat) (mp:for1086403-1087791) B64443 B64443 Methanococcus jannaschii 2190 -11541861 247580 mj1147 m. jannaschii predicted coding region mj1147 (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1681) (re:3069) (di:direct) U67557 U67557 g1591779 Methanococcus jannaschii 2190 -11541861 6500738003 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1147 MJ1147 Methanococcus jannaschii 2190 -11541861

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940562	21909	44065	234	77

Description

5000699090 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1150 MJ1150 Methanococcus jannaschii 2190 -11541862 173909 hypothetical protein mj1150 (cl:conserved hypothetical protein mj1150) (db:pir2.dat) (mp:for1088681-1089235) E64443 E64443 Methanococcus jannaschii 2190 -11541862 247583 mj1150 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 36.87;) (le:3959) (re:4513) (di:direct) U67557 U67557 g1591781 Methanococcus jannaschii 2190 -11541862 6500738004 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1150 MJ1150 Methanococcus jannaschii 2190 -11541862

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940564	21910	44066	435	145

Description

5000699091 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1151 MJ1151 Methanococcus jannaschii 2190 -11541863 173910 hypothetical protein mj1151 (db:pir2.dat) (mp:for1089345-1089686) F64443 F64443 Methanococcus jannaschii 2190 -11541863 247584 mj1151 m. jannaschii predicted coding region mj1151 (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4623) (re:4964) (di:direct) U67557 U67557 g1591782 Methanococcus jannaschii 2190 -11541863 6500738005 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1151 MJ1151 Methanococcus jannaschii 2190 -11541863

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940570	21911	44067	531	176

Description

5000699092 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1152 MJ1152 Methanococcus jannaschii 2190 -11541864 173911 hypothetical protein mj1152 (db:pir2.dat) (mp:for1089686-1089907) G64443 G64443 Methanococcus jannaschii 2190 -11541864 247585 mj1152 m. jannaschii predicted coding region mj1152 (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4964) (re:5185) (di:direct) U67557 U67557 g1591783 Methanococcus jannaschii 2190 -11541864 6500738006 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1152 MJ1152 Methanococcus jannaschii 2190 -11541864

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940573	21912	44068	219	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940574	21913	44069	198	65

Description

5000699093 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1153 MJ1153 Methanococcus jannaschii 2190 -11541865 173912 hypothetical protein mj1153 (db:pir2.dat) (mp:for1089904-1090092) H64443 H64443 Methanococcus jannaschii 2190 -11541865 247586 mj1153 m. jannaschii predicted coding region mj1153 (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5182) (re:5370) (di:direct) U67557 U67557 g1500007 Methanococcus jannaschii 2190 -11541865 6500738007 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1153 MJ1153 Methanococcus jannaschii 2190 -11541865

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940587	21914	44070	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940588	21915	44071	510	169

Description

5000699094 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1154 MJ1154 Methanococcus jannaschii 2190 -11541866 173913 conserved hypothetical protein mj1154 (cl:methanococcus jannaschii conserved hypothetical protein mj1154) (db:pir2.dat) (mp:rev1091600-1090245) A64444 A64444 Methanococcus jannaschii 2190 -11541866 247587 mj1154 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:similar to gp:1561567 percent identity: 32.98;) (le:5523) (re:6878) (di:complement) U67557 U67557 g1500008 Methanococcus jannaschii 2190 -11541866 6500738008 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1154 MJ1154 Methanococcus jannaschii 2190 -11541866

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940590	21916	44072	414	137

Description

5000699095 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1155 MJ1155 Methanococcus jannaschii 2190 -11541867 7000687259 mj1155 (de:hypothetical protein mj1155) (db:swissprot) YB55_METJA Q58555 METHANOCOCCUS JANNASCHII 2190 -11541867 173260 hypothetical protein homolog mj1155 (db:pir2.dat) (mp:rev1093686-1091875) B64444 B64444 Methanococcus jannaschii 2190 -11541867 247588 mj1155 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 99 of 150 of the complete genome.) (nt:similar to pid:882546 gb:u00096 pid:1789392 percent) (le:7153) (re:8964) (di:complement) U67557 U67557 g1591784 Methanococcus jannaschii 2190 -11541867 6500738009 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1155 MJ1155 Methanococcus jannaschii 2190 -11541867

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940592	21917	44073	807	268

Description

5000699096 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1158 MJ1158 Methanococcus jannaschii 2190 -11541868 173915 hypothetical protein mj1158 (db:pir2.dat) (mp:rev1097633-1097244) D64444 D64444 Methanococcus jannaschii 2190 -11541868 247590 mj1158 m. jannaschii predicted coding region mj1158 (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:85) (re:474) (di:complement) U67558 U67558 g1500013 Methanococcus jannaschii 2190 -11541868 6500738010 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1158 MJ1158 Methanococcus jannaschii 2190 -11541868

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940593	21918	44074	825	274

Description

5000699097 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1157 MJ1157 Methanococcus jannaschii 2190 -11541869 4000709952 mj1157 (de:hypothetical protein mj1157) (db:swissprot) YB57_METJA Q58558 METHANOCOCCUS JANNASCHII 2190 -11541869 173914 hypothetical protein mj1157 (cl:conserved hypothetical protein mj1157) (db:pir2.dat) (mp:for1097616-1098641) E64444 E64444 Methanococcus jannaschii 2190 -11541869 247591 mj1157 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:similar to gp:1655726 percent identity: 32.52;) (le:457) (re:1482) (di:direct) U67558 U67558 g1592323 Methanococcus jannaschii 2190 -11541869 6500738011 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1157 MJ1157 Methanococcus jannaschii 2190 -11541869

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940596	21919	44075	207	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940599	21920	44076	294	97

Description

5000699098 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1159 MJ1159 Methanococcus jannaschii 2190 -11541870 173916 hypothetical protein mj1159 (db:pir2.dat) (mp:for1098678-1100615) F64444 F64444 Methanococcus jannaschii 2190 -11541870 247592 mj1159 replication factor a related protein (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 0.00;) (le:1519) (re:3456) (di:direct) U67558 U67558 g1500014 Methanococcus jannaschii 2190 -11541870 6500738012 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1159 MJ1159 Methanococcus jannaschii 2190 -11541870

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940600	21921	44077	342	113

Description

5000699099 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1161 MJ1161 Methanococcus jannaschii 2190 -11541871 173917 hypothetical protein mj1161 (db:pir2.dat) (mp:for1102131-1102634) H64444 H64444 Methanococcus jannaschii 2190 -11541871 247594 mj1161 m. jannaschii predicted coding region mj1161 (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4972) (re:5475) (di:direct) U67558 U67558 g1591787 Methanococcus jannaschii 2190 -11541871 6500738013 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1161 MJ1161 Methanococcus jannaschii 2190 -11541871

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940605	21922	44078	465	155

Description

5000699100 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1162 MJ1162 Methanococcus jannaschii 2190 -11541872 174282 hypothetical protein u homolog (cl:hypothetical protein mth1882) (db:pir2.dat) (mp:rev1103956-1103300) A64445 A64445 Methanococcus jannaschii 2190 -11541872 247595 mj1162 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:similar to percent identity: 45.89; identified by) (le:6141) (re:6797) (di:complement) U67558 U67558 g1591788 Methanococcus jannaschii 2190 -11541872 6500738014 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1162 MJ1162 Methanococcus jannaschii 2190 -11541872

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940607	21923	44079	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940608	21924	44080	249	82

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940610	21925	44081	690	230

Description

5000699101 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1163 MJ1163 Methanococcus jannaschii 2190 -11541873 173918 hypothetical protein mj1163 (cl:conserved hypothetical protein mj1163) (db:pir2.dat) (mp:for1104099-1104752) B64445 B64445 Methanococcus jannaschii 2190 -11541873 247596 mj1163 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:similar to gp:1707795 percent identity: 42.53;) (le:6940) (re:7593) (di:direct) U67558 U67558 g1591789 Methanococcus jannaschii 2190 -11541873 6500738015 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1163 MJ1163 Methanococcus jannaschii 2190 -11541873

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940611	21926	44082	570	189

Description

5000699102 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1164 MJ1164 Methanococcus jannaschii 2190 -11541874 173919 conserved hypothetical protein mj1164 (cl:methanococcus jannaschii conserved hypothetical protein mj1164) (db:pir2.dat) (mp:rev1106050-1105094) C64445 C64445 Methanococcus jannaschii 2190 -11541874 247597 mj1164 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 36.75;) (le:7935) (re:8891) (di:complement) U67558 U67558 g1591790 Methanococcus jannaschii 2190 -11541874 6500738016 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1164 MJ1164 Methanococcus jannaschii 2190 -11541874

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940623	21927	44083	252	84

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940627	21928	44084	843	280

Description

5000699103 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1170 MJ1170 Methanococcus jannaschii 2190 -11541875 173261 hypothetical protein homolog mj1170 (db:pir2.dat) (mp:for1110277-1110546) A64446 A64446 Methanococcus jannaschii 2190 -11541875 247603 mj1170 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 100 of 150 of the complete genome.) (nt:similar to gb:m82881 sp:p33382 pid:149648 percent) (le:13118) (re:13387) (di:direct) U67558 U67558 g1591796 Methanococcus jannaschii 2190 -11541875 6500738017 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1170 MJ1170 Methanococcus jannaschii 2190 -11541875

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940628	21929	44085	810	269

Description

5000699104 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1172 MJ1172 Methanococcus jannaschii 2190 -11541876 173920 hypothetical protein mj1172 (db:pir2.dat) (mp:for1111532-1111786) C64446 C64446 Methanococcus jannaschii 2190 -11541876 247605 mj1172 m. jannaschii predicted coding region mj1172 (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:95) (re:349) (di:direct) U67559 U67559 g1592324 Methanococcus jannaschii 2190 -11541876 6500738018 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1172 MJ1172 Methanococcus jannaschii 2190 -11541876

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940630	21930	44086	828	275

Description

5000699105 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1173 MJ1173 Methanococcus jannaschii 2190 -11541877 173921 hypothetical protein mj1173 (cl:hypothetical protein mj1173) (db:pir2.dat) (mp:for1111787-1112071) D64446 D64446 Methanococcus jannaschii 2190 -11541877 247606 mj1173 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 41.18;) (le:350) (re:634) (di:direct) U67559 U67559 g1591800 Methanococcus jannaschii 2190 -11541877 6500738019 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1173 MJ1173 Methanococcus jannaschii 2190 -11541877

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940642	21931	44087	372	123

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940645	21932	44088	441	146

Description

5000699106 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1178 MJ1178 Methanococcus jannaschii 2190 -11541878 173262 hypothetical protein homolog mj1178 (db:pir2.dat) (mp:rev1117459-1116404) H64446 H64446 Methanococcus jannaschii 2190 -11541878 247610 mj1178 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to sp:p42982 pid:755606 pid:1146237) (le:4967) (re:6022) (di:complement) U67559 U67559 g1591805 Methanococcus jannaschii 2190 -11541878 6500738020 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1178 MJ1178 Methanococcus jannaschii 2190 -11541878

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940651	21933	44089	531	176

Description

5000699107 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1177 MJ1177 Methanococcus jannaschii 2190 -11541879 173922 hypothetical protein mj1177 (db:pir2.dat) (mp:for1117468-1118472) A64447 A64447 Methanococcus jannaschii 2190 -11541879 247611 mj1177 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to gb:m94110 sp:q04454 pid:142791 percent) (le:6031) (re:7035) (di:direct) U67559 U67559 g1591804 Methanococcus jannaschii 2190 -11541879 6500738021 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1177 MJ1177 Methanococcus jannaschii 2190 -11541879

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940653	21934	44090	531	176

Description

5000699108 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1180 MJ1180 Methanococcus jannaschii 2190 -11541880 173924 hypothetical protein mj1180 (db:pir2.dat) (mp:for1119547-1119984) C64447 C64447 Methanococcus jannaschii 2190 -11541880 247613 mj1180 m. jannaschii predicted coding region mj1180 (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8110) (re:8547) (di:direct) U67559 U67559 g1591807 Methanococcus jannaschii 2190 -11541880 6500738022 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1180 MJ1180 Methanococcus jannaschii 2190 -11541880

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940665	21935	44091	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940666	21936	44092	555	185

Description

5000699109 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1181 MJ1181 Methanococcus jannaschii 2190 -11541881 173925 hypothetical protein mj1181 (db:pir2.dat) (mp:for1120083-1120682) D64447 D64447 Methanococcus jannaschii 2190 -11541881 247614 mj1181 m. jannaschii predicted coding region mj1181 (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8646) (re:9245) (di:direct) U67559 U67559 g1591808 Methanococcus jannaschii 2190 -11541881 6500738023 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1181 MJ1181 Methanococcus jannaschii 2190 -11541881

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940671	21937	44093	222	73

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940677	21938	44094	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940687	21939	44095	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940697	21940	44096	762	253

Description

5000699110 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1182 MJ1182 Methanococcus jannaschii 2190 -11541882 173926 hypothetical protein mj1182 (db:pir2.dat) (mp:for1121089-1122189) E64447 E64447 Methanococcus jannaschii 2190 -11541882 247615 mj1182 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 30.59;) (le:9652) (re:10752) (di:direct) U67559 U67559 g1591809 Methanococcus jannaschii 2190 -11541882 6500738024 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1182 MJ1182 Methanococcus jannaschii 2190 -11541882

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940715	21941	44097	183	60

Description

5000699111 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1183 MJ1183 Methanococcus jannaschii 2190 -11541883 173927 conserved hypothetical protein mj1183 (cl:methanococcus jannaschii conserved hypothetical protein mj1183) (db:pir2.dat) (mp:for1122190-1122675) F64447 F64447 Methanococcus jannaschii 2190 -11541883 247616 mj1183 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 101 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 39.60;) (le:10753) (re:11238) (di:direct) U67559 U67559 g1591810 Methanococcus jannaschii 2190 -11541883 6500738025 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1183 MJ1183 Methanococcus jannaschii 2190 -11541883

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940722	21942	44098	336	111

Description

5000699113 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1186 MJ1186 Methanococcus jannaschii 2190 -11541884 173930 hypothetical protein mj1186 (db:pir2.dat) (mp:for1125196-1126236) A64448 A64448 Methanococcus jannaschii 2190 -11541884 247619 mj1186 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 102 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 50.16;) (le:106) (re:1146) (di:direct) U67560 U67560 g1591814 Methanococcus jannaschii 2190 -11541884 6500738026 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1186 MJ1186 Methanococcus jannaschii 2190 -11541884

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940725	21943	44099	528	176

Description

5000699114 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1188 MJ1188 Methanococcus jannaschii 2190 -11541885 173931 hypothetical protein mj1188 (db:pir2.dat) (mp:rev1127049-1126237) B64448 B64448 Methanococcus jannaschii 2190 -11541885 247620 mj1188 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 102 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 33.21;) (le:1147) (re:1959) (di:complement) U67560 U67560 g1591816 Methanococcus jannaschii 2190 -11541885 6500738027 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1188 MJ1188 Methanococcus jannaschii 2190 -11541885

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940728	21944	44100	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940737	21945	44101	591	197

Description

5000699115 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1189 MJ1189 Methanococcus jannaschii 2190 -11541886 500685028 mj1189 (de:hypothetical protein mj1189) (db:swissprot) YB89_METJA Q58589 METHANOCOCCUS JANNASCHII 2190 -11541886 173932 hypothetical protein mj1189 (cl:hypothetical protein mj0233) (db:pir2.dat) (mp:rev1128910-1128059) D64448 D64448 Methanococcus jannaschii 2190 -11541886 247622 mj1189 m. jannaschii predicted coding region mj1189 (db:genpept-bct1) (de:methanococcus jannaschii section 102 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2969) (re:3820) (di:complement) U67560 U67560 g1591817 Methanococcus jannaschii 2190 -11541886 6500738028 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1189 MJ1189 Methanococcus jannaschii 2190 -11541886

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940744	21946	44102	411	136

Description

5000699116 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1198 MJ1198 Methanococcus jannaschii 2190 -11541887 173933 hypothetical protein mj1198 (cl:conserved hypothetical protein mj1198) (db:pir2.dat) (mp:for1142325-1144610) E64449 E64449 Methanococcus jannaschii 2190 -11541887 247631 mj1198 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 103 of 150 of the complete genome.) (nt:similar to gb:177117 pid:1591827 percent identity:) (le:5070) (re:7355) (di:direct) U67561 U67561 g1591827 Methanococcus jannaschii 2190 -11541887 6500738029 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1198 MJ1198 Methanococcus jannaschii 2190 -11541887

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940745	21947	44103	183	61

Description

5000699117 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1199 MJ1199 Methanococcus jannaschii 2190 -11541888 173934 hypothetical protein mj1199 (db:pir2.dat) (mp:rev1145070-1144630) F64449 F64449 Methanococcus jannaschii 2190 -11541888 247632 mj1199 m. jannaschii predicted coding region mj1199 (db:genpept-bct1) (de:methanococcus jannaschii section 103 of 150 of the complete genome.) (nt:invalid gene; identified by genemark; putative) (le:7375) (re:7815) (di:complement) U67561 U67561 g1591828 Methanococcus jannaschii 2190 -11541888 6500738030 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1199 MJ1199 Methanococcus jannaschii 2190 -11541888

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940751	21948	44104	771	256

Description

5000699118 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1205 MJ1205 Methanococcus jannaschii 2190 -11541889 7500921419 mj1205 (de:hypothetical protein mj1205) (db:swissprot) YC05_METJA Q58602 METHANOCOCCUS JANNASCHII 2190 -11541889 173935 conserved hypothetical protein mj1205 (cl:methanococcus jannaschii conserved hypothetical protein mj1132) (db:pir2.dat) (mp:rev1148681-1148370) D64450 D64450 Methanococcus jannaschii 2190 -11541889 7500921421 mj1205 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 47.00;) (le:2148) (re:2459) (di:complement) U67562 U67562 g1591835 Methanococcus jannaschii 2190 -11541889 6500738031 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1205 MJ1205 Methanococcus jannaschii 2190 -11541889 247638 mju67562 (le:1148370) (re:1148681) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1205 gn:mj1205 le:2148 re:2459 di:complement nt:identified by genemark; putative) U67562 U67562 g1591835 Methanococcus jannaschii 2190 -11541889

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940757	21949	44105	405	135

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940774	21950	44106	573	190

Description

GTC ORF with score 270 to: (sr:house mouse) (db:genpept-rod) (de:mus musculus sulfonylurea receptor 2a (sur2) mrna, alternativelyspliced, complete cds.) (nt:sur2a; katp channel regulatory subunit and su drug) (le:218) (re:4753) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940775	21951	44107	606	202

Description

5000699119 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1206 MJ1206 Methanococcus jannaschii 2190 -11541890 173936 hypothetical protein mj1206 (cl:conserved hypothetical protein mj1206) (db:pir2.dat) (mp:rev1149948-1148674) E64450 E64450 Methanococcus jannaschii 2190 -11541890 247639 mj1206 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to gp:1707814 percent identity: 47.58;) (le:2452) (re:3726) (di:complement) U67562 U67562 g1591836 Methanococcus jannaschii 2190 -11541890 6500738032 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1206 MJ1206 Methanococcus jannaschii 2190 -11541890

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940784	21952	44108	666	221

Description

GTC ORF with score 785 to: (or:Aspergillus oryzae) (sr:aspergillus oryzae (strain:jcm02238) dna) (db:genpept-pln1) (de:aspergillus oryzae gene for hapb, complete cds.) (nt:putative component of ccaat binding complex: yeast) (le:279) (re:1382) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940789	21953	44109	564	188

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940790	21954	44110	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940792	21955	44111	210	69

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940798	21956	44112	270	89

Description

5000699121 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1208 MJ1208 Methanococcus jannaschii 2190 -11541891 7500921425 mj1208 (de:hypothetical protein mj1208) (db:swissprot) YC08_METJA Q58605 METHANOCOCCUS JANNASCHII 2190 -11541891 174302 isoleucine--trna ligase 5 region hypothetical protein 401 homolog (db:pir2.dat) (mp:for1151380-1152600) G64450 G64450 Methanococcus jannaschii 2190 -11541891 7500921427 mj1208 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to gb:x66398 sp:p26498 pid:149727) (le:5158) (re:6378) (di:direct) U67562 U67562 g1591838 Methanococcus jannaschii 2190 -11541891 6500738033 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1208 MJ1208 Methanococcus jannaschii 2190 -11541891 247641 mju67562 (le:1151380) (re:1152600) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein (s21569) gn:mj1208 le:5158 re:6378 di:direct nt:similar to s21569 percent identity: 57.4;) U67562 U67562 g1591838 Methanococcus jannaschii 2190 -11541891

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940805	21957	44113	450	150

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940806	21958	44114	567	180

Description

5000699122 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1210 MJ1210 Methanococcus jannaschii 2190 -11541892 118860 mj1210 (de:hypothetical protein mj1210) (db:swissprot) YC10_METJA Q58607 METHANOCOCCUS JANNASCHII 2190 -11541892 173939 probable 3-isopropylmalate dehydratase:hypothetical protein mj1210 (cl:3-isopropylmalate dehydratase leud chain) (db:pir2.dat) (mp:rev1154923-1154147) A64451 A64451 Methanococcus jannaschii 2190 -11541892 247643 mj1210 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 46.03;) (le:7925) (re:8701) (di:complement) U67562 U67562 g1591839 Methanococcus jannaschii 2190 -11541892 6500738034 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1210 MJ1210 Methanococcus jannaschii 2190 -11541892

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940819	21959	44115	369	122

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940832	21960	44116	498	166

Description

5000699123 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1211 MJ1211 Methanococcus jannaschii 2190 -11541893 173940 hypothetical protein mj1211 (db:pir2.dat) (mp:rev1155292-1154942) B64451 B64451 Methanococcus jannaschii 2190 -11541893 247644 mj1211 m. jannaschii predicted coding region mj1211 (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8720) (re:9070) (di:complement) U67562 U67562 g1591840 Methanococcus jannaschii 2190 -11541893 6500738035 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1211 MJ1211 Methanococcus jannaschii 2190 -11541893

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940844	21961	44117	387	128

Description

5000699124 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1213 MJ1213 Methanococcus jannaschii 2190 -11541894 118861 mj1213 (de:hypothetical protein mj1213) (db:swissprot) YC13_METJA Q58610 METHANOCOCCUS JANNASCHII 2190 -11541894 173941 hypothetical protein mj1213 (db:pir2.dat) (mp:rev1156522-1156190) D64451 D64451 Methanococcus jannaschii 2190 -11541894 247646 mj1213 m. jannaschii predicted coding region mj1213 (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9968) (re:10300) (di:complement) U67562 U67562 g1591842 Methanococcus jannaschii 2190 -11541894 6500738036 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1213 MJ1213 Methanococcus jannaschii 2190 -11541894

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940872	21962	44118	375	124

Description

5000699128 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1219 MJ1219 Methanococcus jannaschii 2190 -11541895 173945 hypothetical protein mj1219 (db:pir2.dat) (mp:rev1162188-1161874) B64452 B64452 Methanococcus jannaschii 2190 -11541895 247652 mj1219 m. jannaschii predicted coding region mj1219 (db:genpept-bct1) (de:methanococcus jannaschii section 104 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:15652) (re:15966) (di:complement) U67562 U67562 g1591848 Methanococcus jannaschii 2190 -11541895 6500738037 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1219 MJ1219 Methanococcus jannaschii 2190 -11541895

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940883	21963	44119	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940889	21964	44120	282	93

Description

5000699129 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1221 MJ1221 Methanococcus jannaschii 2190 -11541896 5500686487 mj1221 (de:hypothetical protein mj1221) (db:swissprot) YC21_METJA Q58618 METHANOCOCCUS JANNASCHII 2190 -11541896 173946 hypothetical protein mj1221 (db:pir2.dat) (mp:for1164064-1164963) D64452 D64452 Methanococcus jannaschii 2190 -11541896 247654 mj1221 m. jannaschii predicted coding region mj1221 (db:genpept-bct1) (de:methanococcus jannaschii section 105 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1866) (re:2765) (di:direct) U67563 U67563 g1591852 Methanococcus jannaschii 2190 -11541896 6500738038 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1221 MJ1221 Methanococcus jannaschii 2190 -11541896

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940890	21965	44121	408	135

Description

5000699445 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1222 MJ1222 Methanococcus jannaschii 2190 -11541897 4000708428 mj1222 (de:hypothetical protein mj1222) (db:swissprot) YC22_METJA Q58619 METHANOCOCCUS JANNASCHII 2190 -11541897 173947 conserved hypothetical protein mj1222 (cl:methanococcus jannaschii conserved hypothetical protein mj1222) (db:pir2.dat) (mp:rev1165714-1164983) E64452 E64452 Methanococcus jannaschii 2190 -11541897 247655 mj1222 dolichol-p-glucose synthetase isolog (db:genpept-bct1) (de:methanococcus jannaschii section 105 of 150 of the complete genome.) (nt:similar to sp:p40350 pid:1181261 pid:1370470) (le:2785) (re:3516) (di:complement) U67563 U67563 g1591853 Methanococcus jannaschii 2190 -11541897 6500738039 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1222 MJ1222 Methanococcus jannaschii 2190 -11541897

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940895	21966	44122	378	125

Description

GTC ORF with score 196 to: (or:Caenorhabditis elegans) (db:genpept-inv) (de:caenorhabditis elegans cosmid f57f5, complete sequence.) (nt:similar to adducin; cdna est embl:d66652 comes from) (le:12680:12943:13416) (re:12807:13192:13727) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940904	21967	44123	447	148

Description

5000699130 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1223 MJ1223 Methanococcus jannaschii 2190 -11541898 173948 hypothetical protein mj1223 (db:pir2.dat) (mp:rev1165958-1165680) F64452 F64452 Methanococcus jannaschii 2190 -11541898 247656 mj1223 m. jannaschii predicted coding region mj1223 (db:genpept-bct1) (de:methanococcus jannaschii section 105 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3482) (re:3760) (di:complement) U67563 U67563 g1591854 Methanococcus jannaschii 2190 -11541898 6500738040 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1223 MJ1223 Methanococcus jannaschii 2190 -11541898

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940910	21968	44124	492	163

Description

GTC ORF with score 521 to: (sr:gibberella zeae (sub_species:graminearum, strain:f15) dna) (db:genpept-pln2) (de:gibberella zeae genes for trichothecene 3-o-acetyltransferase,utp-ammonia ligase and phosphate permease, complete cds.) (le:6588:7075:7622) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940918	21969	44125	588	196

Description

5000699131 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1224 MJ1224 Methanococcus jannaschii 2190 -11541899 173949 hypothetical protein mj1224 (cl:hypothetical protein mj1224) (db:pir2.dat) (mp:rev1167018-1166599) G64452 G64452 Methanococcus jannaschii 2190 -11541899 247657 mj1224 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 105 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 44.72;) (le:4401) (re:4820) (di:complement) U67563 U67563 g1591855 Methanococcus jannaschii 2190 -11541899 6500738041 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1224 MJ1224 Methanococcus jannaschii 2190 -11541899

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940923	21970	44126	822	274

Description

5000699132 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1225 MJ1225 Methanococcus jannaschii 2190 -11541900 7500921447 mj1225 (de:hypothetical protein mj1225) (db:swissprot) YC25_METJA Q58622 METHANOCOCCUS JANNASCHII 2190 -11541900 173263 conserved hypothetical protein mj1225 (cl:conserved hypothetical protein mj1225:cbs homology) (db:pir2.dat) (mp:for1167099-1167941) H64452 H64452 Methanococcus jannaschii 2190 -11541900 7500921449 mj1225 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 105 of 150 of the complete genome.) (nt:similar to sp:p15889 pid:48226 percent ident:) (le:4901) (re:5743) (di:direct) U67563 U67563 g1591856 Methanococcus jannaschii 2190 -11541900 6500738042 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1225 MJ1225 Methanococcus jannaschii 2190 -11541900 247658 mju67563 (le:1167099) (re:1167941) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein (p15889) gn:mj1225 le:4901 re:5743 di:direct nt:similar to p15889 percent identity: 23.2;) U67563 U67563 g1591856 Methanococcus jannaschii 2190 -11541900

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940934	21971	44127	249	83

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940935	21972	44128	615	205

Description

5000699133 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1230 MJ1230 Methanococcus jannaschii 2190 -11541901 173950 hypothetical protein mj1230 (db:pir2.dat) (mp:rev1173464-1173234) E64453 E64453 Methanococcus jannaschii 2190 -11541901 247663 mj1230 m. jannaschii predicted coding region mj1230 (db:genpept-bct1) (de:methanococcus jannaschii section 105 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:11036) (re:11266) (di:complement) U67563 U67563 g1591861 Methanococcus jannaschii 2190 -11541901 6500738043 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1230 MJ1230 Methanococcus jannaschii 2190 -11541901

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940945	21973	44129	522	174

Description

5000699134 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1232 MJ1232 Methanococcus jannaschii 2190 -11541902 118868 mj1232 (de:hypothetical protein mj1232) (db:swissprot) YC32_METJA Q58629 METHANOCOCCUS JANNASCHII 2190 -11541902 173951 hypothetical protein mj1232 (cl:conserved hypothetical protein mj1232) (db:pir2.dat) (mp:rev1176336-1175446) G64453 G64453 Methanococcus jannaschii 2190 -11541902 247665 mj1232 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:similar to gp:1707784 percent identity: 37.93;) (le:153) (re:1043) (di:complement) U67564 U67564 g1591864 Methanococcus jannaschii 2190 -11541902 6500738044 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1232 MJ1232 Methanococcus jannaschii 2190 -11541902

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940951	21974	44130	324	107

Description

5000699135 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1233 MJ1233 Methanococcus jannaschii 2190 -11541903 173952 hypothetical protein mj1233 (db:pir2.dat) (mp:for1176450-1177316) H64453 H64453 Methanococcus jannaschii 2190 -11541903 247666 mj1233 m. jannaschii predicted coding region mj1233 (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1157) (re:2023) (di:direct) U67564 U67564 g1591865 Methanococcus jannaschii 2190 -11541903 6500738045 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1233 MJ1233 Methanococcus jannaschii 2190 -11541903

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940959	21975	44131	261	86

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940969	21976	44132	372	124

Description

5000699136 conserved hypothetical protein:mj0375:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1234 MJ1234 Methanococcus jannaschii 2190 -11541904 4000708429 mj1234 (de:hypothetical protein mj1234) (db:swissprot) YC34_METJA Q58631 METHANOCOCCUS JANNASCHII 2190 -11541904 173953 hypothetical protein mj1234 (db:pir2.dat) (mp:rev1178671-1177946) A64454 A64454 Methanococcus jannaschii 2190 -11541904 247667 mj1234 conserved hypothetical (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:similar to gb:l77117 sp:q57820 pid:1591082 percent) (le:2653) (re:3378) (di:complement) U67564 U67564 g1591866 Methanococcus jannaschii 2190 -11541904 6500738046 conserved hypothetical protein:mj0375:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1234 MJ1234 Methanococcus jannaschii 2190 -11541904

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940970	21977	44133	453	150

Description

5000699138 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1239 MJ1239 Methanococcus jannaschii 2190 -11541905 173954 hypothetical protein mj1239 (db:pir2.dat) (mp:for1184646-1185323) F64454 F64454 Methanococcus jannaschii 2190 -11541905 247672 mj1239 m. jannaschii predicted coding region mj1239 (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9353) (re:10030) (di:direct) U67564 U67564 g1591871 Methanococcus jannaschii 2190 -11541905 6500738047 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1239 MJ1239 Methanococcus jannaschii 2190 -11541905

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940985	21978	44134	339	113

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501940988	21979	44135	429	142

Description

GTC ORF with score 474 to: (de:(yel042w) (pn:guanosine-diphosphatase:gdpase:guanosine diphosphatase) (gn:sygp-orf16:gda1) (gtcfc:10.7:12.13:12.16) (ec:3.6.1.42) (gda1_yeast) (keggfc:11.1) (sgdfc:6.3.0:9.4.0:16.0.0) (db:gtc-saccharomyces cerevisiae))

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941002	21980	44136	279	92

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941010	21981	44137	231	76

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941025	21982	44138	186	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941035	21983	44139	564	188

Description

5000699139 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1240 MJ1240 Methanococcus jannaschii 2190 -11541906 173955 hypothetical protein mj1240 (db:pir2.dat) (mp:rev1185619-1185326) G64454 G64454 Methanococcus jannaschii 2190 -11541906 247673 mj1240 m. jannaschii predicted coding region mj1240 (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10033) (re:10326) (di:complement) U67564 U67564 g1591872 Methanococcus jannaschii 2190 -11541906 6500738048 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1240 MJ1240 Methanococcus jannaschii 2190 -11541906

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941037	21984	44140	564	188

Description

5000699140 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1241 MJ1241 Methanococcus jannaschii 2190 -11541907 173956 hypothetical protein mj1241 (db:pir2.dat) (mp:rev1185858-1185643) H64454 H64454 Methanococcus jannaschii 2190 -11541907 247674 mj1241 m. jannaschii predicted coding region mj1241 (db:genpept-bct1) (de:methanococcus jannaschii section 106 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:10350) (re:10565) (di:complement) U67564 U67564 g1591873 Methanococcus jannaschii 2190 -11541907 6500738049 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1241 MJ1241 Methanococcus jannaschii 2190 -11541907

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941042	21985	44141	354	117

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941065	21986	44142	516	172

Description

5000699141 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1243 MJ1243 Methanococcus jannaschii 2190 -11541908 173957 hypothetical protein mj1243 (cl:hypothetical protein mj1243) (db:pir2.dat) (mp:rev1187994-1187623) B64455 B64455 Methanococcus jannaschii 2190 -11541908 247676 mj1243 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 38.71;) (le:1708) (re:2079) (di:complement) U67565 U67565 g1591876 Methanococcus jannaschii 2190 -11541908 6500738050 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1243 MJ1243 Methanococcus jannaschii 2190 -11541908

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941069	21987	44143	342	113

Description

5000699142 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1244 MJ1244 Methanococcus jannaschii 2190 -11541909 173958 hypothetical protein mj1244 (cl:conserved hypothetical protein mj1244) (db:pir2.dat) (mp:rev1188412-1188086) C64455 C64455 Methanococcus jannaschii 2190 -11541909 247677 mj1244 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 50.00;) (le:2171) (re:2497) (di:complement) U67565 U67565 g1591877 Methanococcus jannaschii 2190 -11541909 6500738051 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1244 MJ1244 Methanococcus jannaschii 2190 -11541909

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941071	21988	44144	507	169

Description

5000699143 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1245 MJ1245 Methanococcus jannaschii 2190 -11541910 173959 hypothetical protein mj1245 (cl:conserved hypothetical protein mj1244) (db:pir2.dat) (mp:rev1188762-1188424) D64455 D64455 Methanococcus jannaschii 2190 -11541910 247678 mj1245 m. jannaschii predicted coding region mj1245 (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2509) (re:2847) (di:complement) U67565 U67565 g1591878 Methanococcus jannaschii 2190 -11541910 6500738052 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1245 MJ1245 Methanococcus jannaschii 2190 -11541910

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941074	21989	44145	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941086	21990	44146	390	130

Description

5000699144 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1247 MJ1247 Methanococcus jannaschii 2190 -11541911 173264 hypothetical protein homolog mj1247 (cl:conserved hypothetical protein mj1247) (db:pir2.dat) (mp:for1190147-1190689) F64455 F64455 Methanococcus jannaschii 2190 -11541911 247680 mj1247 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:similar to sp:p42404 pid:710636 pid:1438846) (le:4232) (re:4774) (di:direct) U67565 U67565 g1591880 Methanococcus jannaschii 2190 -11541911 6500738053 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1247 MJ1247 Methanococcus jannaschii 2190 -11541911

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941092	21991	44147	324	107

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941094	21992	44148	642	213

Description

5000699145 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1248 MJ1248 Methanococcus jannaschii 2190 -11541912 173960 hypothetical protein mj1248 (db:pir2.dat) (mp:rev1191186-1190722) G64455 G64455 Methanococcus jannaschii 2190 -11541912 247681 mj1248 m. jannaschii predicted coding region mj1248 (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4807) (re:5271) (di:complement) U67565 U67565 g1591881 Methanococcus jannaschii 2190 -11541912 6500738054 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1248 MJ1248 Methanococcus jannaschii 2190 -11541912

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941099	21993	44149	429	142

Description

5000699146 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1249 MJ1249 Methanococcus jannaschii 2190 -11541913 173961 hypothetical protein mj1249 (db:pir2.dat) (mp:for1191369-1192454) H64455 H64455 Methanococcus jannaschii 2190 -11541913 247682 mj1249 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 59.00;) (le:5454) (re:6539) (di:direct) U67565 U67565 g1591882 Methanococcus jannaschii 2190 -11541913 6500738055 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1249 MJ1249 Methanococcus jannaschii 2190 -11541913

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941103	21994	44150	246	82

Description

5000699147 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1250 MJ1250 Methanococcus jannaschii 2190 -11541914 173962 hypothetical protein mj1250 (cl:hypothetical protein mj1250) (db:pir2.dat) (mp:for1192975-1193736) A64456 A64456 Methanococcus jannaschii 2190 -11541914 247683 mj1250 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 45.73;) (le:7060) (re:7821) (di:direct) U67565 U67565 g1591883 Methanococcus jannaschii 2190 -11541914 6500738056 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1250 MJ1250 Methanococcus jannaschii 2190 -11541914

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941112	21995	44151	258	85

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941113	21996	44152	183	60

Description

5000699149 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1251 MJ1251 Methanococcus jannaschii 2190 -11541915 173265 hypothetical protein homolog mj1251 (db:pir2.dat) (mp:for1194471-1194974) C64456 C64456 Methanococcus jannaschii 2190 -11541915 247685 mj1251 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 107 of 150 of the complete genome.) (nt:similar to pid:726072 percent identity: 37.75;) (le:8556) (re:9059) (di:direct) U67565 U67565 g1591884 Methanococcus jannaschii 2190 -11541915 6500738057 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1251 MJ1251 Methanococcus jannaschii 2190 -11541915

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941117	21997	44153	192	64

Description

5000699150 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1254 MJ1254 Methanococcus jannaschii 2190 -11541916 173963 hypothetical protein mj1254 (db:pir2.dat) (mp:for1195996-1197405) E64456 E64456 Methanococcus jannaschii 2190 -11541916 247687 mj1254 m. jannaschii predicted coding region mj1254 (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:108) (re:1517) (di:direct) U67566 U67566 g1591888 Methanococcus jannaschii 2190 -11541916 6500738058 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1254 MJ1254 Methanococcus jannaschii 2190 -11541916

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941121	21998	44154	699	232

Description

GTC ORF with score 261 to: (or:Homo sapiens) (sr:human) (db:genpept-pri1) (de:human canalicular multispecific organic anion transporter (cmoat),gene, complete cds.) (nt:similar to human multidrug resistance-associated) (le:102) (re:4739) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941140	21999	44155	333	111

Description

5000699151 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1255 MJ1255 Methanococcus jannaschii 2190 -11541917 173964 hypothetical protein mj1255 (db:pir2.dat) (mp:for1197420-1198616) F64456 F64456 Methanococcus jannaschii 2190 -11541917 247688 mj1255 m. jannaschii predicted coding region mj1255 (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1532) (re:2728) (di:direct) U67566 U67566 g1591889 Methanococcus jannaschii 2190 -11541917 6500738059 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1255 MJ1255 Methanococcus jannaschii 2190 -11541917

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941144	22000	44156	651	216

Description

5000699152 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1256 MJ1256 Methanococcus jannaschii 2190 -11541918 173965 conserved hypothetical protein mj1256 (cl:methanococcus jannaschii conserved hypothetical protein mj1256) (db:pir2.dat) (mp:for1198613-1199548) G64456 G64456 Methanococcus jannaschii 2190 -11541918 247689 mj1256 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:similar to sp:p38541 pid:474837 percent identity:) (le:2725) (re:3660) (di:direct) U67566 U67566 g1591890 Methanococcus jannaschii 2190 -11541918 6500738060 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1256 MJ1256 Methanococcus jannaschii 2190 -11541918

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941156	22001	44157	234	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941166	22002	44158	216	71

Description

5000699153 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1257 MJ1257 Methanococcus jannaschii 2190 -11541919 173966 hypothetical protein mj1257 (db:pir2.dat) (mp:for1199545-1200594) H64456 H64456 Methanococcus jannaschii 2190 -11541919 247690 mj1257 m. jannaschii predicted coding region mj1257 (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3657) (re:4706) (di:direct) U67566 U67566 g1591891 Methanococcus jannaschii 2190 -11541919 6500738061 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1257 MJ1257 Methanococcus jannaschii 2190 -11541919

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941167	22003	44159	354	117

Description

5000699154 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1262 MJ1262 Methanococcus jannaschii 2190 -11541920 173967 hypothetical protein mj1262 (db:pir2.dat) (mp:for1204366-1205535) E64457 E64457 Methanococcus jannaschii 2190 -11541920 247695 mj1262 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 108 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 27.90;) (le:8478) (re:9647) (di:direct) U67566 U67566 g1591896 Methanococcus jannaschii 2190 -11541920 6500738062 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1262 MJ1262 Methanococcus jannaschii 2190 -11541920

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941178	22004	44160	267	88

Description

5000699155 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1272 MJ1272 Methanococcus jannaschii 2190 -11541921 173968 hypothetical protein mj1272 (cl:hypothetical protein mj1272) (db:pir2.dat) (mp:for1216147-1216638) G64458 G64458 Methanococcus jannaschii 2190 -11541921 247705 mj1272 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:similar to gb:l42023 sp:p44123 pid:1007056) (le:637) (re:1128) (di:direct) U67568 U67568 g1591908 Methanococcus jannaschii 2190 -11541921 6500738063 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1272 MJ1272 Methanococcus jannaschii 2190 -11541921

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941198	22005	44161	249	83

Description

5000699156 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1273 MJ1273 Methanococcus jannaschii 2190 -11541922 4000708431 mj1273 (de:hypothetical protein mj1273) (db:swissprot) YC73_METJA Q58669 METHANOCOCCUS JANNASCHII 2190 -11541922 173266 hypothetical protein homolog mj1273 (cl:hypothetical protein mj1273) (db:pir2.dat) (mp:for1216638-1217690) H64458 H64458 Methanococcus jannaschii 2190 -11541922 247706 mj1273 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:similar to sp:p25125 pid:581802 pid:1655696 percent) (le:1128) (re:2180) (di:direct) U67568 U67568 g1591909 Methanococcus jannaschii 2190 -11541922 6500738064 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1273 MJ1273 Methanococcus jannaschii 2190 -11541922

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941206	22006	44162	636	212

Description

5000699157 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1278 MJ1278 Methanococcus jannaschii 2190 -11541923 173969 hypothetical protein mj1278 (db:pir2.dat) (mp:rev1223722-1223183) E64459 E64459 Methanococcus jannaschii 2190 -11541923 247711 mj1278 m. jannaschii predicted coding region mj1278 (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7673) (re:8212) (di:complement) U67568 U67568 g1591914 Methanococcus jannaschii 2190 -11541923 6500738065 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1278 MJ1278 Methanococcus jannaschii 2190 -11541923

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941223	22007	44163	432	143

Description

5000699158 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1279 MJ1279 Methanococcus jannaschii 2190 -11541924 173970 hypothetical protein mj1279 (db:pir2.dat) (mp:rev1224280-1223723) F64459 F64459 Methanococcus jannaschii 2190 -11541924 247712 mj1279 m. jannaschii predicted coding region mj1279 (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8213) (re:8770) (di:complement) U67568 U67568 g1591915 Methanococcus jannaschii 2190 -11541924 6500738066 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1279 MJ1279 Methanococcus jannaschii 2190 -11541924

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941225	22008	44164	384	127

Description

5000699159 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1280 MJ1280 Methanococcus jannaschii 2190 -11541925 173971 hypothetical protein mj1280 (db:pir2.dat) (mp:for1224462-1224935) G64459 G64459 Methanococcus jannaschii 2190 -11541925 247713 mj1280 m. jannaschii predicted coding region mj1280 (db:genpept-bct1) (de:methanococcus jannaschii section 110 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8952) (re:9425) (di:direct) U67568 U67568 g1591916 Methanococcus jannaschii 2190 -11541925 6500738067 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1280 MJ1280 Methanococcus jannaschii 2190 -11541925

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941235	22009	44165	471	156

Description

5000699160 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1281 MJ1281 Methanococcus jannaschii 2190 -11541926 173972 hypothetical protein mj1281 (db:pir2.dat) (mp:for1224853-1227999) H64459 H64459 Methanococcus jannaschii 2190 -11541926 6500738068 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1281 MJ1281 Methanococcus jannaschii 2190 -11541926 247714 mju67568 (le:1224853) (re:1227999) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1281 gn:mj1281 le:9343 re:12489 di:direct nt:identified by genemark; putative) U67568 U67568 g1591917 Methanococcus jannaschii 2190 -11541926

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941236	22010	44166	249	83

Description

5000699161 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1282 MJ1282 Methanococcus jannaschii 2190 -11541927 173973 hypothetical protein mj1282 (db:pir2.dat) (mp:for1228716-1229774) A64460 A64460 Methanococcus jannaschii 2190 -11541927 247715 mj1282 m. jannaschii predicted coding region mj1282 (db:genpept-bct1) (de:methanococcus jannaschii section 111 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:569) (re:1627) (di:direct) U67569 U67569 g1591919 Methanococcus jannaschii 2190 -11541927 6500738069 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1282 MJ1282 Methanococcus jannaschii 2190 -11541927

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941240	22011	44167	438	145

Description

5000699162 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1283 MJ1283 Methanococcus jannaschii 2190 -11541928 173974 hypothetical protein mj1283 (db:pir2.dat) (mp:rev1231678-1231016) B64460 B64460 Methanococcus jannaschii 2190 -11541928 247716 mj1283 m. jannaschii predicted coding region mj1283 (db:genpept-bct1) (de:methanococcus jannaschii section 111 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2869) (re:3531) (di:complement) U67569 U67569 g1591920 Methanococcus jannaschii 2190 -11541928 6500738070 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1283 MJ1283 Methanococcus jannaschii 2190 -11541928

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941245	22012	44168	285	94

Description

5000699163 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1284 MJ1284 Methanococcus jannaschii 2190 -11541929 173975 hypothetical protein mj1284 (db:pir2.dat) (mp:rev1232031-1231666) C64460 C64460 Methanococcus jannaschii 2190 -11541929 247717 mj1284 m. jannaschii predicted coding region mj1284 (db:genpept-bct1) (de:methanococcus jannaschii section 111 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3519) (re:3884) (di:complement) U67569 U67569 g1591921 Methanococcus jannaschii 2190 -11541929 6500738071 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1284 MJ1284 Methanococcus jannaschii 2190 -11541929

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941258	22013	44169	444	147

Description

5000699164 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1285 MJ1285 Methanococcus jannaschii 2190 -11541930 173976 hypothetical protein mj1285 (db:pir2.dat) (mp:rev1232582-1232028) D64460 D64460 Methanococcus jannaschii 2190 -11541930 247718 mj1285 m. jannaschii predicted coding region mj1285 (db:genpept-bct1) (de:methanococcus jannaschii section 111 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3881) (re:4435) (di:complement) U67569 U67569 g1591922 Methanococcus jannaschii 2190 -11541930 6500738072 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1285 MJ1285 Methanococcus jannaschii 2190 -11541930

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941260	22014	44170	630	209

Description

5000699165 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1286 MJ1286 Methanococcus jannaschii 2190 -11541931 7500921515 mj1286 (de:hypothetical protein mj1286) (db:swissprot) YC86_METJA Q58682 METHANOCOCCUS JANNASCHII 2190 -11541931 173977 hypothetical protein mj1286 (db:pir2.dat) (mp:rev1234373-1232586) E64460 E64460 Methanococcus jannaschii 2190 -11541931 7500921517 mj1286 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 111 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 26.90;) (le:4439) (re:6226) (di:complement) U67569 U67569 g1591923 Methanococcus jannaschii 2190 -11541931 6500738073 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1286 MJ1286 Methanococcus jannaschii 2190 -11541931 247719 mju67569 (le:1232586) (re:1234373) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1286 gn:mj1286 le:4439 re:6226 di:complement nt:identified by genemark; putative) U67569 U67569 g1591923 Methanococcus jannaschii 2190 -11541931

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941272	22015	44171	198	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941274	22016	44172	429	142

Description

5000699166 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1289 MJ1289 Methanococcus jannaschii 2190 -11541932 173980 hypothetical protein mj1289 (db:pir2.dat) (mp:rev1236780-1236283) H64460 H64460 Methanococcus jannaschii 2190 -11541932 247722 mj1289 m. jannaschii predicted coding region mj1289 (db:genpept-bct1) (de:methanococcus jannaschii section 111 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8136) (re:8633) (di:complement) U67569 U67569 g1591926 Methanococcus jannaschii 2190 -11541932 6500738074 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1289 MJ1289 Methanococcus jannaschii 2190 -11541932

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941278	22017	44173	396	132

Description

GTC ORF with score 380 to: (sr:baker's yeast strain=s288c (ab972)) (db:genpept-pln1) (de:saccharomyces cerevisiae chromosome viii cosmid 9780.) (nt:yhl003c; similar to uog1, hypothetical protein in) (le:1519) (re:2754) (di:complement)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941281	22018	44174	567	188

Description

5000699167 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1290 MJ1290 Methanococcus jannaschii 2190 -11541933 173981 hypothetical protein mj1290 (db:pir2.dat) (mp:rev1237715-1236777) A64461 A64461 Methanococcus jannaschii 2190 -11541933 6500738075 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1290 MJ1290 Methanococcus jannaschii 2190 -11541933 247723 mju67569 (le:1236777) (re:1237715) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1290 gn:mj1290 le:8630 re:9568 di:complement nt:identified by genemark; putative) U67569 U67569 g1591927 Methanococcus jannaschii 2190 -11541933

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941284	22019	44175	576	192

Description

5000699168 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1291 MJ1291 Methanococcus jannaschii 2190 -11541934 173982 hypothetical protein mj1291 (db:pir2.dat) (mp:rev1238450-1237728) B64461 B64461 Methanococcus jannaschii 2190 -11541934 6500738076 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1291 MJ1291 Methanococcus jannaschii 2190 -11541934 247724 mju67569 (le:1237728) (re:1238450) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1291 gn:mj1291 le:9581 re:10303 di:complement nt:identified by genemark; putative) U67569 U67569 g1591928 Methanococcus jannaschii 2190 -11541934

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941292	22020	44176	222	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941294	22021	44177	357	118

Description

5000699169 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1292 MJ1292 Methanococcus jannaschii 2190 -11541935 173983 hypothetical protein mj1292 (db:pir2.dat) (mp:for1238664-1241129) C64461 C64461 Methanococcus jannaschii 2190 -11541935 6500738077 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1292 MJ1292 Methanococcus jannaschii 2190 -11541935 247725 mju67570 (le:1238664) (re:1241129) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1292 gn:mj1292 le:132 re:2597 di:direct nt:identified by genemark; putative) U67570 U67570 g1591930 Methanococcus jannaschii 2190 -11541935

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941300	22022	44178	375	125

Description

5000699170 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1293 MJ1293 Methanococcus jannaschii 2190 -11541936 173984 hypothetical protein mj1293 (db:pir2.dat) (mp:for1241176-1241871) D64461 D64461 Methanococcus jannaschii 2190 -11541936 247726 mj1293 m. jannaschii predicted coding region mj1293 (db:genpept-bct1) (de:methanococcus jannaschii section 112 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:2642) (re:3337) (di:direct) U67570 U67570 g1591931 Methanococcus jannaschii 2190 -11541936 6500738078 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1293 MJ1293 Methanococcus jannaschii 2190 -11541936

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941302	22023	44179	594	197

Description

GTC ORF with score 217 to: (db:genpept-pln1) (ec:2.7.1.25) (de:penicillium chrysogenum adenosine-5'phosphosulfate kinase gene,complete cds.) (nt:gxxxxgk, dxxg atp/gtp motifs and kaxe/agxi/lxxftg) (le:238:301) (re:245:928) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941313	22024	44180	474	157

Description

GTC ORF with score 144 to: (fn:activities of formation of isobutene and) (sr:rhodotorula minuta (strain:ifo1102) dna) (db:genpept-pln1) (de:rhodotorula minuta dna for isobutene-forming enzyme and benzoate4-hydroxylase, complete cds.) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941315	22025	44181	573	191

Description

5000699171 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1295 MJ1295 Methanococcus jannaschii 2190 -11541937 173985 hypothetical protein mj1295 (db:pir2.dat) (mp:rev1243502-1242846) F64461 F64461 Methanococcus jannaschii 2190 -11541937 247728 mj1295 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 112 of 150 of the complete genome.) (nt:similar to gp:1787520 percent identity: 31.95;) (le:4312) (re:4968) (di:complement) U67570 U67570 g1591933 Methanococcus jannaschii 2190 -11541937 6500738079 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1295 MJ1295 Methanococcus jannaschii 2190 -11541937

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941324	22026	44182	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941325	22027	44183	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941327	22028	44184	240	79

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941336	22029	44185	330	109

Description

5000699172 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1301 MJ1301 Methanococcus jannaschii 2190 -11541938 118943 mj1301 (de:hypothetical atp-binding protein mj1301) (db:swissprot) YD01_METJA Q58697 METHANOCOCCUS JANNASCHII 2190 -11541938 173986 hypothetical protein mj1301 (db:pir2.dat) (mp:rev1250122-1248920) D64462 D64462 Methanococcus jannaschii 2190 -11541938 247734 mj1301 m. jannaschii predicted coding region mj1301 (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:157) (re:1359) (di:complement) U67571 U67571 g1592328 Methanococcus jannaschii 2190 -11541938 6500738080 hypothetical protein:hypothetical atp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1301 MJ1301 Methanococcus jannaschii 2190 -11541938

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941343	22030	44186	216	72

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941344	22031	44187	570	189

Description

GTC ORF with score 271 to: (fn:involved in heterokaryon incompatibility) (sr:podospora anserina dna) (db:genpept-vrl) (de:podospora anserina beta transducin-like protein (het-e1) gene,complete cds.) (nt:putative) (le:810:3142) (re:3092:4929) ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941351	22032	44188	549	183

Description

5000699448 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1302 MJ1302 Methanococcus jannaschii 2190 -11541939 173987 conserved hypothetical protein mj1302 (cl:methanococcus jannaschii conserved hypothetical protein mj1302) (db:pir2.dat) (mp:rev1250654-1250148) E64462 E64462 Methanococcus jannaschii 2190 -11541939 247735 mj1302 photosystem i iron-sulfur center 1 isolog (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to percent identity: 0.00; identified by) (le:1385) (re:1891) (di:complement) U67571 U67571 g1591941 Methanococcus jannaschii 2190 -11541939 6500738081 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1302 MJ1302 Methanococcus jannaschii 2190 -11541939

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941352	22033	44189	348	116

Description

5000699175 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1306 MJ1306 Methanococcus jannaschii 2190 -11541940 173990 hypothetical protein mj1306 (cl:hypothetical protein mj1306) (db:pir2.dat) (mp:rev1253302-1253051) A64463 A64463 Methanococcus jannaschii 2190 -11541940 247739 mj1306 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 36.23;) (le:4288) (re:4539) (di:complement) U67571 U67571 g1591945 Methanococcus jannaschii 2190 -11541940 6500738082 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1306 MJ1306 Methanococcus jannaschii 2190 -11541940

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941360	22034	44190	540	179

Description

5000699176 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1307 MJ1307 Methanococcus jannaschii 2190 -11541941 173991 hypothetical protein mj1307 (db:pir2.dat) (mp:rev1254112-1253324) B64463 B64463 Methanococcus jannaschii 2190 -11541941 247740 mj1307 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gp:1652336 percent identity: 36.73;) (le:4561) (re:5349) (di:complement) U67571 U67571 g1591946 Methanococcus jannaschii 2190 -11541941 6500738083 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1307 MJ1307 Methanococcus jannaschii 2190 -11541941

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941367	22035	44191	513	171

Description

5000699177 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1308 MJ1308 Methanococcus jannaschii 2190 -11541942 173992 hypothetical protein mj1308 (db:pir2.dat) (mp:rev1254440-1254114) C64463 C64463 Methanococcus jannaschii 2190 -11541942 247741 mj1308 m. jannaschii predicted coding region mj1308 (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5351) (re:5677) (di:complement) U67571 U67571 g1591947 Methanococcus jannaschii 2190 -11541942 6500738084 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1308 MJ1308 Methanococcus jannaschii 2190 -11541942

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941376	22036	44192	426	141

Description

5000699178 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1310 MJ1310 Methanococcus jannaschii 2190 -11541943 173994 hypothetical protein mj1310 (db:pir2.dat) (mp:rev1256327-1255941) E64463 E64463 Methanococcus jannaschii 2190 -11541943 247743 mj1310 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gp:1652328 percent identity: 34.65;) (le:7178) (re:7564) (di:complement) U67571 U67571 g1591949 Methanococcus jannaschii 2190 -11541943 6500738085 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1310 MJ1310 Methanococcus jannaschii 2190 -11541943

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941379	22037	44193	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941405	22038	44194	273	90

Description

5000699450 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1311 MJ1311 Methanococcus jannaschii 2190 -11541944 118871 mj1311 (de:hypothetical protein mj1311) (db:swissprot) YD11_METJA Q58707 METHANOCOCCUS JANNASCHII 2190 -11541944 173995 hypothetical protein mj1311 (db:pir2.dat) (mp:for1256411-1257292) F64463 F64463 Methanococcus jannaschii 2190 -11541944 247744 mj1311 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to sp:p42419 pid:709989 gb:al009126 percent) (le:7648) (re:8529) (di:direct) U67571 U67571 g1591950 Methanococcus jannaschii 2190 -11541944 6500738086 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1311 MJ1311 Methanococcus jannaschii 2190 -11541944

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941407	22039	44195	546	182

Description

5000699179 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1312 MJ1312 Methanococcus jannaschii 2190 -11541945 5500686503 mj1312 (de:hypothetical protein mj1312) (db:swissprot) YD12_METJA Q58708 METHANOCOCCUS JANNASCHII 2190 -11541945 173996 hypothetical protein mj1312 (db:pir2.dat) (mp:for1257323-1258288) G64463 G64463 Methanococcus jannaschii 2190 -11541945 247745 mj1312 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gp:1653753 percent identity: 33.00;) (le:8560) (re:9525) (di:direct) U67571 U67571 g1591951 Methanococcus jannaschii 2190 -11541945 6500738087 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1312 MJ1312 Methanococcus jannaschii 2190 -11541945

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941415	22040	44196	300	100

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941416	22041	44197	501	167

Description

5000699180 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1313 MJ1313 Methanococcus jannaschii 2190 -11541946 173997 hypothetical protein mj1313 (cl:hypothetical protein ph0354) (db:pir2.dat) (mp:for1258390-1259601) H64463 H64463 Methanococcus jannaschii 2190 -11541946 247746 mj1313 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 55.44;) (le:9627) (re:10838) (di:direct) U67571 U67571 g1591952 Methanococcus jannaschii 2190 -11541946 6500738088 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1313 MJ1313 Methanococcus jannaschii 2190 -11541946

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941425	22042	44198	627	209

Description

5000699181 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1315 MJ1315 Methanococcus jannaschii 2190 -11541947 173998 hypothetical protein mj1315 (db:pir2.dat) (mp:for1260509-1261594) B64464 B64464 Methanococcus jannaschii 2190 -11541947 247748 mj1315 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 31.23;) (le:11746) (re:12831) (di:direct) U67571 U67571 g1591954 Methanococcus jannaschii 2190 -11541947 6500738089 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1315 MJ1315 Methanococcus jannaschii 2190 -11541947

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941432	22043	44199	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941454	22044	44200	558	186

Description

5000699182 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1316 MJ1316 Methanococcus jannaschii 2190 -11541948 173999 hypothetical protein mj1316 (db:pir2.dat) (mp:for1261596-1261838) C64464 C64464 Methanococcus jannaschii 2190 -11541948 247749 mj1316 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 38.46;) (le:12833) (re:13075) (di:direct) U67571 U67571 g1591955 Methanococcus jannaschii 2190 -11541948 6500738090 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1316 MJ1316 Methanococcus jannaschii 2190 -11541948

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941456	22045	44201	456	152

Description

5000698370 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1317 MJ1317 Methanococcus jannaschii 2190 -11541949 174000 hypothetical protein mj1317 (db:pir2.dat) (mp:rev1263017-1261821) D64464 D64464 Methanococcus jannaschii 2190 -11541949 247750 mj1317 hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gp:1449355 percent identity: 24.14;) (le:13058) (re:14254) (di:complement) U67571 U67571 g1591956 Methanococcus jannaschii 2190 -11541949 6500738091 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1317 MJ1317 Methanococcus jannaschii 2190 -11541949

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941457	22046	44202	480	160

Description

5000699183 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1318 MJ1318 Methanococcus jannaschii 2190 -11541950 174001 hypothetical protein mj1318 (db:pir2.dat) (mp:rev1264870-1263062) E64464 E64464 Methanococcus jannaschii 2190 -11541950 247751 mj1318 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 113 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 37.82;) (le:14299) (re:16107) (di:complement) U67571 U67571 g1591957 Methanococcus jannaschii 2190 -11541950 6500738092 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1318 MJ1318 Methanococcus jannaschii 2190 -11541950

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941470	22047	44203	252	83

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941471	22048	44204	339	113

Description

5000699184 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1320 MJ1320 Methanococcus jannaschii 2190 -11541951 174002 hypothetical protein mj1320 (db:pir2.dat) (mp:rev1268196-1267801) G64464 G64464 Methanococcus jannaschii 2190 -11541951 247753 mj1320 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 114 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 35.04;) (le:2910) (re:3305) (di:complement) U67572 U67572 g1591960 Methanococcus jannaschii 2190 -11541951 6500738093 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1320 MJ1320 Methanococcus jannaschii 2190 -11541951

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941481	22049	44205	234	78

Description

5000699185 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1321 MJ1321 Methanococcus jannaschii 2190 -11541952 174003 hypothetical protein mj1321 (db:pir2.dat) (mp:rev1270358-1268217) H64464 H64464 Methanococcus jannaschii 2190 -11541952 247754 mj1321 m. jannaschii predicted coding region mj1321 (db:genpept-bct1) (de:methanococcus jannaschii section 114 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3326) (re:5467) (di:complement) U67572 U67572 g1591961 Methanococcus jannaschii 2190 -11541952 6500738094 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1321 MJ1321 Methanococcus jannaschii 2190 -11541952

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941482	22050	44206	633	211

Description

5000698407 gtp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1326 MJ1326 Methanococcus jannaschii 2190 -11541953 173157 gtp-binding protein drg homolog (cl:gtp-binding protein drg:translation elongation factor tu homology) (db:pir1.dat) (mp:for1275899-1277074) E64465 E64465 Methanococcus jannaschii 2190 -11541953 247759 mj1326 gtp-binding protein:member of gtp1/obg-family (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:similar to sp:p17103 pid:43450 percent identity:) (le:564) (re:1739) (di:direct) U67573 U67573 g1591967 Methanococcus jannaschii 2190 -11541953 6500738095 gtp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1326 MJ1326 Methanococcus jannaschii 2190 -11541953

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941484	22051	44207	372	124

Description

5000699186 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1327 MJ1327 Methanococcus jannaschii 2190 -11541954 174007 hypothetical protein mj1327 (db:pir2.dat) (mp:for1277083-1277820) F64465 F64465 Methanococcus jannaschii 2190 -11541954 247760 mj1327 m. jannaschii predicted coding region mj1327 (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:invalid gene; identified by genemark; putative) (le:1748) (re:2485) (di:direct) U67573 U67573 g1591968 Methanococcus jannaschii 2190 -11541954 6500738096 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1327 MJ1327 Methanococcus jannaschii 2190 -11541954

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941485	22052	44208	633	210

Description

5000699187 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1330 MJ1330 Methanococcus jannaschii 2190 -11541955 174008 hypothetical protein mj1330 (db:pir2.dat) (mp:for1280414-1280797) A64466 A64466 Methanococcus jannaschii 2190 -11541955 6500738097 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1330 MJ1330 Methanococcus jannaschii 2190 -11541955 247763 mju67573 (le:1280414) (re:1280797) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1330 gn:mj1330 le:5079 re:5462 di:direct nt:identified by genemark; putative) U67573 U67573 g1591971 Methanococcus jannaschii 2190 -11541955

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941486	22053	44209	186	61

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941488	22054	44210	429	142

Description

5000699188 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1331 MJ1331 Methanococcus jannaschii 2190 -11541956 5500686507 mj1331 (de:hypothetical protein mj1331) (db:swissprot) YD31_METJA Q58727 METHANOCOCCUS JANNASCHII 2190 -11541956 174009 hypothetical protein mj1331 (db:pir2.dat) (mp:rev1281234-1280800) B64466 B64466 Methanococcus jannaschii 2190 -11541956 247764 mj1331 m. jannaschii predicted coding region mj1331 (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5465) (re:5899) (di:complement) U67573 U67573 g1591972 Methanococcus jannaschii 2190 -11541956 6500738098 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1331 MJ1331 Methanococcus jannaschii 2190 -11541956

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941492	22055	44211	237	79

Description

GTC ORF with score 99 to: (sr:thale cress) (db:genpept-pln1) (de:arabidopsis thaliana chromosome ii bac t20b5 genomic sequence,complete sequence.) (nt:hypothetical protein) (le:4532:5217:5438) (re:5166:5411:5956) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941498	22056	44212	312	103

Description

5000698408 gtp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1332 MJ1332 Methanococcus jannaschii 2190 -11541957 173156 gtp-binding protein (cl:methanococcus jannaschii gtp-binding protein) (db:pir2.dat) (mp:rev1282424-1281243) C64466 C64466 Methanococcus jannaschii 2190 -11541957 247765 mj1332 gtp-binding protein:member of gtp1/obg-family (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:similar to sp:p42942 pid:1165215 pid:1323377) (le:5908) (re:7089) (di:complement) U67573 U67573 g1591973 Methanococcus jannaschii 2190 -11541957 6500738099 gtp-binding protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1332 MJ1332 Methanococcus jannaschii 2190 -11541957

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941501	22057	44213	507	169

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941508	22058	44214	630	210

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941511	22059	44215	642	214

Description

5000699189 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1333 MJ1333 Methanococcus jannaschii 2190 -11541958 174010 hypothetical protein mj1333 (db:pir2.dat) (mp:for1282517-1282771) D64466 D64466 Methanococcus jannaschii 2190 -11541958 247766 mj1333 m. jannaschii predicted coding region mj1333 (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7182) (re:7436) (di:direct) U67573 U67573 g1591974 Methanococcus jannaschii 2190 -11541958 6500738100 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1333 MJ1333 Methanococcus jannaschii 2190 -11541958

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941515	22060	44216	252	84

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941589	22061	44217	258	85

Description

5000699191 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1336 MJ1336 Methanococcus jannaschii 2190 -11541959 174011 hypothetical protein mj1336 (db:pir2.dat) (mp:for1284841-1285287) G64466 G64466 Methanococcus jannaschii 2190 -11541959 247769 mj1336 m. jannaschii predicted coding region mj1336 (db:genpept-bct1) (de:methanococcus jannaschii section 115 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9506) (re:9952) (di:direct) U67573 U67573 g1591977 Methanococcus jannaschii 2190 -11541959 6500738101 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1336 MJ1336 Methanococcus jannaschii 2190 -11541959

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941591	22062	44218	462	154

Description

5000699192 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1337 MJ1337 Methanococcus jannaschii 2190 -11541960 174012 hypothetical protein mj1337 (db:pir2.dat) (mp:for1285526-1286221) H64466 H64466 Methanococcus jannaschii 2190 -11541960 247770 mj1337 m. jannaschii predicted coding region mj1337 (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:145) (re:840) (di:direct) U67574 U67574 g1592330 Methanococcus jannaschii 2190 -11541960 6500738102 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1337 MJ1337 Methanococcus jannaschii 2190 -11541960

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941600	22063	44219	234	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941609	22064	44220	717	239

Description

5000699193 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1339 MJ1339 Methanococcus jannaschii 2190 -11541961 174013 conserved hypothetical protein mj1339 (cl:methanococcus jannaschii conserved hypothetical protein mj1339:translation elongation factor tu homology) (db:pir2.dat) (mp:for1287391-1287855) B64467 B64467 Methanococcus jannaschii 2190 -11541961 247772 mj1339 protein with atp/gtp-binding site (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:similar to sp:p04766 gb:x04399 pid:39954 percent) (le:2010) (re:2474) (di:direct) U67574 U67574 g1591981 Methanococcus jannaschii 2190 -11541961 6500738103 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1339 MJ1339 Methanococcus jannaschii 2190 -11541961

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941611	22065	44221	357	118

Description

5000699194 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1340 MJ1340 Methanococcus jannaschii 2190 -11541962 1500686310 mj1340 (de:hypothetical protein mj1340) (db:swissprot) YD40_METJA Q58736 METHANOCOCCUS JANNASCHII 2190 -11541962 174014 conserved hypothetical protein mj1340 (cl:methanococcus jannaschii conserved hypothetical protein mj0714) (db:pir2.dat) (mp:for1287927-1288271) C64467 C64467 Methanococcus jannaschii 2190 -11541962 247773 mj1340 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 61.40;) (le:2546) (re:2890) (di:direct) U67574 U67574 g1591982 Methanococcus jannaschii 2190 -11541962 6500738104 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1340 MJ1340 Methanococcus jannaschii 2190 -11541962

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941618	22066	44222	231	77

Description

5000699195 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1341 MJ1341 Methanococcus jannaschii 2190 -11541963 174015 hypothetical protein mj1341 (db:pir2.dat) (mp:rev1289223-1288285) D64467 D64467 Methanococcus jannaschii 2190 -11541963 247774 mj1341 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 33.06;) (le:2904) (re:3842) (di:complement) U67574 U67574 g1591983 Methanococcus jannaschii 2190 -11541963 6500738105 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1341 MJ1341 Methanococcus jannaschii 2190 -11541963

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941621	22067	44223	948	316

Description

5000699196 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1342 MJ1342 Methanococcus jannaschii 2190 -11541964 174016 hypothetical protein mj1342 (db:pir2.dat) (mp:for1289459-1289803) E64467 E64467 Methanococcus jannaschii 2190 -11541964 247775 mj1342 m. jannaschii predicted coding region mj1342 (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4078) (re:4422) (di:direct) U67574 U67574 g1591984 Methanococcus jannaschii 2190 -11541964 6500738106 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1342 MJ1342 Methanococcus jannaschii 2190 -11541964

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941625	22068	44224	219	73

Description

5000699198 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1348 MJ1348 Methanococcus jannaschii 2190 -11541965 174018 hypothetical protein mj1348 (db:pir2.dat) (mp:for1295121-1296131) C64468 C64468 Methanococcus jannaschii 2190 -11541965 247781 mj1348 m. jannaschii predicted coding region mj1348 (db:genpept-bct1) (de:methanococcus jannaschii section 116 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9740) (re:10750) (di:direct) U67574 U67574 g1591990 Methanococcus jannaschii 2190 -11541965 6500738107 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1348 MJ1348 Methanococcus jannaschii 2190 -11541965

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941627	22069	44225	399	132

Description

5000699199 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1354 MJ1354 Methanococcus jannaschii 2190 -11541966 174020 hypothetical protein mj1354 (db:pir2.dat) (mp:for1304340-1304777) A64469 A64469 Methanococcus jannaschii 2190 -11541966 247787 mj1354 m. jannaschii predicted coding region mj1354 (db:genpept-bct1) (de:methanococcus jannaschii section 117 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:7029) (re:7466) (di:direct) U67575 U67575 g1591997 Methanococcus jannaschii 2190 -11541966 6500738108 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1354 MJ1354 Methanococcus jannaschii 2190 -11541966

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941634	22070	44226	468	155

Description

GTC ORF with score 372 to: (sr:schizosaccharomyces pombe (strain:pr745) cdna to mrna) (db:genpept-pln1) (de:schizosaccharomyces pombe mrna, partial cds, clone: sy 0438.) (nt:unnamed protein product) (le:141) (re:1340) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941641	22071	44227	906	301

Description

5000699454 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1355 MJ1355 Methanococcus jannaschii 2190 -11541967 174021 hypothetical protein mj1355 (db:pir2.dat) (mp:for1304821-1306536) B64469 B64469 Methanococcus jannaschii 2190 -11541967 247788 mj1355 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 117 of 150 of the complete genome.) (nt:similar to percent identity: 55.84; identified by) (le:7510) (re:9225) (di:direct) U67575 U67575 g1591998 Methanococcus jannaschii 2190 -11541967 6500738109 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1355 MJ1355 Methanococcus jannaschii 2190 -11541967

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941643	22072	44228	597	198

Description

5000699200 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1356 MJ1356 Methanococcus jannaschii 2190 -11541968 174022 hypothetical protein mj1356 (db:pir2.dat) (mp:for1306731-1307300) C64469 C64469 Methanococcus jannaschii 2190 -11541968 247789 mj1356 m. jannaschii predicted coding region mj1356 (db:genpept-bct1) (de:methanococcus jannaschii section 117 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9420) (re:9989) (di:direct) U67575 U67575 g1591999 Methanococcus jannaschii 2190 -11541968 6500738110 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1356 MJ1356 Methanococcus jannaschii 2190 -11541968

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941649	22073	44229	513	171

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941662	22074	44230	549	183

Description

5000699201 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1358 MJ1358 Methanococcus jannaschii 2190 -11541969 174023 hypothetical protein mj1358 (db:pir2.dat) (mp:rev1309105-1308647) E64469 E64469 Methanococcus jannaschii 2190 -11541969 6500738111 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1358 MJ1358 Methanococcus jannaschii 2190 -11541969 247791 mju67576 (le:1308647) (re:1309105) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1358 gn:mj1358 le:186 re:644 di:complement nt:identified by genemark; putative) U67576 U67576 g1592002 Methanococcus jannaschii 2190 -11541969

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941679	22075	44231	237	78

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941681	22076	44232	483	161

Description

5000699202 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1359 MJ1359 Methanococcus jannaschii 2190 -11541970 174024 hypothetical protein mj1359 (cl:hypothetical protein mj1359) (db:pir2.dat) (mp:rev1309891-1309163) F64469 F64469 Methanococcus jannaschii 2190 -11541970 247792 mj1359 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 118 of 150 of the complete genome.) (nt:similar to gp:1653852 percent identity: 35.56;) (le:702) (re:1430) (di:complement) U67576 U67576 g1592003 Methanococcus jannaschii 2190 -11541970 6500738112 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1359 MJ1359 Methanococcus jannaschii 2190 -11541970

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941684	22077	44233	420	139

Description

GTC ORF with score 200 to: (fn:involved in production of the virulence factor) (db:genpept-pln1) (de:cochliobolus heterostrophus polyketide synthase (pks1) gene,complete cds.) (le:1324:1599:2141:2703) (re:1524:2083:2661:3353) (di:directjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941688	22078	44234	192	64

Description

5000699203 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1360 MJ1360 Methanococcus jannaschii 2190 -11541971 174025 hypothetical protein mj1360 (db:pir2.dat) (mp:rev1310251-1309952) G64469 G64469 Methanococcus jannaschii 2190 -11541971 247793 mj1360 m. jannaschii predicted coding region mj1360 (db:genpept-bct1) (de:methanococcus jannaschii section 118 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1491) (re:1790) (di:complement) U67576 U67576 g1592004 Methanococcus jannaschii 2190 -11541971 6500738113 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1360 MJ1360 Methanococcus jannaschii 2190 -11541971

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941689	22079	44235	204	68

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941698	22080	44236	651	217

Description

5000699204 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1361 MJ1361 Methanococcus jannaschii 2190 -11541972 174026 conserved hypothetical protein mj1361 (cl:methanococcus jannaschii conserved hypothetical protein mj1361) (db:pir2.dat) (mp:for1310357-1311235) H64469 H64469 Methanococcus jannaschii 2190 -11541972 247794 mj1361 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 118 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 41.18;) (le:1896) (re:2774) (di:direct) U67576 U67576 g1592005 Methanococcus jannaschii 2190 -11541972 6500738114 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1361 MJ1361 Methanococcus jannaschii 2190 -11541972

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941699	22081	44237	543	181

Description

5000699205 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1364 MJ1364 Methanococcus jannaschii 2190 -11541973 4000709974 mj1364 (de:hypothetical protein mj1364) (db:swissprot) YD64_METJA Q58759 METHANOCOCCUS JANNASCHII 2190 -11541973 174027 hypothetical protein mj1364 (db:pir2.dat) (mp:for1313161-1314624) C64470 C64470 Methanococcus jannaschii 2190 -11541973 247797 mj1364 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 118 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 26.10;) (le:4700) (re:6163) (di:direct) U67576 U67576 g1592008 Methanococcus jannaschii 2190 -11541973 6500738115 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1364 MJ1364 Methanococcus jannaschii 2190 -11541973

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941705	22082	44238	579	193

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941709	22083	44239	543	181

Description

5000699206 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1369 MJ1369 Methanococcus jannaschii 2190 -11541974 174028 hypothetical protein mj1369 (db:pir2.dat) (mp:for1318566-1319033) H64470 H64470 Methanococcus jannaschii 2190 -11541974 247802 mj1369 m. jannaschii predicted coding region mj1369 (db:genpept-bct1) (de:methanococcus jannaschii section 119 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:87) (re:554) (di:direct) U67577 U67577 g1592014 Methanococcus jannaschii 2190 -11541974 6500738116 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1369 MJ1369 Methanococcus jannaschii 2190 -11541974

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941715	22084	44240	486	161

Description

5000699207 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1370 MJ1370 Methanococcus jannaschii 2190 -11541975 174029 hypothetical protein mj1370 (db:pir2.dat) (mp:for1319063-1320049) A64471 A64471 Methanococcus jannaschii 2190 -11541975 247803 mj1370 m. jannaschii predicted coding region mj1370 (db:genpept-bct1) (de:methanococcus jannaschii section 119 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:584) (re:1570) (di:direct) U67577 U67577 g1592015 Methanococcus jannaschii 2190 -11541975 6500738117 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1370 MJ1370 Methanococcus jannaschii 2190 -11541975

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941717	22085	44241	543	180

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941729	22086	44242	342	114

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941734	22087	44243	390	130

Description

5000699208 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1371 MJ1371 Methanococcus jannaschii 2190 -11541976 174030 hypothetical protein mj1371 (db:pir2.dat) (mp:for1320046-1320780) B64471 B64471 Methanococcus jannaschii 2190 -11541976 247804 mj1371 methlytransferase (db:genpept-bct1) (de:methanococcus jannaschii section 119 of 150 of the complete genome.) (nt:similar to gp:2437836 percent identity: 39.09;) (le:1567) (re:2301) (di:direct) U67577 U67577 g1592016 Methanococcus jannaschii 2190 -11541976 6500738118 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1371 MJ1371 Methanococcus jannaschii 2190 -11541976

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941735	22088	44244	390	129

Description

5000699209 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1372 MJ1372 Methanococcus jannaschii 2190 -11541977 121793 mj1372 (de:hypothetical protein mj1372) (db:swissprot) YD72_METJA Q58767 METHANOCOCCUS JANNASCHII 2190 -11541977 173200 hypothetical protein hi0920 homolog (cl:conserved hypothetical protein ybr002c) (db:pir2.dat) (mp:for1320764-1321606) C64471 C64471 Methanococcus jannaschii 2190 -11541977 247805 mj1372 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 119 of 150 of the complete genome.) (nt:similar to gb:142023 sp:p44938 pid:1006041) (le:2285) (re:3127) (di:direct) U67577 U67577 g1592017 Methanococcus jannaschii 2190 -11541977 6500738119 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1372 MJ1372 Methanococcus jannaschii 2190 -11541977

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941736	22089	44245	435	144

Description

5000699210 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1373 MJ1373 Methanococcus jannaschii 2190 -11541978 174031 hypothetical protein mj1373 (db:pir2.dat) (mp:for1321603-1322091) D64471 D64471 Methanococcus jannaschii 2190 -11541978 247806 mj1373 m. jannaschii predicted coding region mj1373 (db:genpept-bct1) (de:methanococcus jannaschii section 119 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3124) (re:3612) (di:direct) U67577 U67577 g1592018 Methanococcus jannaschii 2190 -11541978 6500738120 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1373 MJ1373 Methanococcus jannaschii 2190 -11541978

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941738	22090	44246	357	119

Description

5000699211 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1374 MJ1374 Methanococcus jannaschii 2190 -11541979 174032 hypothetical protein mj1374 (cl:hypothetical protein mj1374) (db:pir2.dat) (mp:for1322159-1322959) E64471 E64471 Methanococcus jannaschii 2190 -11541979 247807 mj1374 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 119 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 42.73;) (le:3680) (re:4480) (di:direct) U67577 U67577 g1592019 Methanococcus jannaschii 2190 -11541979 6500738121 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1374 MJ1374 Methanococcus jannaschii 2190 -11541979

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941753	22091	44247	240	80

Description

5000699212 sp:p37555:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1375 MJ1375 Methanococcus jannaschii 2190 -11541980 173269 hypothetical protein homolog mj1375 (cl:hypothetical protein mj1375) (db:pir2.dat) (mp:rev1324199-1322952) F64471 F64471 Methanococcus jannaschii 2190 -11541980 6500738122 sp:p37555:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1375 MJ1375 Methanococcus jannaschii 2190 -11541980 247808 mju67577 (le:1322952) (re:1324199) (di:direct) (de:or:methanococcus jannaschii pn:hypothetical protein (p37555) gn:mj1375 le:4473 re:5720 di:complement nt:similar to p37555 percent identity: 23.6;) U67577 U67577 g1592020 Methanococcus jannaschii 2190 -11541980

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941754	22092	44248	321	106

Description

5000699215 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJECL36 MJECL36 Methanococcus jannaschii 2190 -11541981 118874 mj1382 (de:hypothetical protein mj1382) (db:swissprot) YD82_METJA Q58777 METHANOCOCCUS JANNASCHII 2190 -11541981 174035 hypothetical protein mj1382 (db:pir2.dat) (mp:rev1331475-1331035) E64472 E64472 Methanococcus jannaschii 2190 -11541981 247815 mj1382 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 70.83;) (le:2633) (re:3073) (di:complement) U67578 U67578 g1592028 Methanococcus jannaschii 2190 -11541981 6500738123 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJECL36 MJECL36 Methanococcus jannaschii 2190 -11541981

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941767	22093	44249	471	156

Description

5000699216 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1383 MJ1383 Methanococcus jannaschii 2190 -11541982 5500686513 mj1383 (de:hypothetical protein mj1383 precursor) (db:swissprot) YD83_METJA Q58778 METHANOCOCCUS JANNASCHII 2190 -11541982 174036 hypothetical protein mj1383 (cl:conserved hypothetical protein mj0761) (db:pir2.dat) (mp:rev1332366-1331596) F64472 F64472 Methanococcus jannaschii 2190 -11541982 247816 mj1383 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 42.44;) (le:3194) (re:3964) (di:complement) U67578 U67578 g1592029 Methanococcus jannaschii 2190 -11541982 6500738124 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1383 MJ1383 Methanococcus jannaschii 2190 -11541982

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941771	22094	44250	588	195

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941774	22095	44251	834	278

Description

5000699217 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1384 MJ1384 Methanococcus jannaschii 2190 -11541983 174037 hypothetical protein mj1384 (cl:methanobacterium thermoautotrophicum nadph-oxidoreductase) (db:pir2.dat) (mp:rev1333191-1332595) G64472 G64472 Methanococcus jannaschii 2190 -11541983 247817 mj1384 nadh oxidase (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 43.64;) (le:4193) (re:4789) (di:complement) U67578 U67578 g1592030 Methanococcus jannaschii 2190 -11541983 6500738125 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1384 MJ1384 Methanococcus jannaschii 2190 -11541983

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941783	22096	44252	267	88

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941797	22097	44253	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941798	22098	44254	327	109

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941817	22099	44255	195	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941820	22100	44256	852	284

Description

5000699218 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1385 MJ1385 Methanococcus jannaschii 2190 -11541984 174038 hypothetical protein mj1385 (db:pir2.dat) (mp:rev1333743-1333204) H64472 H64472 Methanococcus jannaschii 2190 -11541984 247818 mj1385 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 60.47;) (le:4802) (re:5341) (di:complement) U67578 U67578 g1592031 Methanococcus jannaschii 2190 -11541984 6500738126 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1385 MJ1385 Methanococcus jannaschii 2190 -11541984

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941824	22101	44257	717	238

Description

5000699219 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1386 MJ1386 Methanococcus jannaschii 2190 -11541985 174039 hypothetical protein mj1386 (db:pir2.dat) (mp:for1333789-1334013) A64473 A64473 Methanococcus jannaschii 2190 -11541985 247819 mj1386 m. jannaschii predicted coding region mj1386 (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:5387) (re:5611) (di:direct) U67578 U67578 g1592032 Methanococcus jannaschii 2190 -11541985 6500738127 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1386 MJ1386 Methanococcus jannaschii 2190 -11541985

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941826	22102	44258	624	208

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941835	22103	44259	219	72

Description

5000699220 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1387 MJ1387 Methanococcus jannaschii 2190 -11541986 174040 hypothetical protein mj1387 (db:pir2.dat) (mp:rev1335435-1334296) B64473 B64473 Methanococcus jannaschii 2190 -11541986 247820 mj1387 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:similar to pid:1651806 percent identity: 33.88;) (le:5894) (re:7033) (di:complement) U67578 U67578 g1592033 Methanococcus jannaschii 2190 -11541986 6500738128 conserved hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1387 MJ1387 Methanococcus jannaschii 2190 -11541986

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941842	22104	44260	225	74

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941855	22105	44261	657	218

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941867	22106	44262	402	133

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941875	22107	44263	462	153

Description

5000699221 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1389 MJ1389 Methanococcus jannaschii 2190 -11541987 5500686514 mj1389 (de:hypothetical protein mj1389) (db:swissprot) YD89_METJA Q58784 METHANOCOCCUS JANNASCHII 2190 -11541987 174041 hypothetical protein mj1389 (db:pir2.dat) (mp:rev1337815-1337411) D64473 D64473 Methanococcus jannaschii 2190 -11541987 247822 mj1389 m. jannaschii predicted coding region mj1389 (db:genpept-bct1) (de:methanococcus jannaschii section 120 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9009) (re:9413) (di:complement) U67578 U67578 g1592035 Methanococcus jannaschii 2190 -11541987 6500738129 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1389 MJ1389 Methanococcus jannaschii 2190 -11541987

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941881	22108	44264	609	202

Description

GTC ORF with score 258 to: (sr:caenorhabditis elegans strain=bristol n2) (db:genpept-inv) (de:caenorhabditis elegans cosmid c42c1.) (nt:similar to mitochondrial carrier protein) (le:15637:16483:17914) (re:15800:17158:17951) (di:complementjoin)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941891	22109	44265	249	82

Description

5000699222 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1393 MJ1393 Methanococcus jannaschii 2190 -11541988 7500922129 mj1393 (de:hypothetical protein mj1393) (db:swissprot) YD93_METJA Q58788 METHANOCOCCUS JANNASCHII 2190 -11541988 174042 hypothetical protein mj1393 (db:pir2.dat) (mp:for1341981-1343807) H64473 H64473 Methanococcus jannaschii 2190 -11541988 7500922131 mj1393 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 121 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 34.49;) (le:3573) (re:5399) (di:direct) U67579 U67579 g1592040 Methanococcus jannaschii 2190 -11541988 6500738130 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1393 MJ1393 Methanococcus jannaschii 2190 -11541988 247826 mju67579 (le:1341981) (re:1343807) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1393 gn:mj1393 le:3573 re:5399 di:direct nt:identified by genemark; putative) U67579 U67579 g1592040 Methanococcus jannaschii 2190 -11541988

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941893	22110	44266	288	96

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941904	22111	44267	417	139

Description

5000699223 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1394 MJ1394 Methanococcus jannaschii 2190 -11541989 7500922132 mj1394 (de:hypothetical protein mj1394) (db:swissprot) YD94_METJA Q58789 METHANOCOCCUS JANNASCHII 2190 -11541989 174043 hypothetical protein mj1394 (db:pir2.dat) (mp:for1343894-1346857) A64474 A64474 Methanococcus jannaschii 2190 -11541989 7500922134 mj1394 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 121 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent ident: 37.86;) (le:5486) (re:8449) (di:direct) U67579 U67579 g1592041 Methanococcus jannaschii 2190 -11541989 6500738131 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1394 MJ1394 Methanococcus jannaschii 2190 -11541989 247827 mju67579 (le:1343894) (re:1346857) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1394 gn:mj1394 le:5486 re:8449 di:direct nt:identified by genemark; putative) U67579 U67579 g1592041 Methanococcus jannaschii 2190 -11541989

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941912	22112	44268	840	279

Description

5000699224 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1395 MJ1395 Methanococcus jannaschii 2190 -11541990 174044 hypothetical protein mj1395 (db:pir2.dat) (mp:for1347178-1347576) B64474 B64474 Methanococcus jannaschii 2190 -11541990 247828 mj1395 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 121 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 47.15;) (le:8770) (re:9168) (di:direct) U67579 U67579 g1592042 Methanococcus jannaschii 2190 -11541990 6500738132 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1395 MJ1395 Methanococcus jannaschii 2190 -11541990

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941927	22113	44269	342	114

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941935	22114	44270	414	137

Description

GTC ORF with score 130 to: (db:genpept) (de:pseuodmonas stutzeri transposase-like protein tnpa3 (tnpa3),salicylate hydroxylase (nahw), transposase-like protein (tnpa2) andregulatory protein (nahr) genes; and naphthalene degradationlower-pathway gene ...

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941936	22115	44271	201	67

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941942	22116	44272	312	103

Description

5000699225 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1396 MJ1396 Methanococcus jannaschii 2190 -11541991 174045 hypothetical protein mj1396 (db:pir2.dat) (mp:for1347709-1356393) C64474 C64474 Methanococcus jannaschii 2190 -11541991 247829 mj1396 m. jannaschii predicted coding region mj1396 (db:genpept-bct1) (de:methanococcus jannaschii section 121 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9301) (re:17985) (di:direct) U67579 U67579 g1592043 Methanococcus jannaschii 2190 -11541991 6500738133 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1396 MJ1396 Methanococcus jannaschii 2190 -11541991

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941950	22117	44273	189	62

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941956	22118	44274	678	225

Description

5000699226 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1397 MJ1397 Methanococcus jannaschii 2190 -11541992 174046 hypothetical protein mj1397 (db:pir2.dat) (mp:for1356450-1357910) D64474 D64474 Methanococcus jannaschii 2190 -11541992 247830 mj1397 m. jannaschii predicted coding region mj1397 (db:genpept-bct1) (de:methanococcus jannaschii section 122 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:54) (re:1514) (di:direct) U67580 U67580 g1592045 Methanococcus jannaschii 2190 -11541992 6500738134 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1397 MJ1397 Methanococcus jannaschii 2190 -11541992

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941962	22119	44275	561	187

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941966	22120	44276	561	187

Description

5000699227 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1398 MJ1398 Methanococcus jannaschii 2190 -11541993 174047 hypothetical protein mj1398 (db:pir2.dat) (mp:for1358185-1359360) E64474 E64474 Methanococcus jannaschii 2190 -11541993 247831 mj1398 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 122 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 36.07;) (le:1789) (re:2964) (di:direct) U67580 U67580 g1592046 Methanococcus jannaschii 2190 -11541993 6500738135 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1398 MJ1398 Methanococcus jannaschii 2190 -11541993

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941982	22121	44277	546	182

Description

GTC ORF with score 273 to: (db:genpept-inv) (de:scaptodrosophila lebanonensis amd protein (amd) gene, partial cds;cs protein (cs) gene, complete cds; and dopa decarboxylase (ddc)gene, partial cds.) (nt:ddc) (le:4578) (re:>5789) (di:complement)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941984	22122	44278	354	117

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941990	22123	44279	189	63

Description

5000699228 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1399 MJ1399 Methanococcus jannaschii 2190 -11541994 174048 hypothetical protein mj1399 (cl:hypothetical protein mj1399) (db:pir2.dat) (mp:rev1359931-1359338) F64474 F64474 Methanococcus jannaschii 2190 -11541994 247832 mj1399 alignment in (db:genpept-bct1) (de:methanococcus jannaschii section 122 of 150 of the complete genome.) (nt:similar to percent identity: 0.00; identified by) (le:2942) (re:3535) (di:complement) U67580 U67580 g1592047 Methanococcus jannaschii 2190 -11541994 6500738136 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1399 MJ1399 Methanococcus jannaschii 2190 -11541994

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501941992	22124	44280	288	95

Description

5000699229 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1400 MJ1400 Methanococcus jannaschii 2190 -11541995 4000708433 mj1400 (de:hypothetical protein mj1400) (db:swissprot) YE00_METJA Q58795 METHANOCOCCUS JANNASCHII 2190 -11541995 174049 hypothetical protein mj1400 (db:pir2.dat) (mp:rev1360144-1359941) G64474 G64474 Methanococcus jannaschii 2190 -11541995 247833 mj1400 m. jannaschii predicted coding region mj1400 (db:genpept-bct1) (de:methanococcus jannaschii section 122 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:3545) (re:3748) (di:complement) U67580 U67580 g1592048 Methanococcus jannaschii 2190 -11541995 6500738137 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1400 MJ1400 Methanococcus jannaschii 2190 -11541995

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942002	22125	44281	750	249

Description

5000699231 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1402 MJ1402 Methanococcus jannaschii 2190 -11541996 174051 hypothetical protein mj1402 (db:pir2.dat) (mp:rev1364359-1363319) A64475 A64475 Methanococcus jannaschii 2190 -11541996 247835 mj1402 m. jannaschii predicted coding region mj1402 (db:genpept-bct1) (de:methanococcus jannaschii section 122 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:6923) (re:7963) (di:complement) U67580 U67580 g1592050 Methanococcus jannaschii 2190 -11541996 6500738138 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1402 MJ1402 Methanococcus jannaschii 2190 -11541996

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942003	22126	44282	231	77

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942006	22127	44283	300	99

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942011	22128	44284	471	157

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942017	22129	44285	453	150

Description

5000699232 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1403 MJ1403 Methanococcus jannaschii 2190 -11541997 174052 hypothetical protein mj1403 (db:pir2.dat) (mp:rev1365796-1364672) B64475 B64475 Methanococcus jannaschii 2190 -11541997 247836 mj1403 m. jannaschii predicted coding region mj1403 (db:genpept-bct1) (de:methanococcus jannaschii section 122 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:8276) (re:9400) (di:complement) U67580 U67580 g1592051 Methanococcus jannaschii 2190 -11541997 6500738139 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1403 MJ1403 Methanococcus jannaschii 2190 -11541997

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942024	22130	44286	669	222

Description

5000699233 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1404 MJ1404 Methanococcus jannaschii 2190 -11541998 118875 mj1404 (de:hypothetical protein mj1404) (db:swissprot) YE04_METJA Q58799 METHANOCOCCUS JANNASCHII 2190 -11541998 174053 hypothetical protein mj1404 (cl:cbs homology) (db:pir2.dat) (mp:for1366104-1367369) C64475 C64475 Methanococcus jannaschii 2190 -11541998 247837 mj1404 m. jannaschii predicted coding region mj1404 (db:genpept-bct1) (de:methanococcus jannaschii section 123 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:179) (re:1444) (di:direct) U67581 U67581 g1592053 Methanococcus jannaschii 2190 -11541998 6500738140 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1404 MJ1404 Methanococcus jannaschii 2190 -11541998

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942027	22131	44287	792	264

Description

GTC ORF with score 293 to: (fn:transport; transport of small molecules:) (db:genpept-bct2) (de:escherichia coli k-12 mg1655 section 254 of 400 of the completegenome.) (nt:o438; 100 pct identical to fucp_ecoli sw: p11551;) (le:304) (re:1620) (di:direct)

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942036	22132	44288	321	107

Description

5000699234 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1405 MJ1405 Methanococcus jannaschii 2190 -11541999 5500686549 mj1405 (de:hypothetical protein mj1405) (db:swissprot) YE05_METJA Q58800 METHANOCOCCUS JANNASCHII 2190 -11541999 174054 hypothetical protein mj1405 (db:pir2.dat) (mp:for1367417-1367644) D64475 D64475 Methanococcus jannaschii 2190 -11541999 247838 mj1405 m. jannaschii predicted coding region mj1405 (db:genpept-bct1) (de:methanococcus jannaschii section 123 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:1492) (re:1719) (di:direct) U67581 U67581 g1592054 Methanococcus jannaschii 2190 -11541999 6500738141 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1405 MJ1405 Methanococcus jannaschii 2190 -11541999

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942042	22133	44289	198	65

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942043	22134	44290	183	60

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942052	22135	44291	525	175

Description

5000699235 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1407 MJ1407 Methanococcus jannaschii 2190 -11542000 174055 conserved hypothetical protein mj1407 (cl:methanococcus jannaschii conserved hypothetical protein mj1407) (db:pir2.dat) (mp:for1368410-1368799) F64475 F64475 Methanococcus jannaschii 2190 -11542000 247840 mj1407 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 123 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 48.00;) (le:2485) (re:2874) (di:direct) U67581 U67581 g1592056 Methanococcus jannaschii 2190 -11542000 6500738142 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1407 MJ1407 Methanococcus jannaschii 2190 -11542000

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942054	22136	44292	405	134

Description

5000698409 gtp-binding protein:gtp1/obg-family (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1408 MJ1408 Methanococcus jannaschii 2190 -11542001 173158 gtp-binding protein:gtp1/obg-family (cl:gtp-binding protein, gtp1/obg:translation elongation factor tu homology) (db:pir2.dat) (mp:for1368872-1369936) G64475 G64475 Methanococcus jannaschii 2190 -11542001 6500738143 gtp-binding protein:gtp1/obg-family (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1408 MJ1408 Methanococcus jannaschii 2190 -11542001 247841 mju67581 (le:1368872) (re:1369936) (di:direct) (de:or:methanococcus jannaschii pn:gtp-binding protein, gtp1/obg-family gn:mj1408 le:2947 re:4011 di:direct nt:similar to u43281_15 percent identity: 30.5;) U67581 U67581 g1592057 Methanococcus jannaschii 2190 -11542001

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942056	22137	44293	549	183

Description

5000699236 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1409 MJ1409 Methanococcus jannaschii 2190 -11542002 174056 hypothetical protein mj1409 (db:pir2.dat) (mp:rev1370744-1369938) H64475 H64475 Methanococcus jannaschii 2190 -11542002 247842 mj1409 m. jannaschii predicted coding region mj1409 (db:genpept-bct1) (de:methanococcus jannaschii section 123 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:4013) (re:4819) (di:complement) U67581 U67581 g1592058 Methanococcus jannaschii 2190 -11542002 6500738144 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1409 MJ1409 Methanococcus jannaschii 2190 -11542002

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942063	22138	44294	183	60

Description

5000699237 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1410 MJ1410 Methanococcus jannaschii 2190 -11542003 174057 hypothetical protein mj1410 (db:pir2.dat) (mp:rev1371312-1370833) A64476 A64476 Methanococcus jannaschii 2190 -11542003 247843 mj1410 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 123 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 36.08;) (le:4908) (re:5387) (di:complement) U67581 U67581 g1592059 Methanococcus jannaschii 2190 -11542003 6500738145 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1410 MJ1410 Methanococcus jannaschii 2190 -11542003

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942074	22139	44295	489	162

Description

5000699238 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1412 MJ1412 Methanococcus jannaschii 2190 -11542004 174058 hypothetical protein mj1412 (cl:hypothetical protein mj1412) (db:pir2.dat) (mp:for1373212-1374708) C64476 C64476 Methanococcus jannaschii 2190 -11542004 6500738146 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1412 MJ1412 Methanococcus jannaschii 2190 -11542004 247845 mju67581 (le:1373212) (re:1374708) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1412 gn:mj1412 le:7287 re:8783 di:direct nt:identified by genemark; putative) U67581 U67581 g1592061 Methanococcus jannaschii 2190 -11542004

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942075	22140	44296	234	77

Description

5000699239 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1413 MJ1413 Methanococcus jannaschii 2190 -11542005 173270 hypothetical protein homolog mj1413 (cl:hypothetical protein mj1413) (db:pir2.dat) (mp:rev1375042-1374731) D64476 D64476 Methanococcus jannaschii 2190 -11542005 247846 mj1413 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 123 of 150 of the complete genome.) (nt:similar to gp:1787091 percent identity: 38.54;) (le:8806) (re:9117) (di:complement) U67581 U67581 g1592062 Methanococcus jannaschii 2190 -11542005 6500738147 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1413 MJ1413 Methanococcus jannaschii 2190 -11542005

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942083	22141	44297	303	100

Description

5000699240 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1414 MJ1414 Methanococcus jannaschii 2190 -11542006 174059 hypothetical protein mj1414 (db:pir2.dat) (mp:rev1375818-1375093) E64476 E64476 Methanococcus jannaschii 2190 -11542006 247847 mj1414 m. jannaschii predicted coding region mj1414 (db:genpept-bct1) (de:methanococcus jannaschii section 123 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:9168) (re:9893) (di:complement) U67581 U67581 g1592063 Methanococcus jannaschii 2190 -11542006 6500738148 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1414 MJ1414 Methanococcus jannaschii 2190 -11542006

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942089	22142	44298	243	81

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942092	22143	44299	261	87

Description

5000699241 conserved hypothetical protein:hydrogenase expression/formation protein hype related protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1416 MJ1416 Methanococcus jannaschii 2190 -11542007 174060 hypothetical protein mj1416 (cl:conserved hypothetical protein mj1416) (db:pir2.dat) (mp:rev1378352-1376994) G64476 G64476 Methanococcus jannaschii 2190 -11542007 247849 mj1416 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 124 of 150 of the complete genome.) (nt:similar to gp:1707818 percent identity: 42.89;) (le:1168) (re:2526) (di:complement) U67582 U67582 g1500295 Methanococcus jannaschii 2190 -11542007 6500738149 conserved hypothetical protein:hydrogenase expression/formation protein hype related protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1416 MJ1416 Methanococcus jannaschii 2190 -11542007

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942115	22144	44300	192	63

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942117	22145	44301	480	160

Description

5000699242 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1419 MJ1419 Methanococcus jannaschii 2190 -11542008 174061 hypothetical protein mj1419 (cl:hypothetical protein mj1419) (db:pir2.dat) (mp:rev1382018-1381713) B64477 B64477 Methanococcus jannaschii 2190 -11542008 247852 mj1419 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 124 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent identity: 42.42;) (le:5887) (re:6192) (di:complement) U67582 U67582 g1592068 Methanococcus jannaschii 2190 -11542008 6500738150 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1419 MJ1419 Methanococcus jannaschii 2190 -11542008

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942128	22146	44302	333	110

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942131	22147	44303	234	77

Description

5000699455 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1423 MJ1423 Methanococcus jannaschii 2190 -11542009 7500922664 mj1423 (de:hypothetical protein mj1423) (db:swissprot) YE23_METJA Q58818 METHANOCOCCUS JANNASCHII 2190 -11542009 174062 hypothetical protein mj1423 (db:pir2.dat) (mp:rev1394265-1393207) F64477 F64477 Methanococcus jannaschii 2190 -11542009 7500922666 mj1423 vanadium nitrogenase-associated protein n (db:genpept-bct1) (de:methanococcus jannaschii section 125 of 150 of the complete genome.) (nt:similar to gp:1263079 percent ident: 25.00;) (le:7303) (re:8361) (di:complement) U67583 U67583 g1592073 Methanococcus jannaschii 2190 -11542009 6500738151 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1423 MJ1423 Methanococcus jannaschii 2190 -11542009 247856 mju67583 (le:1393207) (re:1394265) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1423 gn:mj1423 le:7303 re:8361 di:complement nt:identified by genemark; putative) U67583 U67583 g1592073 Methanococcus jannaschii 2190 -11542009

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942148	22148	44304	867	289

Description

5000699244 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1427 MJ1427 Methanococcus jannaschii 2190 -11542010 7500922674 mj1427 (de:hypothetical protein mj1427) (db:swissprot) YE27_METJA Q58822 METHANOCOCCUS JANNASCHII 2190 -11542010 174064 hypothetical protein mj1427 (cl:conserved hypothetical protein mj1427) (db:pir2.dat) (mp:for1396652-1397638) B64478 B64478 Methanococcus jannaschii 2190 -11542010 7500922676 mj1427 m. jannaschii predicted coding region mj1427 (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:hypothetical protein; identified by genemark;) (le:74) (re:1060) (di:direct) U67584 U67584 g1592332 Methanococcus jannaschii 2190 -11542010 6500738152 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1427 MJ1427 Methanococcus jannaschii 2190 -11542010 247860 mju67584 (le:1396652) (re:1397638) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1427 gn:mj1427 le:74 re:1060 di:direct nt:identified by genemark; putative) U67584 U67584 g1592332 Methanococcus jannaschii 2190 -11542010

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942160	22149	44305	546	182

Description

5000699245 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1428 MJ1428 Methanococcus jannaschii 2190 -11542011 7500922680 mj1428 (de:hypothetical protein mj1428) (db:swissprot) YE28_METJA Q58823 METHANOCOCCUS JANNASCHII 2190 -11542011 174065 hypothetical protein mj1428 (cl:tetratricopeptide repeat homology) (db:pir2.dat) (mp:for1397645-1399348) C64478 C64478 Methanococcus jannaschii 2190 -11542011 7500922682 mj1428 o-linked glnnac transferase (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:similar to gb:ae000666 percent ident: 34.08;) (le:1067) (re:2770) (di:direct) U67584 U67584 g1500309 Methanococcus jannaschii 2190 -11542011 6500738153 hypothetical protein:m (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1428 MJ1428 Methanococcus jannaschii 2190 -11542011 247861 mju67584 (le:1397645) (re:1399348) (di:direct) (de:or:methanococcus jannaschii pn:m. jannaschii predicted coding region mj1428 gn:mj1428 le:1067 re:2770 di:direct nt:identified by genemark; putative) U67584 U67584 g1500309 Methanococcus jannaschii 2190 -11542011

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942166	22150	44306	342	113

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942169	22151	44307	666	221

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942177	22152	44308	615	205

Description

5000699246 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1429 MJ1429 Methanococcus jannaschii 2190 -11542012 118877 mj1429 (de:hypothetical protein mj1429) (db:swissprot) YE29_METJA Q58824 METHANOCOCCUS JANNASCHII 2190 -11542012 174066 hypothetical protein mj1429 (cl:conserved hypothetical protein mj1429) (db:pir2.dat) (mp:for1399336-1400847) D64478 D64478 Methanococcus jannaschii 2190 -11542012 247862 mj1429 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:similar to gb:ae000782 percent identity: 45.04;) (le:2758) (re:4269) (di:direct) U67584 U67584 g1592079 Methanococcus jannaschii 2190 -11542012 6500738154 hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1429 MJ1429 Methanococcus jannaschii 2190 -11542012

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942188	22153	44309	201	66

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942193	22154	44310	255	84

Description

5000699247 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1431 MJ1431 Methanococcus jannaschii 2190 -11542013 4000708434 mj1431 (de:hypothetical protein mj1431) (db:swissprot) YE31_METJA Q58826 METHANOCOCCUS JANNASCHII 2190 -11542013 174067 hypothetical protein mj1431 (cl:hypothetical protein af0390) (db:pir2.dat) (mp:for1401324-1402403) F64478 F64478 Methanococcus jannaschii 2190 -11542013 247864 mj1431 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:similar to pid:1651900 percent identity: 41.14;) (le:4746) (re:5825) (di:direct) U67584 U67584 g1500312 Methanococcus jannaschii 2190 -11542013 6500738155 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1431 MJ1431 Methanococcus jannaschii 2190 -11542013

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942202	22155	44311	228	75

Description

Hypothetical protein

ORF Name	NT ID	AA ID	NT LENGTH	AA LENGTH
7501942213	22156	44312	762	254

Description

5000699248 conserved hypothetical protein:hypothetical protein (gtcfc:14.1) (keggfc:14.2) (tigrfc:15.1) (db:gtc-methanococcus jannaschii) MJ1432 MJ1432 Methanococcus jannaschii 2190 -11542014 174285 hypothetical protein yer007c-a homolog (db:pir2.dat) (mp:for1402425-1402913) G64478 G64478 Methanococcus jannaschii 2190 -11542014 247865 mj1432 conserved hypothetical protein (db:genpept-bct1) (de:methanococcus jannaschii section 126 of 150 of the complete genome.) (nt:similar to pid:1877417 percent identity: 36.67;) (le:5847) (re:6335) (di:direct) U675>7501729563

CLAIMS

1. An isolated nucleic acid comprising a nucleotide sequence encoding an *A. fumigatus* polypeptide selected from the group consisting of SEQ ID NO: 22157 - SEQ ID NO: 44266.

2. A recombinant expression vector comprising the nucleic acid of claim 1 operably linked to a transcription regulatory element.

3. A cell comprising a recombinant expression vector of claim 2.

4. A method for producing an *A. fumigatus* polypeptide comprising culturing a cell of claim 3 under conditions that permit expression of the polypeptide.

5. An isolated nucleic acid comprising a nucleotide sequence encoding an *A. fumigatus* polypeptide or a fragment thereof, said nucleic acid selected from the group consisting of SEQ ID NO: 1 - SEQ ID NO: 22156.

6. A recombinant expression vector comprising the nucleic acid of claim 5 operably linked to a transcription regulatory element.

7. A cell comprising a recombinant expression vector of claim 6.

8. A method for producing an *A. fumigatus* polypeptide comprising culturing a cell of claim 7 under conditions that permit expression of the polypeptide.

9. A probe comprising a nucleotide sequence consisting of at least eight contiguous nucleotides of a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 - SEQ ID NO: 22156.

10. An isolated nucleic acid comprising a nucleotide sequence of at least eight nucleotides in length, wherein the sequence is hybridizable to a nucleic acid having a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 - SEQ ID NO: 22156.

11. A vaccine composition for prevention or treatment of an *A. fumigatus* infection comprising an effective amount of a nucleic acid of claim 5 and a pharmaceutically acceptable carrier.

12. A vaccine composition of claim 11, further comprising an adjuvant.

13. A vaccine composition of claim 11, further comprising one or more additional active ingredients.

14. A method of treating a subject for *A. fumigatus* infection comprising administering to a subject a vaccine composition of claim 11, such that treatment of *A. fumigatus* infection occurs.

15. A method of claim 14, wherein the treatment is a prophylactic treatment.

16. A method of claim 14, wherein the treatment is a therapeutic treatment.

17. A recombinant or substantially pure preparation of an *A. fumigatus* polypeptide or a fragment thereof, wherein said polypeptide is selected from the group consisting of SEQ ID NO: 22157 - SEQ ID NO: 44266.

18. A vaccine composition for prevention or treatment of an *A. fumigatus* infection comprising an effective amount of an *A. fumigatus* polypeptide of claim 17 and a pharmaceutically acceptable carrier.

19. A vaccine composition of claim 18, further comprising an adjuvant.

20. A vaccine composition of claim 18, further comprising one or more additional active ingredients.

21. A method of treating a subject for *A. fumigatus* infection comprising administering to a subject a vaccine composition of claim 18, such that treatment of *A. fumigatus* infection occurs.

22. A method of claim 21, wherein the treatment is a prophylactic treatment.

23. A method of claim 21, wherein the treatment is a therapeutic treatment.

24. A method for detecting the presence of a *Aspergillus* nucleic acid in a sample comprising:

(a) contacting a sample with a nucleic acid of claim 5 under conditions in which a hybrid can form between the probe and a *Aspergillus* nucleic acid in the sample; and

(b) detecting the hybrid formed in step (a), wherein detection of a hybrid indicates the presence of a *Aspergillus* nucleic acid in the sample.

25. A computer readable medium having recorded thereon the nucleotide sequences depicted in SEQ ID NO: 1 - SEQ ID NO: 22156 or fragments thereof.

26. A computer based system for identifying fragments of the *Aspergillus* genome of commercial importance comprising the following elements;

a) a data storage means comprising the nucleotide sequences SEQ ID NO: 1 - SEQ ID NO: 22156 or fragments thereof,

b) a search means for comparing a target sequence to the nucleotide sequences of the data storage means of step (a) to identify homologous sequences, and;

c) a retrieval means for obtaining said homologous sequences(s) of step (b).

27. A method of identifying commercially important nucleic acid fragments of the *Aspergillus* genome comprising the step of comparing a database comprising the nucleotide sequences SEQ ID NO: 1 - SEQ ID NO: 22156 or fragments thereof with a target sequence to obtain a nucleic acid molecule comprised of a complementary nucleotide sequence to said target sequence, wherein said target sequence is not randomly selected.

28. A method for identifying an expression modulating fragment of the *Aspergillus* genome comprising the step of comparing a database comprising the nucleotide sequences SEQ ID NO: 1 - SEQ ID NO: 22156 or fragments thereof with a target sequence to obtain a nucleic acid molecule comprised of a complementary nucleotide sequence to said target sequence, wherein said target sequence comprises sequences known to regulate gene expression.

ABSTRACT OF THE DISCLOSURE

The invention provides isolated polypeptide and nucleic acid sequences derived from *Aspergillus fumigatus* that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from fungal infection.

Attorney Docket No. PATH99-10

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application/Power of Attorney

As a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO *ASPERGILLUS FUMIGATUS* FOR DIAGNOSTICS AND THERAPEUTICS

the specification of which (check one)

[X] is attached hereto.

[] was filed on _____ as United States Application

Number _____

and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is known by me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)		Priority	Certified Copy Filed?		
			Not Claimed	YES	NO
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	[]	[]	[]

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

60/113,476 (Application Number)	December 21,1998 (Filing Date)
60/104,683 (Application Number)	October 16, 1998 (Filing Date)
_____ (Application Number)	_____ (Filing Date)

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information known by me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)

As a named inventor, I hereby appoint the following attorneys and/or agents:

Nina L. Pearlmutter Reg. No. 35,639

the mailing address and telephone number of whom is GENOME THERAPEUTICS CORPORATION, 100 Beaver Street, Waltham, MA 02453 and (781) 398-2508, with full power of substitution and revocation to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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or
[X] Address below:

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Direct facsimiles to: Nina L. Pearlmutter Facsimile No.: 781-398-2607

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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or first inventor Keith G. Weinstock

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Full name of third joint _____

Inventor's Signature _____ Date _____
Residence _____
Citizenship _____
Post Office Address _____

Full name of fourth joint
inventor, if any _____

Inventor's Signature _____ Date _____
Residence _____
Citizenship _____
Post Office Address _____

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09/417507
10/14/99

SEQUENCE LISTING

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cagtactacc agatgatccg gctgggcaag cgcggctacc gctcgattat ggtcaacatc 180
acgcgcattg ccgactacct ggcccagcaa ctcgaaaagc taggcttgat catcatgagc 240

<210> 4

<211> 411
<212> DNA
<213> A.fumigatus

<400> 4
acagcgccgt gcaggtctgc tgggagaaag ccgcgcgata ctttgatgtg gaggagcgct 60
acgtctactg taccgaggac cgctatgtca ttgaccccaa gcaggccgct gatatggtcg 120
acgagaacac catcggcatc tgcgccatcc tgggaaccac ctacaccggc gagtacgagg 180
acgtcaaggc gattaatgat cttctggtcg agcgcggcct tgacattccg atccatgtgg 240
acgccgctag cggtggcttt gtcgtcccgc tcatcaaccc caatctgctg tgggactttc 300
gcctggagaa ggtcgtttgc atcaacgtgt ccggccacaa gtacggcctt gtctaccccg 360
gcgtgggctg agtcgtctgg cgctcacccg aatacctacc caaggagctg a 411

<210> 5
<211> 231
<212> DNA
<213> A.fumigatus

<400> 5
atgctccacg tcggatcctt ccagccccgt ggtgaagacc ggcccgtgag ttgttacaca 60
ctccttagcg gattccgact tccatggcca ccgtcgggct gtctagatga actaacacct 120
tttgtggtgt ctgatgagcg tgcattccgg caccttaacc tcgcgttcgg ttcatcccgc 180
atcgccagtt ctgcttacca aaaatggccc actagtaacg cttcattcta a 231

<210> 6
<211> 201
<212> DNA
<213> A.fumigatus

<400> 6
gagactttaa ttactaagta taatactagt actattataa tattatataa taagatagag 60
gtaataacag gctttctacc taaaaataat ataaataaga ttatctatat aattaactat 120
aacttattta agctttatat tattataaat ataattatag gctatctagc ccctaccctt 180
aagaataaga ctataatata a 201

<210> 7
<211> 336
<212> DNA
<213> A.fumigatus

<400> 7
atgtcctgca ctggcacttg gatgacacgc aatcgtggcc tgtacagatc aacgcacatc 60
cggagatggt taaagatgca tactcggtcc gggagactta ctcgcacgct gacatccgcc 120
aaattattgc ctatgcccgt gcccgaggta tccgtgtcat ccccgaagtc gatatgccca 180
gtcgtctggc aatatcatac tgccgttcaa cccaacccgg gccagctgga catcatctac 240
gacaagacgt acgacatcgt tcgggatgtc tacaatgagc tgtcgggggt ctttaccgac 300
aattggttcc atgtgggagc tgatgagatt caaccc 336

<210> 8
<211> 402
<212> DNA
<213> A.fumigatus

<400> 8
agactcagta tccaggatgc gcctctctat ccttatcgtg gcatcatgat cgatactggt 60
cgcaacttca tctccgtgaa aaagatcctg gagcagttgg atgccatgtc attgtccaag 120

ctgaatgtcc tgcactggca cttggatgac acgcaatcgt ggcctgtaca gatcaacgca 180
catccggaga tggttaaaga tgcatactcg gtccgggaga cttactcgca cgctgacatc 240
cgccaaatta ttgcctatgc ccgtgcccga ggtatccgtg tcatccccga agtcgatatg 300
cccagtcgtc tggcaatatc atactgccgt tcaacccaac ccgggccagc tggacatcat 360
ctacgacaag acgtacgaca tcgttcggga tgtctacaat ga 402

<210> 9
<211> 309
<212> DNA
<213> A.fumigatus

<400> 9
cgcctgcaca caaccacaat cctagctcca tactgccagg tgtcaccagg gttaagggca 60
gctacggacc agtgtgataa taaatcaagg ggcctcaagc tagccgacct ggctatatgg 120
gatggccgcg gggcccatgc tggtgctaag ctaagaatgt tcctacatga cctctctgaa 180
tactacctag ctaagcccca gacatttaat aataatataa ataagatcct atacgcgacc 240
tcccaactca gtgtagatgt taagaatgct tggcaggagc ggcatcctaa gggatataag 300
gctagttag 309

<210> 10
<211> 216
<212> DNA
<213> A.fumigatus

<400> 10
aaatcgggca tcggattgcc gtcacttgag aacaaacagg ctgatgtaaa tcagatgcaa 60
tgcgcctggc tcggtgagcg tgttgctgct cccaatctca atggcgtgac aaccaacgtt 120
atcctcggca agaccggtgg taactggggt ccgagacgct ctgacaaaac tggcgcagta 180
cgcctttggc aagccatatt ggatagcaag aattaa 216

<210> 11
<211> 192
<212> DNA
<213> A.fumigatus

<400> 11
acaagcagat gccctggcaa acaactactg aaggttcctg gtaatgccac cacttcggag 60
gattgcctga cggtgaatgt gtttcgtcct catggcgcaa aaggcaaact acccgttgcg 120
gtgtacgtgc atggtggagc atataaccgt ggcacaggtg aggaatctgc aaacaaacat 180
gggcatgtct ga 192

<210> 12
<211> 186
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (184),(185)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 12
atcgcacacc atatcatgaa ctacgacctc ggcacctctc tcttccaccg agccgttctc 60
gaatctggcg cagccacctc ccgcgccgtg catgcataca acgcccaaat ccacgaaacc 120
caattccaag aattcattac agaagccggt cttcaccacg gggctggaag gagcagcgcc 180
aagnng 186

<210> 13
<211> 261
<212> DNA
<213> A.fumigatus

<400> 13
gggaatcatt gtagcatcgg cgcgttggga tttcttcctt cgaccgtgtc agcgcaggag 60
ggaattctca atctcggact acatgaccaa atccttgcct tccaatgggt tcaggaaaat 120
atcgaagcgt ttggagggga cccctcgcaa gtcacgctca tcggcctgtc cgcaggagca 180
cactcggtat ggcgcccaag gagatataat caaagaccag cactgatatc aatcgtacgt 240
agatcgcaca ccatatcatg a 261

<210> 14
<211> 435
<212> DNA
<213> A.fumigatus

<400> 14
aaagctgtcc tcaaatttat cgccccgtac acgcgatttt cgctcagctt catctccaag 60
cacatcaaga tatctgtccc ggaagtacag gatatcctga gttacttgat ccttgacaag 120
aagttaaatg ccaagattga ccaagaaaac ggaacggttg ttgttgaaag tgccagcgat 180
gtggatcgat tgcgtgccct tcaggactgg agcgcgtcgc tccgaagcct ctggcaggcg 240
acattaatcg acggcgaagg attcaagagc gacgacccgg cgcaacttca tgggatgaga 300
gggggttcaa tgctccaatc agcgtttgga gacgaggcgc ctaccgcggg tttacgtgcc 360
agcaactttc gagtacggac agggtggaag ggcaagggtg gccagggttc caaggccggt 420
gtaggagcct tctag 435

<210> 15
<211> 603
<212> DNA
<213> A.fumigatus

<400> 15
ctttgtaatt gcagcggctc cttccagccc cgtggtgaag actactcgat tattgtctgg 60
ctcaacccta cgctctgcat catgccatca gtagtagcgc tcgacctctg ccagcttttt 120
gaccggtccg tcgctcggac accacaccag ctggcagtcg atcatgagag cggctcgctc 180
acctataccg aactcgatgt ggcctcatcg aacctggccc gaaagctaaa gcaagaagga 240
gtagtccctg gggaagcggt cctcttactt actgagcacg gcacccggaa tgttgtcgcg 300
ctgcttgcca tcctcaaggc ccacgcctgc tacgttcctc tggaccgcag ctcgtggtca 360
tcagagcgga tccaggccgt gctggacggg acagacagcc ggattctgat caacacaacc 420
gtcgagccgt tcgaaagccc gcggcacaaa gtcatccatc tgaccagcgc cgatgtgacg 480
actctatcga cggaccgcag caccacaaag gtcattcccg acatcgctcc cgaagacctc 540
gcttgtttga tctttaccag tgggagcaca ggtgtgccca agggagtcat gattccacat 600
cgt 603

<210> 16
<211> 537
<212> DNA
<213> A.fumigatus

<400> 16
cactccctac gtcaaaagac tgtacactca gacatcagca aaaggcaaag gcacaaacga 60
tccgcccaga ctacggtcgg caaacaagct acagaaaaaa cacgcaggaa ggaaaaaaca 120
aagaacagac agcaagagaa agtcgcagaa cacacaacga caaaagcatc aaatcaggaa 180
atcaccgaaa ccgcatcaac caaaaaagaa gaaaaagagc gggagacaac agagaaggaa 240

ggcgaaaaaa ggagacagaa agcagaccag aaggaaaaac agccccagaa gcggaaaaaa 300
gaaaggcaag aagagcgaaa gcgaacaggg aaaaagaaag ccgacgcaca agggaagaga 360
caggaagcaa tccgcaaccg aaacgataaa agggaggaaa aggaggagga aaggcagaca 420
cgagaaggac gaaggcatcg aataaaaagg gaaaaagaag atcaaagaga acaggaaatc 480
acaggtcgag tctcccacca cgaaggcgtc aaggaaccgg ccaaatgccg ggggaag 537

<210> 17
<211> 444
<212> DNA
<213> A.fumigatus

<400> 17
actccctacg tcaaaagact gtacactcag acatcagcaa aaggcaaagg cacaaacgat 60
ccgcccagac tacggtcggc aaacaagcta cagaaaaaac acgcaggaag gaaaaaacaa 120
agaacagaca gcaagagaaa gtcgcagaac acacaacgac aaaagcatca aatcaggaaa 180
tcaccgaaac cgcatcaacc aaaaaagaag aaaaagagcg ggagacaaca gagaaggaag 240
gcgaaaaaag gagacagaaa gcagaccaga aggaaaaaca gccccagaag cggaaaaaag 300
aaaggcaaga agagcgaaag cgaacaggga aaaagaaagc cgacgcacaa gggaagagac 360
aggaagcaat ccgcaaccga aacgataaaa gggaggaaaa ggaggaggaa aggcagacac 420
gagaaggacg aaggcatcga ataa 444

<210> 18
<211> 390
<212> DNA
<213> A.fumigatus

<400> 18
tcactcccta cgtcaaaaga ctgtacactc agacatcagc aaaaggcaaa ggcacaaacg 60
atccgcccag actacggtcg gcaaacaagc tacagaaaaa acacgcagga aggaaaaaac 120
aaagaacaga cagcaagaga aagtcgcaga acacacaacg acaaaagcat caaatcagga 180
aatcaccgaa accgcatcaa ccaaaaaaga agaaaaagag cgggagacaa cagagaagga 240
aggcgaaaaa aggagacaga aagcagacca gaaggaaaaa cagccccaga agcggaaaaa 300
agaaaggcaa gaagagcgaa agcgaacagg gaaaaagaaa gccgacgcac aagggaagag 360
acaggaagca atccgcaacc gaaacgataa 390

<210> 19
<211> 213
<212> DNA
<213> A.fumigatus

<400> 19
attatgacat tcactacagt gtggtggcgc tcatatacat ggtttaactg caggaagccc 60
tggatcccta gacatagtat cttaagcttt aaagacctga ttctcttgct ggaattactc 120
ctggccttcc tagatagaaa gaccctctat agtattaagc tgcctagtag atctcttata 180
ttttttaagc tatttcttat gtgcagctta taa 213

<210> 20
<211> 507
<212> DNA
<213> A.fumigatus

<400> 20
cacattgaaa gattcgatgt cattgaactg tcgtctggct tcttatcgtt cccagaagat 60
gactggctcg gcctggttga caaagtccac gcatacaagt tgaaggcaaa accagagctc 120
ggcattcagt ttggtgctgg aggtgataca cctgcttctg gccttgaggc tattgggact 180
tctgatcctg ggaagctcgt taacatgggg cgtaaattcc tggacgtggg tgtcgaacgg 240

ttaatgatcg aatctgaggg tataacagaa aacgtgcagt catggcggac tgacgttgtg 300
tccacaataa tgaaggaatt gccgtccgag cgggtcatgt tcgaggccgc agatcccaag 360
gtattcaact ggtatataag ggagttcggc atcgatgtga acttgttcgt cgaccatagt 420
caaattgttc aactgtcgtg cctgcgacag ggcatttggg gcacagctga cacttggggc 480
aaagtggtat catttcggtc agaataa 507

<210> 21
<211> 321
<212> DNA
<213> A.fumigatus

<400> 21
ggttttcgag tcaggctggc tgatccgggt aggtatgcga ttcgtgttgg gaggtcaacc 60
agtgtcaatg ggccttttca ggataaagat ggcaagaacc ttactgatgg tggagggacg 120
gttgtctacg cctcaaatca tggtgttgtt tatgcgcctg gggggttgg cgtgttgcct 180
gcgaacgaga agcatcctga gattttgtac tatcactacc gtgagtcaat tccttcactt 240
tgtgtctggt ttactgactc gacagtgaat acatcgatgg gcttaaaaga caatgtgagt 300
aggatcacaa ccaagcaatg a 321

<210> 22
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (233)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 22
catgccaagg acgcacgcct gggatggagt tacctcgagt acaaggatgg atggccagta 60
gcaaggtacg tgcactaccc taaggagacg acatcaactg acccgtgcag agctgtagag 120
aacagcggaa tggccagtcg tccgaactat atcctctgta tatctgctct gattggtacg 180
cattctgtca aagtcttcac cacggggctg gaaggatcag cgctgatcta ttna 234

<210> 23
<211> 192
<212> DNA
<213> A.fumigatus

<400> 23
accgtctctc tcatcgcgga agcactaaca aatgacgcat ataggttcga tggacgcacc 60
attcgtgttg acaaggcctc cgagcgccct gcccgtaaca acggtggctt ccacggccgt 120
ggtggctaca accagtccga gggtgctccc ggaaatggta tatgctccca tcaaattgtt 180
caacgaattt aa 192

<210> 24
<211> 294
<212> DNA
<213> A.fumigatus

<400> 24
aacaaagtac ccacagcgga agaagccgca gaaatagtgg atactattaa ctatttaagg 60
actcaacttt cgagggacat cgaattcatg aacctccgca tggcaattta ctataatcag 120
aagcacggga gtgctctaaa tttgaaaagg ggggagaaag tctacctgct ccgcagaaac 180
atcaaaacaa aaagactaag tcagaaacta gaccatcaga aaattagacc attcatcatt 240

acagaaaaat taggactagt caactacaaa ctacgactac caaaaagcat gaca 294

<210> 25
<211> 642
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (632),(633)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 25
atcgatgtga aagccgacgg gtcacaggaa attgtgcggc ccagtaaaag tggacttgct 60
cgagtatccg tccttcgggg gtctggagtc catgagggag tacctttcat cgatgactat 120
atcactatta aagaacctat tgtcgactat gtcactcaat attccggtat taaacctggc 180
gacttagacc ccaggaccag tcaacacaac ctggtccctc tcaaagttgc ttacaagaaa 240
ctatggctgc ttctcaacct gggttgcgtc tttgtcggtc atggtcttgc ttccgacttt 300
cgcaaaatca acatacaggt gcctaagagc cagacggtcg acacacaata cctttacttc 360
caccctggca agaaccggcg acttagcctc cgatatttag cttgggccgt gttcaaagaa 420
tacatccaag aagagccggc tgacaataac cagggtcacg actcaattga agatgcccgc 480
atggctcttc gtctgtggaa gaagttccag gaatacgagg atgcaggtat tgtgaatcaa 540
atcctggaag aaattttccg cgaaggatcc aaacttggtt tcagacgtct tcaccacggg 600
gctggaagga tcagcgatgg tcatatcaaa annccccccc cg 642

<210> 26
<211> 435
<212> DNA
<213> A.fumigatus

<400> 26
ctcccatggc gcggctcctt ccagccccgt ggtgaagact ccggggaccg catcatttc 60
cgctttttaa ccggggcgta ccacgactgg ttgcagggtg gtgaagatga ggatgatgag 120
accgctgaga aacgacttgt gccccatatt gagtcaatgg ctcaagagtt tgagaggggt 180
aatgagaagt acatgcagga gatgcaagtt ttggaagcgg agaaccgggc actacgcgat 240
cagattgaag agttggagaa gaatgcgccc gacatggcca aattggataa gcatttcagg 300
attctggagg acgataagcg gaagtttgag gactacaacc aaaatgttca gggcaagatt 360
gagaagtacg agaattctaa tcaggtcttg gaggaagaga accagaatgt tgaggcggag 420
ctatatgcag tctaa 435

<210> 27
<211> 261
<212> DNA
<213> A.fumigatus

<400> 27
ggactgagta gaagcattaa atcattgctt aaactttgtg acttttgctt ccgcagatat 60
cttaacctca attccctgat ccttgatatg ctttatatac tattgcactt gttcttctat 120
tttaagcata tatatttatg cctgttcttt aatttcattt atatatttat tggctgtatt 180
gcgtatctca gagttactat cattgacttg ttcacaaaat ttggccctgt ttgttgtaga 240
actaatcaca acattcactg a 261

<210> 28
<211> 447
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (404)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 28
ggacaagctg accagataga ctacgagtac catgacatgg accagacgct cgtgctcaac 60
ctcaaccagg ctgccatcaa cgccatccgt gctgcaggcg ccacgtcgca gtacattttc 120
gtcgagggca actcgtggtc cggcgcgtgg acctggacca ccgtcaacga caacctcaag 180
gccctcaccg acccgcagga taagatcgtc tacgagatgc accagtatct cgactccgac 240
gggtccggca tgtcggccac ctgcgtgagc tccaccatcg gccaggagcg cgtgcaggcc 300
gccacacagt ggttgaagac caatggtaag aaaggtatca ttggcgagtt cgctggaggc 360
gccaacagcg ggtcccagtc cgctgttaca ggagagccga tacnctatag ttcacgccgg 420
ggatgggacg taacgcgtgg cgggtat 447

<210> 29
<211> 189
<212> DNA
<213> A.fumigatus

<400> 29
tcattgtatt tgttcctcaa ggtcaagtcc ataaacagcg gcagcggaga tttgaacaac 60
gcgcggttcc tgagcctggt cgcggcttac tccaggctca ctccttttac cgaggaggtc 120
tggctgggcg atgggcttct aggttctggg atccgtcccc tctgggggct ctccgggcgt 180
ggttcataa 189

<210> 30
<211> 393
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (6)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 30
ttaacnaatt caatgtctcg cgcccttcac ttggcgatat tctctaatgg caccagacca 60
gctcactatg ctgtcttcat ccctactggt gatgcaggca agatgggaaa gcttattcat 120
gtgaccggaa ccaccgccac gggattcttc cttgaattca agcgcaacta cgacttcaat 180
ctcacacaga gaaagcacca gctcattcta cttgcccagg tcaatgccca gtatataaca 240
gatactgttg gcaccggaca gcaatcagct gatacaattg ctcgagatcg actggagtca 300
gttgctacaa ctgtgccgcc tccgggacgc agcgccaatc cttttgatcc atcggtaagc 360
cggcctcacc gttggaacag ccatgcatac tga 393

<210> 31
<211> 408
<212> DNA
<213> A.fumigatus

<400> 31
gacaccatgc tcgacccgtt ttttgctgac aggtatctag ataataagta cggcatggga 60
acctctgctg aaagagcgtc tgcaatgact gattattata aacgtggttt atacatccct 120
ggactaaggg tgaacggtat ggacgtcctg gcagtaatgg cagcagtaaa acacggcaga 180
gagtttattc gagctggaaa cgggccgttg gtctatgagt atgtgacata tcggtacgcc 240

gggcactcaa tgagtgatcc tggagtcgga tatcggactc gcggagagct aaaggcggaa 300
cgtgcaagtg atccggtttc gaactttcgg gcacagctga tagactggcg tatcatcact 360
gaggccgaag cgtcttcact cacggaggat gccaggatcc gcgcataa 408

<210> 32
<211> 363
<212> DNA
<213> A.fumigatus

<400> 32
agactcgtga gtgcaagata tatttctcaa accgcccgtg ttgcggccaa tggctccaat 60
atcctccggc ggcagctccc atctccgctc cacggccgct gttcggccgc tggcatagct 120
ccccgattca ctgctgggcc atcggtgcac tcccaaaatg cggtcacacg gcgctatgcc 180
tcgtctactg cctcaggacc agtcaagaag actcaattgt atgatctgca cattgccagg 240
ggagcgaaga tggtgccctt tgcggggtac tctatgcccc tacagtattc agatctcagt 300
cacgtcgaga gccaccactg gaccagagaa aaggctagtg tgttcgacgt gagccatatg 360
taa 363

<210> 33
<211> 483
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (282),(383),(386),(417),(418),(431),(471)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 33
gtattgccca taccagcgat gttgatcttt gaagacactc tgaatctaac cctgggtagg 60
gtacaacacc atcttagtgg tcctggagcc atggagctgc taatgaaggt cactccctcg 120
tctctggaca agctcaagcc taactcttcc acactctcct gcctgcttga agaaggcacc 180
ggcggcatcg tcgatgacac cgtcattacc cgcctcgacg gcgacgcatt ttatttcgtc 240
accaacgccg gccgccgcac cgaggacctg gccttcctgc angccgagat cgaggcgtac 300
aggcagaccc acggcgccga cagcatcaag tgggagaatc ttgccgaccg ggctctcgtc 360
gccctgcagg gccctctcgc tgnctncgtc ctgcagcccc tgatcagctc ccacggnngc 420
gggctccccg ncgacaccga ccttaacacc ctctacttcg gcaactggcg ntcccctaac 480
taa 483

<210> 34
<211> 198
<212> DNA
<213> A.fumigatus

<400> 34
tgcactgagt tcatcaaact ttgcagagag gacggcgttg ttgactttag tgtgatggct 60
ggaagagaac tttgctatgg atgcagcttt gatcttgatg ttctgccaat tcccttgatc 120
tatgattcga tggtctccaa ggaccacgat atgatccgca gcttggaaat actgagctat 180
cccagagtta ggctgtga 198

<210> 35
<211> 420
<212> DNA
<213> A.fumigatus

<400> 35

agactcatcc gtaacatcac cgagcacggt gtcatcgccg tcggagtcgg tatgaacgtc 60
tcccagcctg gcgatgtctc caacgccatt ttccccgccc tgcgcaatgc tgccatcacc 120
atgcagatcg gtacccactg gaacgagacc gctccttggt cccagatgct ggaggatcag 180
tacaagatga cgaacgagta tgtgccccag ttggaggcgg tcacccccgg cagcggctgc 240
taccagaacg aggccaattt ccgccaaccc aactggaagg acaccttctt cggcgtcaac 300
tactctcccc tgctcaagat caagcagaag tgggatccca gctacttctt ctacgctctt 360
aaggctgtag gcagcgacta ctggaccgtt gacgactcgg gtcgcatgtg ccatgcttga 420

<210> 36
<211> 339
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (306)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 36
cgacagcagg tcctgatcat cgccatggcg gtcagtttcg gcattcaatc ctggattgag 60
ggtggtgtca ttggggctgt cattggtcta aacattgtgg taggtgtcta tcaagactat 120
gccgcagaga aaacaatgga ttcccttcga tcgttgagtt ctcccaccgg aactgtcacg 180
cgtgatggca aaaccagtac cattcctgcc aacgagattg tccccgggga catgattgaa 240
ctcaaagttg gagacacggt tcctgcggat ctttcgtgcg taaagagtta ccagaaaaat 300
atcgtntccc gttcactaac cggccgaata ggcctcgtt 339

<210> 37
<211> 273
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(15),(16),(17),(18),(19),(20),(21),(22),(23),(24),(25),(26),(27),(28),(29),(30)
,(31),(32),(33),(34),(35),(36),(37),(38),(39)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 37
acccttgaaa cttcnnnnnn nnnnnnnnnn nnnnnnnnng aagaccgcta tgaggatgtc 60
cttcgtgagc tggccgtcga tccagaccag ggtctgaccg tgggggaggc gaagcgaaga 120
ctccaacaat atggtccgaa tgaactggaa gggggagagg gtgtttccat tgtcaagatt 180
gtcattaggc agatcgcaaa tgccatgatg ctggttagtc tctccctttt gttagacaga 240
caacgacaga caactgacga cagcaggtcc tga 273

<210> 38
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(193),(194),(195),(196),(197),(198),(199),(200),(201),(202),(203),(204),(205),(
206),(207),(208),(209),(210),(211),(212),(213),(214),(215),(216),(217)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 38
caaaagggag agactaacca gcatcatggc atttgcgatc tgcctaatga caatcttgac 60
aatggaaaca ccctctcccc cttccagttc attcggacca tattgttgga gtcttcgctt 120
cgcctccccc acggtcagac cctggtctgg atcgacggcc agctcacgaa ggacatcctc 180
atagcggtct tcnnnnnnnn nnnnnnnnnn nnnnnnngaa gtttcaaggg ttca 234

<210> 39
<211> 216
<212> DNA
<213> A.fumigatus

<400> 39
agacatgcgt tctcccgcca catgtcgctc ttgacccccg ccggcgcgat cgcattgact 60
gtgcacccct tgcgcccaaa atcggccgcc aagcagcgcg tgaacccctc gatggccgcc 120
ttgctgcccg cgtacagcgc gtggcccggc acccccagcc ccgcggcaat tgaggacatg 180
aggatcaccc gccccccggg ctggatgtgg tcgtag 216

<210> 40
<211> 648
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (606),(635),(636)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 40
tcttcccctc aaccgcaaag gtcgcccttc gtgaccgccg gcggcccgag gcatcgggcc 60
ggcattggcc tcgaacttgg ccgtcggcgg ggcctccgtg gcaatcaatt acggcccaag 120
cgccaagtcg gcccaagagg tggtcgaagc aatccaggcc atcgcccgcc agccggtcgc 180
catccagccg gatttgacgt gcgtgcccaa catcgagtcg ttcatccaga aggtcgtcgg 240
ccacttgggc gggttgaaca ttgtggtgtc caattccggc atggaaaagt tcaagccctt 300
ggaggagacc acgctggagg acttcaacga ggtgttcaat ctcaacacgc gggcgcagat 360
gttcgtcgcg cgctacgcct acgaccacat ccagccgggg gggcgggtga tcctcatgtc 420
ctcaattgcc gcggggctgg gggtgccggg ccacgcgctg tacgcgggca gcaaggcggc 480
catcgagggg ttcacgcgct gcttggcggc cgattttggg cgcaaggggt gcacagtcaa 540
tgcgatcgcg ccggcggggg tcaagagcga catgtggcgg gagaacgcat gtcttcacca 600
cggggntgga agtacagcag tgtcagtttt aaaannccgc ccgccagg 648

<210> 41
<211> 615
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (572),(601),(602)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 41
ccgccggcgg cccgaggcat cgggccggca ttggcctcga acttggccgt cggcggggcc 60
tccgtggcaa tcaattacgg cccaagcgcc aagtcggccc aagaggtggt cgaagcaatc 120
caggccatcg cccgccagcc ggtcgccatc cagccggatt tgacgtgcgt gcccaacatc 180
gagtcgttca tccagaaggt cgtcggccac ttgggcgggt tgaacattgt ggtgtccaat 240

tccggcatgg aaaagttcaa gcccttggag gagaccacgc tggaggactt caacgaggtg 300
ttcaatctca acacgcgggc gcagatgttc gtcgcgcgct acgcctacga ccacatccag 360
ccgggggggc gggtgatcct catgtcctca attgccgcgg ggctgggggt gccgggccac 420
gcgctgtacg cgggcagcaa ggcggccatc gaggggttca cgcgctgctt ggcggccgat 480
tttgggcgca aggggtgcac agtcaatgcg atcgcgccgg cgggggtcaa gagcgacatg 540
tggcgggaga acgcatgtct tcaccacggg gntggaagta cagcagtgtc agttttaaaa 600
nnccgcccgc caggc 615

<210> 42
<211> 624
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (13)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 42
caacttatat ttnccatgcg gctgttaata atcaagcgca acacagccat ccccactaag 60
aagtctgaga ccttctccac ctactccgac aaccagcccg gtgtgctgat ccaggtctac 120
gagggtgagc gtgctcgtac caaggacaac aacctccttg gtaagttcga gcttaccggc 180
attcctcccg ccccccgtgg tgtcccccag attgaggtca cctttgatgt cgatgccaac 240
ggtatcatga acgtttctgc cgttgagaag ggcaccggca agaccaacaa gatcaccatc 300
accaacgaca agggccgtct ttctaaggag gagattgagc gcatgctggc tgatgccgag 360
aagtacaagg aggaggatga ggccgaggct gcccgtatcc aggccaagaa cggtctggag 420
tcttatgcct actccctcaa gaacaccatc agcgaaggca agctcaacat cagcgatgcc 480
gataaggaga aggtctccag caaggtcgaa gagatcatca gctggctcga caacaaccag 540
actgccacca aggacgagta cgagtcccag cagaaggagc ttgaaaggta tgtttcattt 600
ctttccctct taatgttcac ctga 624

<210> 43
<211> 570
<212> DNA
<213> A.fumigatus

<400> 43
aacatacctt tcaagctcct tctgctggga ctcgtactcg tccttggtgg cagtctggtt 60
gttgtcgagc cagctgatga tctcttcgac cttgctggag accttctcct tatcggcatc 120
gctgatgttg agcttgcctt cgctgatggt gttcttgagg gagtaggcat aagactccag 180
accgttcttg gcctggatac gggcagcctc ggcctcatcc tcctccttgt acttctcggc 240
atcagccagc atgcgctcaa tctcctcctt agaaagacgg cccttgtcgt tggtgatggt 300
gatcttgttg gtcttgccgg tgcccttctc aacggcagaa acgttcatga taccgttggc 360
atcgacatca aaggtgacct caatctgggg gacaccacgg ggggcgggag gaatgccggt 420
aagctcgaac ttaccaagga ggttgttgtc cttggtacga gcacgctcac cctcgtagac 480
ctggatcagc acaccgggct ggttgtcgga gtaggtggag aaggtctcag acttcttagt 540
ggggatggct gtgttgcgct tgattattaa 570

<210> 44
<211> 231
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (165)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 44
ttattatcta ctattactat ctctaagagt actattattc ttattattct tagtatattc 60
ttcaccccta ttaatattta tctcaagctt actctctatc ttaagaagga agttattact 120
ataaccatgc ttcttattaa gagccttaat cttattaatt atagnctatg ctttcctatt 180
attattatag cctatgattt cttattatta atattagtaa gagtaattta g 231

<210> 45
<211> 252
<212> DNA
<213> A.fumigatus

<400> 45
cactacttcc ttaggactcc ttcacagtgt gacagggccc taataaatac aaagctttcc 60
acagagcaag aggcggctct tataaagtat attaatatac ttatcaagct agatattccc 120
ctatggctaa aggcaatcag taatacagta aattcaatac tcttttatgg acatactgat 180
ccaataaccc ccccccttt aattagcgtg cattggatga aatgcttcct taaatactat 240
ctagaatatt aa 252

<210> 46
<211> 273
<212> DNA
<213> A.fumigatus

<400> 46
gcacctttg cggaagatga aaagaatggc tggaaacaga tactgacaca cacctctata 60
gccattgacc ttctcaagaa gatgctggtt attgatcccg acacgagaat ctccgctcaa 120
gacgctctga gacatcccta cctagctccg tatcatgatc ctaccgatga gcctgtagct 180
tcagggcctt tcgattggtc gttcgacagc gcagacttcc caaaggagac ctggaagata 240
atgatgtcag tatttgcgtt ccgtttacat tga 273

<210> 47
<211> 222
<212> DNA
<213> A.fumigatus

<400> 47
agacggcaga gatacggtgt tcaagtggac gtgtggagtg cgggctgtat ccttgctgag 60
atgctacggg ggaagccgct ttttcctggg aaggaccacg ttcaccagtt ccacctcatc 120
acaaacatcc ttggaaatcc tcctgatgcg gtgattgaga agatcaccag taagaacgta 180
agtgcacttg actcaccaag ccaagattcc cctccccact ga 222

<210> 48
<211> 567
<212> DNA
<213> A.fumigatus

<400> 48
tatcgctatg cgcggtgctc ggcccctggc gtaaaagaac aatatacgcg ggtctatctg 60
gacgatactc catgggcaca aagcacccaa gcacctaagc agtggcatgg tgccccactc 120
ccaaccattc gaaaagccat tggggcactt gggagcccta ggatagggcg tgttcctcag 180
gacatggtca tgaaactgac catccttcga gacctgtatt acttggacga cgaggaggag 240
gccgaaagaa gataccagtt gcagcgtccg agccaggacg atgattacca ttaccaggac 300
tcggacgagg gggacgacga caacgggaag gaagaggaag aggaagaaga tgaggatgcc 360
gatgacgacg acgatgacga gacagaaccg ggaactaagg gtggaaaaag atgtcccaag 420

tggacaaagc aagaggctcg ctacccaaaa cggcaacgac aacgcgagtc cagattcgag 480
tgggatctcg gtcctgatgc gacagctgaa gacgcgattc gcaagtttgg accggttctt 540
ttgggtcctg gaaggagact caaatga 567

<210> 49
<211> 456
<212> DNA
<213> A.fumigatus

<400> 49
ccgatacctg ccccatcatc tcctctgcat gccctgtggc cgataccacc gacgcacgca 60
ggagggccac gaacgactcg agcccgcaac ggtcgtcaac cctctctaca actgcccaaa 120
cgcccgcaac cccctcctcc ctgcaccgcg ccaccggatc acccacgccc gcatgctgca 180
cttcaccttc gtgcagctcg cgctgcgcgc ccaccgcttc ggccccgcct acggcatccc 240
cgtcgactcc ctctcccgtc gctggcgacg ggacggctgg tcccaccaca cccggtacca 300
catccacaag ggcaggctgc tgatgcgggt ggtgagctcg accttcgcag acccagacct 360
agctcccagc tcgatgcgcc tgctcctcta ctcgcgcgac gactactggc cgtatttttc 420
tgtctgcgcg cactggcgcg acggggaact catgga 456

<210> 50
<211> 555
<212> DNA
<213> A.fumigatus

<400> 50
agacgcaaga cacttctcct cctcctgggc cgggggccct ggatggcctt gaacctcccc 60
gagaaccgcg aatacagaat cgacttccta ggcccacatg accgatacct gccccatcat 120
ctcctctgca tgccctgtgg ccgataccac cgacgcacgc aggagggcca cgaacgactc 180
gagcccgcaa cggtcgtcaa ccctctctac aactgcccaa acgcccgcaa ccccctcctc 240
cctgcaccgc gccaccggat cacccacgcc cgcatgctgc acttcacctt cgtgcagctc 300
gcgctgcgcg cccaccgctt cggccccgcc tacggcatcc ccgtcgactc cctctcccgt 360
cgctggcgac gggacggctg gtcccaccac acccggtacc acatccacaa gggcaggctg 420
ctgatgcggg tggtgagctc gaccttcgca gacccagacc tagctcccag ctcgatgcgc 480
ctgctcctct actcgcgcga cgactactgg ccgtattttt ctgtctgcgc gcactggcgc 540
gacggggaac tcatg 555

<210> 51
<211> 213
<212> DNA
<213> A.fumigatus

<400> 51
gcttatatta acaagacaat acagggaatt cttaatgagt tctgtgtcgt ctacctagat 60
aatattctta tctactcaca gatggaagag gaatatgagt ggtatattaa gaaggttctc 120
cagcatctta atagcgcgaa cctgtatgct aaactattaa aatataagtt ttataagaca 180
gaagttaagt ttctcagctt tcttataggc tag 213

<210> 52
<211> 597
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (41),(378),(525)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 52
ggggggcgta tcttccagcc tcgtggcgtg aataattccg ntgagcaggg gctcaagaat 60
gtcatggtca actataaccc tgaaactgtc agtaccgatt acgatgaggc tgaccggttg 120
tactttgaaa atatcaacct cgaaaccgtt ctcgacatct atcaactgga gtcctctagt 180
ggcgtggtca tttcgatggg cggtcaaacc ccgaacaaca tcgccctgcc cctccaccgc 240
ctcaatgtca agattctggg tacctctcct gagatgattg acagcgcgga gaatcgttac 300
aagttctctc gcatgcttga ccgtatcggt gtggatcaac ctgcctggaa ggagcttacc 360
agcatcgaag aagccaangg attctgcgac aaggtctgct acccagtgct tgtccggccc 420
tcctacgtgc tttcgggagc tgccatgaac accgtctatt ccgagcacga tcttgctacc 480
tatctcaacc aggccgctga tgtttcacgt gagcaccccg tcgtnatcac caaatacatc 540
gagaacgcca aagagattga gaatgatgcc gtggctcgta accgtgtcat ggtctga 597

<210> 53
<211> 504
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (127),(464)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 53
aacatcagcg gcctggttga gataggtagc aagatcgtgc tcggaataga cggtgttcat 60
ggcagctccc gaaagcacgt aggagggccg gacaagcact gggtagcaga ccttgtcgca 120
gaatccnttg gcttcttcga tgctggtaag ctccttccag gcaggttgat ccacaccgat 180
acggtcaagc atgcgagaga acttgtaacg attctccgcg ctgtcaatca tctcaggaga 240
ggtacccaga atcttgacat tgaggcggtg gaggggcagg gcgatgttgt tcggggtttg 300
accgcccatc gaaatgacca cgccactaga ggactccagt tgatagatgt cgagaacggt 360
ttcgaggttg atattttcaa agtacaaccg gtcagcctca tcgtaatcgg tactgacagt 420
ttcagggtta tagttgacca tgacattctt gagcccctgc tcancggaat tattcacgcc 480
acgaggctgg aagatacgcc cccc 504

<210> 54
<211> 606
<212> DNA
<213> A.fumigatus

<400> 54
gctcgaccaa aagccattct cgcaagccag ccttctctcc ccagctcaga tttcaccgcc 60
ggcgatgttc gcagtgcgac attcgctgcc aatggtcact cacctatgac tttccaaggg 120
cctagccacc aatatgagga acacaagcag cagactggtc tgccaccagg agccctagcc 180
caggcaatga acttcaatca gatggccggc gtcactttcg ggaacgcgag ccctgcttac 240
cagatgaatg gcgacatgtt cgctagtagc cacatgaagc gggaagacac ttcgtttgat 300
ttcaacaaca tgtcttctcg taacccgtcg gaaatggacc tggagtctga tggcatgggc 360
gcgattcctt actatctctc acccaatgtc agtaagaatc aatttattga tcccaatgcc 420
cttgggggtc atgaagtcgt ttctgccgga ccgtccactc aggtcggccg catgtacccg 480
ggaatgcacc aacaacaagc agccatggca aaggcggctc aacaacaaca aaaacaacat 540
gagatgcttc gtcagcagca attccagcag gtcttcacca cggggctgga aggagccgcg 600
ccataa 606

<210> 55
<211> 288
<212> DNA
<213> A.fumigatus

<400> 55
cgcaaacata aaatgaaact ccctttgtg ctcttcacag ccttgtacgc cagttgcgct 60
ctcgctgcgg ctcttccccc tgatcatgtc gatgccgaca aggccatcct gctcctcgct 120
gatgggacta ccaaaaccat cgagaaaacg gatctcgcct ctcacctcaa tggcaccttg 180
ctcgaggctc ccaccgacaa cttcccgcgg tccatcaaat ccgtcaactt caacagcttg 240
gaggcgcggg gagggcgtct tcaccacggg gctggaagga gccgcacc 288

<210> 56
<211> 408
<212> DNA
<213> A.fumigatus

<400> 56
atttcaatag gtgtgagtgg tgctccagac cccgtccatg ttgaaattca gcagcgtgct 60
ctgccaaatg cccccgatgg atacacaccc agtacagttg gttgtcctgc cagtcgccct 120
accattcgca gtgccgcaag tttgtcgccc aacgagacat catggctgga gacgcgtcgg 180
ggcaagacta cttctgcgat gaaggacttc tttaatcatg tcaagattca agacttcgac 240
gcggcgggct acattgaccg ccattccagt aactcgtcgg atcttcccaa tatcggcatc 300
gcagtctctg gtggtggcta tcgagcattg atgaacggcg cgggtgcaat caaggccttt 360
gatagccgta cgccgtcttc accacggggc tggaaggatg cgcggtga 408

<210> 57
<211> 201
<212> DNA
<213> A.fumigatus

<400> 57
ttctatcttt tcacgcctat tatagggatg cttatattat ttattagggt taataagtct 60
aacctaaact taactaatac tatggtagtt aatttagcag aggtatctaa atatctgtct 120
atacagagct attatctact gaggattata gttaggcagg accttaagag caatcttttg 180
cttacctaca ttattaacta a 201

<210> 58
<211> 345
<212> DNA
<213> A.fumigatus

<400> 58
ttcagagaga aagtcatcaa tatgctactc aaaatggtca acatcgaaca taccgccaat 60
acggtgattg gaaaccagtt catccgtggc gtctcaggag gagagagacg tcgagtgagt 120
attgcagaga tgatgatcac atcagcaacg gttctggctt gggataatag tactcgtggg 180
ctggatgctt cgactgctct ggactttgcc aaatccctga gaatcatgac aaacatctac 240
aagactacga cgttcgtctc tctttatcaa gcatctgaga atatctacaa gcaattcgac 300
aaggtcctgg tgattgacag cggtcgtcaa gtcttcttga ggtaa 345

<210> 59
<211> 837
<212> DNA
<213> A.fumigatus

<400> 59
cgtaatcaac caccgaaccg ccgataccac cgaaccgccg cttcgccgcg aatatcatcg 60
aattcttgcc ccccccccccc ccccccaccc cccctccccc acccccccccc ccccgccccc 120
ccctcccccc acgccccccc gccccccgcc ccccaccccc cccccccgcc ccccccacac 180
ccccccccacc cgctcctccc gcctcccccc cccctcccgc caccctcccc caccccctcc 240

gcggaatcaa accacgcgca gagacacgcg ctaatcgcca tccccccac ctcccccccc 300
cgccccccc ccccccccc ctcccacgcc ccccgcccc ccccccccc cccaccgccc 360
cccccgcgcc ccccgcccc ccctcccccc ccccccccc caccccccc ccacctcccc 420
tccccgcccc ccccccccca ccccccccc ccccccgcc acccccccct gccccccccc 480
ccccccccc ccccccccc ccccccccc ccccgcccc cccctccacc ccctccccca 540
ccccccccgc ccccccccgc gcaccccccc tccccccccc ccccccccc ccccccccc 600
gccccccccg ccccccccc ctccccccc ccccccccc ctgcccccct ccccccccc 660
ccccccccg gccccccccc cgccccccc acccccccc ccccccccc ccccccccc 720
ccccccccc ccccccccc ccccgcccc ccccccccc ccccgcccc ccccccccc 780
ccgcccccc ccccccccc ccccccccc ccccccccc cccgcccccc ccccccc 837

<210> 60
<211> 441
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(23),(36),(37),(38),(39),(40),(41),(42),(43),(44),(45),(46),(47),(48),(49),(50)
,(51),(52),(53),(54),(55),(56),(57),(58),(59),(60),(61),(62),(63),(64)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 60
gcgagcgagt ttttggatag ganttcgaac ctcgannnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnggcttg ccggactata tatacccact gccctagctc ttctactttt agccgttaat 120
gcttcaacat ccatagaggt aaaattaacc ttgacaatgc ttaataacgt aatcaaccac 180
cgaaccgccg ataccaccga accgccgctt cgccgcgaat atcatcgaat tcttgccccc 240
ccccccccc cccacccccc ctcccccacc ccccccccc ccgccccccc tccccccacg 300
ccccccccgcc ccccgccccc ccacccccc ccccgccccc cccacacccc ccccacccgc 360
tcctcccgcc tccccccccc ctcccgccac cctcccccac cccctccgcg gaatcaaacc 420
acgcgcagag acacgcgcta a 441

<210> 61
<211> 561
<212> DNA
<213> A.fumigatus

<400> 61
tcgccatccc ccccacctcc cccccccgcc ccccccccc cccccctcc cacgcccccc 60
cgccccccc ccccccccca ccgcccccc cgcgcccccc cgcccccct ccccccccc 120
ccccccccacc ccccccccac ctcccctccc cgcccccccc ccccaccccc ccccccccc 180
cccgccaccc cccctgccc ccccccccc ccccccccc ccccccccc ccccccccc 240
cgcccccccc tccacccccct cccccaccc ccccgccccc ccccgcgcac ccccctccc 300
ccccccccc ccccccccc cccccgccc ccccgccccc ccccccctcc ccccccccc 360
ccccccctgc ccccctcccc ccccccccc ccccggcccc ccccccgcc ccccccacc 420
ccccccccc ccccccccc ccccccccc ccccccccc ccccccccc cgccccccc 480
ccccccccc cgccccccc ccccccccgc ccccccccc ccccccccc ccccccccc 540
ccccccccg ccccccccc c 561

<210> 62
<211> 831
<212> DNA
<213> A.fumigatus

<400> 62

tcaaccaccg aaccgccgat accaccgaac cgccgcttcg ccgcgaatat catcgaattc 60
ttgccccccc ccccccccc caccccccct cccccacccc ccccccccc gccccccctc 120
cccccacgcc cccccgcccc ccgccccccc acccccccc ccgccccccc cacacccccc 180
ccacccgctc ctcccgcctc ccccccccct cccgccaccc tcccccaccc cctccgcgga 240
atcaaaccac gcgcagagac acgcgctaat cgccatcccc cccacctccc cccccgccc 300
ccccccccc ccccctccc acgccccccc gccccccccc ccccccccac cgccccccc 360
gcgccccccc gccccccctc ccccccccc ccccccaccc ccccccacc tcccctcccc 420
gccccccccc ccccacccc ccccccccc ccgccacccc cccctgcccc ccccccccc 480
ccccccccc ccccccccc ccccccccc gccccccct ccacccctc ccccacccc 540
cccgcccccc cccgcgcacc ccccctcccc ccccccccc ccccccccc ccccgcccc 600
ccccgccccc ccccctccc ccccccccc cccccctgcc cccctccccc ccccccccc 660
ccccggcccc cccccgccc ccccacccc ccccccccc ccccccccc ccccccccc 720
ccccccccc ccccccccc gccccccccc ccccccccc gccccccccc ccccccgcc 780
ccccccccc ccccccccc ccccccccc ccccccccgc ccccccccc c 831

<210> 63
<211> 567
<212> DNA
<213> A.fumigatus

<400> 63
gggggggggg gggcgggggg gggggggggg gggggggggg gggggggggg ggggcggggg 60
gggggggggg gcgggggggg gggggggggg gcgggggggg gggggggggg gggggggggg 120
gggggggggg gggggggggg gggggtggg gggggcgggg gggggccgg gggggggggg 180
gggggggagg ggggcagggg gggggggggg gggggagggg gggggggcgg gggggcgggg 240
gggggggggg gggggggggg gggggaggg ggggtgcgcg gggggggcg gggggggtgg 300
gggagggggt ggaggggggg gcgggggggg gggggggggg gggggggggg gggggggggg 360
gggggggcagg gggggtggc gggggggggg gggggggtgg gggggggggg gcggggaggg 420
gaggtggggg gggggtgggg gggggggggg gggagggggg gcgggggggc gcgggggggg 480
cggtgggggg gggggggggg gcgggggggc gtgggagggg gggggggggg ggggcgggg 540
ggggaggtg gggggatgg cgattag 567

<210> 64
<211> 831
<212> DNA
<213> A.fumigatus

<400> 64
gggggggggg ggcgggggg gggggggggg gggggggggg gggggggggg gggcgggggg 60
gggggggggg cgggggggg gggggggggg cgggggggg gggggggggg gggggggggg 120
gggggggggg gggggggggg gggggtgggg ggggcggggg gggggccggg gggggggggg 180
gggggggagg gggcaggggg gggggggggg ggggagggg gggggggcgg gggggcgggg 240
gggggggggg gggggggggg gggggaggg gggtgcgcgg gggggggcgg gggggggtgg 300
ggagggggtg gaggggggg cgggggggg gggggggggg gggggggggg gggggggggg 360
gggggcaggg gggggtggcg gggggggggg gggggggtgg gggggggggg cggggagggg 420
aggtgggggg ggggtggggg gggggggggg ggagggggg cgggggggcg cgggggggc 480
ggtgggggg gggggggggg cgggggggcg tgggaggggg gggggggggg ggggcggggg 540
ggggaggtgg gggggatggc gattagcgcg tgtctctgcg cgtggtttga ttccgcggag 600
ggggtggggg agggtggcgg gaggggggg ggaggcggga ggagcgggtg gggggggtgt 660
gggggggcg gggggggggg tgggggggcg gggggcgggg gggcgtgggg ggaggggggg 720
cgggggggg gggggtgggg gaggggggt gggggggggg gggggggca agaattcgat 780
gatattcgcg gcgaagcggc ggttcggtgg tatcggcggt tcggtggttg a 831

<210> 65
<211> 858
<212> DNA

<213> A.fumigatus

<400> 65
ggggggggggg gcgggggggg gggggggggg gggggggggg gggggggggg ggcgggggggg 60
ggggggggggc gggggggggg gggggggggc gggggggggg gggggggggg gggggggggg 120
ggggggggggg gggggggggg ggggtggggg gggcgggggg ggggccgggg gggggggggg 180
ggggggagggg ggcaggggggg gggggggggg gggaggggggg gggggcgggg ggggcggggg 240
ggggggggggg gggggggggg ggggagggggg ggtgcgcggg gggggggcggg gggggtgggg 300
gaggggggtgg agggggggggc gggggggggg gggggggggg gggggggggg gggggggggg 360
ggggcagggg ggggtggcgg gggggggggg gggggtgggg gggggggggc ggggagggga 420
ggtgggggggg gggtgggggg gggggggggg gaggggggggc gggggggcgc gggggggggcg 480
gtgggggggg gggggggggc gggggggcgt gggaggggggg gggggggggg gggcgggggg 540
gggaggtggg ggggatggcg attagcgcgt gtctctgcgc gtggtttgat tccgcggagg 600
gggtgggggga gggtggcggg agggggggggg gaggcgggag gagcgggtgg gggggggtgtg 660
gggggggcgg gggggggggt gggggggcgg ggggcggggg ggcgtggggg gaggggggggc 720
gggggggggg ggggtggggg agggggggtg gggggggggg gggggggcaa gaattcgatg 780
atattcgcgg cgaagcggcg gttcggtggt atcggcggtt cggtggttga ttacgttatt 840
aagcattgtc aaggttaa 858

<210> 66
<211> 543
<212> DNA
<213> A.fumigatus

<400> 66
gttgtcacgc attgcgcggc tccttcggcc cccgtggtga agacgttact ggcgaattct 60
acatttgcca accatcctta tgcacagaag cagattatgg aggcttgcac cagcatcctg 120
aacgaccgct tcttcagcac tagtgatcag gttgaaaact gcatcaagcc ttataagttt 180
gaaatcgaag ttgaggaccc agaatgggca aagggcaggg agaatgtcag tcgcgtattg 240
aaggaggagc tgaaagcttg cgacgctgct taccgacgtg tcgaagaggc cgttgggaag 300
aagaaattca aggatgtgat ggcattcgtt gataaagtca gaaagggcga agtagtcctg 360
gaaggcgatg gcgccgctgg tgcaggtgga ttcagctccg ccctgttgaa taaaggtatg 420
ttatgcctgt cacagttgac cgttcctgct agagtactaa cgaagagaac aggccgggaa 480
ggcgtcttcc tgcgagaccg tgccgacctg atcaaaatgc gcctactcgc catccgttcc 540
aag 543

<210> 67
<211> 207
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (177)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 67
ttccctagat taataaataa tagtagttct gtgaatacat tcgctaagat tattatctat 60
tactatttag ttaatagcct gaagcctaag ctacttatta gaactaatat catctataat 120
aaaggattca tgcttaattt taaatttagc attatagtac ttagttctta tattgtntcc 180
acgcaggggc cgaagatacg cgcaagc 207

<210> 68
<211> 237
<212> DNA
<213> A.fumigatus

<400> 68
gtctacgctt tccccgttga ttctatatcg gatttgctta ctgacatctc tagtcgcatg 60
ggaaaaggcg gctcctccgg aaaggacgcc ttgggtatcg cggaaggaaa tcggatgatc 120
ttcgaccacg tttcggtgtc gtgggggcgt gatgagacat tctccatcaa tggagatgct 180
agtaacatca cgtcttcacc acggggctgg aaggatgcgc aagaacgtaa gcagtca 237

<210> 69
<211> 366
<212> DNA
<213> A.fumigatus

<400> 69
gctagcattg ccacctcaat ctctcgatcg aacaacgaac ccgaacacac gaaccatcag 60
caacaacaac ctacccctac gaatgatttc gacgaccacc tcaacaactt cccttccct 120
caaacaatca gctcattcat ccctgcagat ctgctgcgca ttgacactga ctcctttccc 180
gattttatat ctccggaccc gaatatctcc tccgtcccgg aactagatgt ggactggacg 240
gacgaacttc tcggaggcac agagctaagt tcagagtatc ccgagacggg ctcggtaagc 300
catagccatg gtggtatcac tggcgatctg gacagggatc tgggtctggc tcttgattca 360
tattaa 366

<210> 70
<211> 438
<212> DNA
<213> A.fumigatus

<400> 70
ttgactatca ttattgatta tcattattgt catatctttc tgtcgtttct gtattttgtt 60
tggaatgatt actcgctttt gcaggtagta atggcttctt ccgacagcgc tactcgccct 120
tcgttcaacg cggatcagcc ggattcccag tctcagttac ttcaacccga gtcgaccttg 180
acagttggac agtcagttac cttgactttg ggtaacgatg ctcttgttat tgttggtgag 240
cagtgtctga caatccatgc ttgcatgtca tggttgcaca ttgcgcatac taaccagctt 300
ctcgttcttc taacagacga tcgctccacc caaaaaccgg accgcggctg ctgcggatta 360
ctatcaaact cgagtaggtt tttccagtac tcctctttct acctcgtcaa cattagcgtg 420
tgtctcgggt atcaatag 438

<210> 71
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (236),(243)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 71
gtggataata cagagaccaa ggaaactcaa tctatcgcat tgtacaatat ccttcatgca 60
gaagtctcct ctgctggtct gactattaca tatgcggacc ctgtaaccaa gcacgatgtt 120
accgttggtc gccttgcaat acaccattgc agacgaagac aaagcaaagg ccgaaacatt 180
tgcggccagg gtcttcacca ggggctggaa ggagccgcgc tgagcggata tcaggnttca 240
atntca 246

<210> 72
<211> 414
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (318),(320)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 72
ctcggatcct tcgacccccg tggtgaagac agagccgatt atagctacct ttcccagcag 60
ctggctagtg ctactccctc tgggaccaag aagagtgaat acaccccagc aaacagtgct 120
cttcagtcct gcccgccggt caacggcgat tggcttgcaa ctgcgagtcc ccttccgccc 180
tcgccaaacg gcgacctgtg ctcgtgcatg gaggaaagct taagctgcgt attgaaggac 240
acagtgtcgg gcgaccagat cgagaagctc tttgggaccg tctgtggcta tgatgtctgt 300
gaaggagttg actacccnan accggcctac aacccccaaa ccccccgggg ggggccccca 360
agtatggagc gtacagtgtc tgcagcccca agcagcagtt gtcttatgcc atga 414

<210> 73
<211> 207
<212> DNA
<213> A.fumigatus

<400> 73
tcaaactatt ctactatgct aacactatgg ttccctagat taataaataa tagtggttct 60
acaaatgcat ttactaagat tactatctat tactatttag ttaatagtct aaagcctaag 120
ctacttatta gaactaatgt catttatagt aaaggattca tgcttaattt taaatatagt 180
attataataa ttagttctta tagttaa 207

<210> 74
<211> 252
<212> DNA
<213> A.fumigatus

<400> 74
aggtctcttc tactagtata tttagttagt aaactagcag tatatttaaa gactgattta 60
ctagctaact ataactttat ctttaaccta ctagatggat caaccttaaa tagagctact 120
atatatatat atatagttaa ctataagttc tcctttatta aagtctgcaa taaaacacct 180
actctaatta tagttactta ttatgcttat atagggacta tctctaatac taactttatt 240
actgcctact aa 252

<210> 75
<211> 831
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (86),(107),(204)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 75
ccacagaatg caatagaaag gcgaagccgg aactgccccc caaaagtgtt gatttcatcc 60
ctattgctat cccctcccat cctctntacc atgacgggac ccacganaat cagcatcctg 120
ggccaggaga gtatagtcgc tgactttggt ctctggcgca actatgtcgc caaagacctg 180
attagcggct gtccctctac aacntacgtc ctgatcaccg acacgaatat cggatcgatc 240
tacacccccg gcttccagaa gtccttcgag gaggccgccg cctcggtctc tccgtctccc 300
cgcctattga tctacaatgc tcctccaggg gaagtctcca agtcgagaca gacaaaggca 360

gatatcgagg attggatgtt gagtcagagc ccgccatgcg gccgagatac tgtggtcatt 420
gcgctgggtg gaggggtcat tggagaccta acaggtttcg tcgctgcgac ctatatgcgc 480
ggtgttcgct ttgtacaggt tcctactacg ctgctggcta tggtggactc ctcgatcggt 540
ggaaagacgg ctattgatac ccctttggga aagaacctga tcggcgcgat ctggcaaccg 600
tcaaggatct atattgacct ggaattcttg gagactcttc ccgtcaggga gttcatcaac 660
ggtatggctg aggttatcaa gacagccgcc atctctagcg aagaagagtt caccgctctc 720
gaagacaatg ccgaaactat tttgagcgct gttcggcgtg aggttaagcc gggtcaacgg 780
cgattcggtc ttcaccacgg ggctggaagg atccgcggtg gcgctttgaa c 831

<210> 76
<211> 465
<212> DNA
<213> A.fumigatus

<400> 76
gttcctagtt ttgtgaaaga ctgcgcctcc atactgcctg ttcacaacga gttccagccc 60
tccgcctcac ttccaaatcg ccaaaggcga acaccagcgc agggccagaa ctcgggggt 120
gcaccactgg ctggaccttc gcaatctttc gttgacccgt catataatct cagctccgga 180
cctgagacgg taggctcggg gacagatatg gatctttcgc caggtttcga cgacaatgga 240
aatccgatat cagaaggctc aacatcgtcg gctgtgaaat cctcctcaaa tacatcttac 300
gtcggcgcta gtagcacatc atcgccaaag gtacgacaac attcgcccct caatttctcg 360
aatcgaacac ccagccatac gctcggtagc agtgagtcgg tgcacgcgcc atcgggcacc 420
gcgaagtctt caccacgggg ctggaaggaa ccgcgctcca gagcg 465

<210> 77
<211> 411
<212> DNA
<213> A.fumigatus

<400> 77
acatcccagg cccccgacct gcactaccac gatgggacat actacctcta ctacgcggtt 60
tcctcgctcg gctcgcaaaa ctcggccatt ggagttgcaa cctccaagac catggaagcg 120
ggcagctgga ccgaccacgg cacgaccggc atcgagtcca cgccctccag cccgtacaac 180
accatcgacg ccaactggat cgccgtcggc ggcacccagt acgtgaattt cggctcctac 240
tggaataacc tgttccaggt ggagatggag aacggtctca aagtgaagag cggcgccacg 300
ccgcaccaga tcgcctataa tgccagcggg atccatcgcc aggaggcggc cttcatgttc 360
gagcgcaaca attacttcta cctgactttc tccgggggca ttgcgctggg t 411

<210> 78
<211> 345
<212> DNA
<213> A.fumigatus

<400> 78
agcgcggatc cttcgacccc cgtggtgaag actacccagc ggctctatca tcgacctaga 60
cggcaagacc aacctctggg tatgctccct tttcctttta cttctgtcat gcctcctaaa 120
catcccaggc ccccgacctg cactaccacg atgggacata ctacctctac tacgcggttt 180
cctcgctcgg ctcgcaaaac tcggccattg gagttgcaac ctccaagacc atggaagcgg 240
gcagctggac cgaccacggc acgaccggca tcgagtccac gccctccagc ccgtacaaca 300
ccatcgacgc caactggatc gccgtcggcg gcacccagta cgtga 345

<210> 79
<211> 252
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (249)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 79
gtgtattgcg gtgctgtgat tgagctgcgg tgcgttattg gaaaggcata tcggattctt 60
ttctttttta aattcaaggt atcatttctg gatatataca tcgtggtatc cgagaagcgc 120
gtgcaggtcc cagaggcaat ctaccgtata gcaacagcga caagagcgct agatacctgc 180
cacaactcaa ctgtatgcga ggttctcata tgtctctgta cctcatgtcg gctaaatgta 240
aaagatatnt ga 252

<210> 80
<211> 183
<212> DNA
<213> A.fumigatus

<400> 80
tccttccagc cccgtggtga agacaccacc atcgacaagg tggtcaaggt taatgtattt 60
ctgtcggaca tggataactt tgccgatatg aattcggttt atatgcagta ctgggggggat 120
gtgaagccct gtcggacgta tgtcacctcc cgcttgtgta ttcctgtgct ctgggggatc 180
tga 183

<210> 81
<211> 396
<212> DNA
<213> A.fumigatus

<400> 81
ggcatcttca cacacactac atccatgatt tcagggacgc tcacagaagc cctagagctg 60
gacaatcact acctacggta tcatgccgac aaagcacgtc gaatcaagga gaggggaacg 120
aaatgctgca aaaccgcacc cgaagcgatg gacggtgcca ttgagctact ggaagagctg 180
tgcgtgccaa acacccttta cccagacagc ataacacaac cttacacctt aatacaatat 240
agtacctcct acctccccga aagatacccc tccatgttcc gcaaaaccgc aacaggcatt 300
gccaacacta tcactggcga atccttcaac accacccagc gccccctccc cgaggacccc 360
atgacgacct gcgcgcgact catccaagac gacctg 396

<210> 82
<211> 204
<212> DNA
<213> A.fumigatus

<400> 82
cttagcgcgg atccttggcg ccttgtggag aagatccatc agattgtgcg cttgacctat 60
ttcagtgaag acctcagccg tcacgtcatc gtccaggtcg caaaagccat cgagtatctc 120
catgagactt caggtgttgt tcaccggtac gtaccatcaa acatcagtga tttatatata 180
tatatttgtg acaaccagta ctaa 204

<210> 83
<211> 342
<212> DNA
<213> A.fumigatus

<400> 83
caaccagtac taatcatgtc gttgtctagt gatatcaagc cacaaaacct cttgttctac 60
cccataccct ttgtgccgag taagaaccca aggcctgtcc agcctggaga tgaagagaag 120

gtggatgaag gcgaattcat tcctggcgtt ggatcgggtg ggataggcac gatcaaaatc 180
gccgactttg gtttgtccaa agtcatctgg gacagccaga ctatgacccc ctgtggcacc 240
gtcggctaca cagcgcccga gatcgtcaag gacgaacggt attcgaagag cgtcgacatg 300
tgggcccttg gctgtgtgct ctacactctg ctatgtgggt tt 342

<210> 84
<211> 354
<212> DNA
<213> A.fumigatus

<400> 84
ataatgctga ccgctactgc tatcctccag gccctggctc tcatgtccct cgttggaaat 60
atccctctgt cactctctga gctacatgct ctgtcctctg atatattgga tctggctgga 120
gacacctcgg ttgatgcatc gtggtatacc aaacggctgt ctgtctcggc catctacgcc 180
agtgccgagg ttttcatgac ccgtgactcg agtccggatc tctccgctac gcaggcgttt 240
gtggaccgtc gcatcgagga taacaagtat atcggtgata agattactgg tataaagcaa 300
tgcctgggct tcatgggttt cactgctatt ggactgggag gagttggggt ttga 354

<210> 85
<211> 384
<212> DNA
<213> A.fumigatus

<400> 85
aggagttcga aactccaaag gctggcaaaa ttactcccag ataggcttat ctgtaatggt 60
aaatacagtc ctactggtaa aagcaaccga aagaaggtgt atcttataca atgctggaac 120
tctacatcag attatgaatc caatatccac tccacctata ttcctcattt cagttgcagc 180
ctgtaccctt caagactaga tcttcaaacc ccaactcctc ccagtccaat agcagtgaaa 240
cccatgaagc ccaggcattg ctttatacca gtaatcttat caccgatata cttgttatcc 300
tcgatgcgac ggtccacaaa cgcctgcgta gcggagagat ccggactcga gtcacgggtc 360
atgaaaacct cggcactggc gtag 384

<210> 86
<211> 198
<212> DNA
<213> A.fumigatus

<400> 86
ttaatgcaga gatataggcc tctatctagc ttctttataa agagtactag tgctactgct 60
gggctagata attccctaat ctacccccttc ttaagtattt tattaaggta tttacacaga 120
gcctctagct ttagctataa tatagtaaat agggggctat atagcagtaa cttcctatta 180
agtagctata tcttataa 198

<210> 87
<211> 306
<212> DNA
<213> A.fumigatus

<400> 87
ttcatcatgc ctctacaaac ttatcatcat acctcgtcga tcaaaggcct gtcaagcatc 60
accaccttga ttgtcggggc ttcggagtct atcctcgtag acccgccatt cctgattcct 120
gatgctttat ccgtcgtacg ctggatcaaa gaaaccaccg aaaatcccct taaagccgtc 180
tttgtcacgc atcatcaccc tgatcatttc ttttcggcaa atccgattct ggatgcgttc 240
ccctcggcca aattctatgc cgcctcgtat gtcctggagg gtatcaaccg cgaatatgac 300
gacaag 306

<210> 88
<211> 513
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (318)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 88
gtaaacggat ccggccaact ggaaaattcg ggtttgccta aaaagccggt ttccaagaag 60
attgtcctcc cggaatttgg atttttcaaa aacccaagtt ggtttcacaa acagcgggca 120
tattcttcat gggaaggggt ctttttgttc ggatcaagta taatctcttc aaaagctcaa 180
gcccacggag tctctacaaa ctggtcatac caaatggtag ctttcctcaa cgtcggctcg 240
gtcttagaag aagcgatccc cggattcatc gcagattttc ctggtcgctt caatgcgctg 300
attgtcacag tggccctntg cttcttgtgc aacgcgtgtc tgtggcttcc tgctgccggc 360
aacgtcccct taatgattgt ttactgcgtg atatttgggt tcgccagtgg cagcaatatc 420
agtcttacgc cagtctgtat tggacaactc tgcaaaatcg aaaattacgg aagatactac 480
gccacggcat ataccatcgt aagcttcggg tga 513

<210> 89
<211> 423
<212> DNA
<213> A.fumigatus

<400> 89
tactctcacc gggattccaa ttgctggcga gattctcagc cgttgcaatg gagaatattg 60
gggtctgatt gtctttacaa cttgctgtta tgccctgggt ctcgcatgcg tcactgcagc 120
gaagttaatt catgttggct ggcgtcaacc gtgggacgtc tactgaatcc gctctcattt 180
gaatgccttt ttagacgtct gccggcgtac ttacatccaa aaaaacacca gaagatgcag 240
cagcaattgc agagggaaat tgatgggagt tacggaagga cggctggaag ccaacctacc 300
gacaaaaaaa acacacgaga ccctcagaac agaaatcttg agaataattt ttcttcaaat 360
tacgcgactg gccgtcgtac tcgcagcttg gtacaagatg atgatgagat gatccagatg 420
tga 423

<210> 90
<211> 189
<212> DNA
<213> A.fumigatus

<400> 90
tggctaactg acgcttggat tagtactctc accgggattc caattgctgg cgagattctc 60
agccgttgca atggagaata ttggggtctg attgtcttta caacttgctg ttatgccctg 120
ggtctcgcat gcgtcactgc agcgaagtta attcatgttg gctggcgtca accgtgggac 180
gtctactga 189

<210> 91
<211> 201
<212> DNA
<213> A.fumigatus

<400> 91
ctgatggggg atagtcttcc gttgaatgtt cccgagacgc cggctttcgg acgggaagct 60
ttccagcata aaatcaagtt actggtcgag ggcgtggcgt atgatgatac gtatactttg 120
aacacacaga gcggtacgca atgggatggg ttcagacatg gtcttcacca caggggccga 180

aggatccgcg caatgcgtat a 201

<210> 92
<211> 207
<212> DNA
<213> A.fumigatus

<400> 92
cacactcccc acccaaccac cacccacctg ccccccccc ccccaccta ctccccccc 60
ccgccccccc ctacccgctc ccccctcccc acccccccc ccccacccc ccacccgccc 120
ccccccccgcg cctccccccc ccccccccc ccccccccc ccccccccc ccccacccc 180
cccccacggc cctatatctt tgattaa 207

<210> 93
<211> 441
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (196)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 93
atattaacta cacccccccc ccccgcgcc atcctacccc ctccctacgg accacaccct 60
cccgctcaac cccgcccctta ccacgccacc cccccccgac cccccccttc ccccacccaa 120
tccccgctgc acccccagcc cctaacctac gaatacccct atagtatcac gcccacccca 180
cccccacttt tagaanagga agctagcacc cctgccctta aaccacaccc gcccctaaca 240
cactccccac ccaaccacca cccacctgcc ccccccccc cccacctact ccccccccc 300
gccccccccc acccgctccc ccctccccac ccccccccc ccacccccc acccgccccc 360
cccccgcgcc tccccccccc ccccccccc ccccccccc ccccccccc ccacccccc 420
cccacggccc tatatctttg a 441

<210> 94
<211> 195
<212> DNA
<213> A.fumigatus

<400> 94
tattggtctt attctatatg tttattcaaa tggattgaga ggtgtatcat gctatccctc 60
gtaacccttc tatctgggac cgctggtctt gcattgaccg cgtcggcaca gtatttccct 120
cccactcccg agggtctcaa ggtcgtgcat tcgaagcacc aggagggcgt gaagatttcg 180
tacaaagaag tatga 195

<210> 95
<211> 195
<212> DNA
<213> A.fumigatus

<400> 95
cttactacta ataaccaaga tactataagt ataggagtta gcctattctt cctagactat 60
aaatataata ttaaattatt aaaagttaaa ctactagatt ataagggagc tactatagat 120
atagcctact tattaaagaa gaaggctaaa gtaattataa ctaaaataaa agaagctatt 180
aatatagcag tgtag 195

<210> 96

<211> 240
<212> DNA
<213> A.fumigatus

<400> 96
attaatcccc tagggagaat cgatttggtc ttgttatatt caaggggggc catattggtg 60
acgatcttgt tcttcacagt catgccgagg aagcacccaa gcaatactga ggtttggaga 120
agatatcaca acaacaccgg cggatggtcg gatggtgttt gtttcgtaat aggactgatc 180
aacccggctt tctcagttgg agtgcctgac tgcatcactc atctttccga agaaggttag 240

<210> 97
<211> 543
<212> DNA
<213> A.fumigatus

<400> 97
caatgttttt acatagttat gaagccccaa attagagtcc ctcaaggaac gatgctccag 60
atgttaactg ccttcgtcac cacttttgta tacctgattg cgttgttgta ctccattgag 120
aacctcgata cggtcttaca tagcgagttc tcgtcgttcc caacagcaga aatctaccga 180
caagccacag gatctaggca gggtgcagtc ggactggttg cggtgctctt cgtgactgcg 240
tttccaaccc tagttggagt ctacatcact ggaggtcgca tgtggtggag tcttgctcga 300
gacaaggcaa cgcctttcgc ctcatacttc agtaatgttc atccaacaca gaagaatccc 360
gtccgggcca ctgtagctat ggctggtatg gtgagtttcc tgggttgcat atacataagc 420
agtactaccg cgttccaggc actgctatcg tcctatgtcg tgctgagcac cctgtcctat 480
ctaggggcta ttctgcccca tgtactgaca ggtcggtctt caccacgggg ctggaaggat 540
ccg 543

<210> 98
<211> 276
<212> DNA
<213> A.fumigatus

<400> 98
aatccagaat gtaagtggat tcgatctcaa tgcttctcgc aaggccctaa ttcggcttct 60
cagaataaaa tcccttcact tagggagcaa tgggattgcg ccaagtttgt ccttcttagc 120
cacttcactg tggaacttcc gcagatttgg ttggtgtctc aatttgaccg ggctccatgg 180
tatgtttcta acagtatgtc cgcaggcttt tccaccccat ggctcaattc ttcggtctgt 240
ctacgtcggt tccttttccc tccgtttgga ccatga 276

<210> 99
<211> 498
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (339)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 99
cagtatgtcc gcaggctttt ccaccccatg gctcaattct tcggtctgtc tacgtcggtt 60
cctttttcct ccgtttggac catgatgtac cagatagcca ttttctttgt tcttgaggat 120
acatggcatt atttctctca ccgtgccctc cattggggcc ctttgtacaa ggctatccat 180
aaaattcacc accagtattc ggcacccttt ggtatggccg ccgaatatgc atcgcctatt 240
gaggttatga ttcttggatt tgggaccgtt ggatgcccca ttctttggtg tgcattgacc 300
ggcgaactgc atatcttcac gatgtatgtc tggattgtnc tacggctttt ccaggccatt 360

gatgcgcaca gcggctatga gttcccttgg agtctccatc atttcttgcc tttttgggct 420
ggagctgatc accatgatct tcaccacgaa gaaatttgtc ggcaactatt ccgagtaact 480
tccggtgggt gggaataa 498

<210> 100
<211> 198
<212> DNA
<213> A.fumigatus

<400> 100
agacacccgg aggacgagag ctttcgaatc agaacgccgg ctgactcggt cattggccct 60
atcgcagatt ccgcgaccgc gctgcgccac gttcgcttgt tcgtcgactt catggacatt 120
gagactatcc ccttgtggaa gcgagctgcc ggcacgacgc agcgaaagat cgcttttgcg 180
gacctgtgga tatcatga 198

<210> 101
<211> 732
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (5)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 101
atganaatga aatctgtcga gcgcgcatcc ttccagcccc gtggtgaaga ctacatgaac 60
aaccaggatg agatgtggtc gtcggatccc agtgatcagt gcctgctcga cagtagcgat 120
cccaccgatc ccctggcgtt tgttaatgcc acctgccggc agggtaacat gccctcgcac 180
tatctcgagg tgcacagcgc caaggacgtg atcgaggcct tccgatactc gaactgctcc 240
ggccagcggc tggtcatcaa gaacagcggt catgactatc tcactcgcag cagtggccgt 300
ggaacgctgg ccctgtggac tcgcaacctg aggtccatcc gctacgaccc ggcttttgtt 360
cccagcggct gcaaaaggac cggtctcaag tataaagcca tcaccgtcgg cgccggagtc 420
aacttcgacg aggcgtacgc ctttgcgcag cagcacaacg tcaccatcct gggcggatac 480
tcgtccaccg tcggactctc gggcggttgg gtcctgaacg gcggccactc gatcctcagc 540
cccgtgtacg ggctcggggt cgaccgcgtc ctggagttca aggtcgtcac tccagacggc 600
gtcttccgga ccgccaacga gtaccagaac gccgatctct tctgggccct gcgcggcggc 660
ggcggcggaa cctttggcgt cgtgctcgaa tccacccacc gcgtggagcc ggccgtccgc 720
tttgtgtctg cc 732

<210> 102
<211> 351
<212> DNA
<213> A.fumigatus

<400> 102
ctggtccacg tcccaaacca cccggctccc acgcggggat cggtttgggt tcgtgtttta 60
ccgcttatag ccgagaacca atggctgcat ctgtccctca tcaccgacct caagaaggcc 120
tgcaaggagg tcttccccgt cgccgaatac gcctacacca caattcccac ctacccctcc 180
ggccagatcg gcttcatggt ctgctgcaag gacgccaccc gcaatgtccg tgagcccgtc 240
cgcacttggt cccgtgagga ggaggagcgt ctctgccgct actacaacca ggacattcac 300
cgggccagct tcgttctgcc caactttgca cgcaaggctc tggatgtgtg a 351

<210> 103
<211> 315
<212> DNA

<213> A.fumigatus

<400> 103
tttcatttct tagtgtcatg tttacggctc gatgaatctc tgttcctttt caaatgtttt 60
tacaagtcct atctccccat ggtgtggtgg gagcttcttc tagatttaga ggatcaaaac 120
aaaattatgt gtcataatgt agttgtcgtc cattgcgctt acaagggatc gtcagtgtgg 180
aagacaggtt caaaatctaa tatcataaga acatcatttt cattgagtaa ttacatttac 240
atgctaaccg taagtttgat tcacacatcc agagccttgc gtgcaaagtt gggcagaacg 300
aagctggccc ggtga 315

<210> 104
<211> 195
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (172)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 104
acgttggtca atgatcactc tgacctccaa ggagatgctg acacgattga gtatacgatc 60
ctccacaccg agttctaccg gggacgagcg caacctggca tgttgatcat ttggctccga 120
ctcacatacg tgcttctctg gcgccttggg atgtctggca tttgggctcg gngcaacaaa 180
tgtgactttg gccct 195

<210> 105
<211> 522
<212> DNA
<213> A.fumigatus

<400> 105
tggctcggct ccttccagcc ccgtggtgaa gacgtcctcg cctgccgagt ccttgggcca 60
gtatgtgggt cgctgctgtt cgcgttcttt gatgacctca actgtgtcga cagtctcgtc 120
gctgttggcg aactgctgaa agtacttgcg tcgcttagga ttgcggactg tctcggtcca 180
ctcacaaaag tagctgttca ccagttcttc catctgctgt tccatctcag cgccaatccc 240
caacttgtcg tcgatgatca cctctcgcag atagttgata ccgccgggga ggttctcgat 300
ccaccgggca gtccgctgaa gtttgtctgc cgttctaata tagaatatga gatatcgatc 360
aatgatagga atgactttct caggaggcac atctttcgca agcaattccg aatgccgggg 420
tttggcacct ccattgccac caacgaaaat gttatatccc ttctcggttg caatcaatcc 480
gaaactgatc ggaaattagc tgcttgttca ttcatagtct aa 522

<210> 106
<211> 186
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (47)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 106
ttggtcaagt ggcgaaaaaa atccaccttt tactgcagga ttacagnagg tcagcgtatt 60
gacttgtttg gtgccaagaa gcaagatttt ttcgacatct ggacgaagct cgtggacgcg 120
gaaatggaga gtggtcatgc ttatgccaag tcgctccgaa caatcaaggt actgccgccc 180

gtttaa 186

<210> 107
<211> 318
<212> DNA
<213> A.fumigatus

<400> 107
cttgtttggt gccaagaagc aagatttttt cgacatctgg acgaagctcg tggacgcgga 60
aatggagagt ggtcatgctt atgccaagtc gctccgaaca atcaaggtac tgccgcccgt 120
ttaagattga gtttcctagc tgacgtattc tatcagagct gcgtcggaac tacatggtgc 180
cgctttggta tcggcgacag tgttggaatg gcgatccgac tggaggagcg ctacaagagt 240
attcggtcac cccataagct caagggtgcg gtatctggtt gtgtcagaga gtgcgccgaa 300
gctcagaaca aggagtaa 318

<210> 108
<211> 495
<212> DNA
<213> A.fumigatus

<400> 108
tttccgatca gtttcggatt gattgcaacc gagaagggat ataacatttt cgttggtggc 60
aatggaggtg ccaaaccccg gcattcggaa ttgcttgcga aagatgtgcc tcctgagaaa 120
gtcattccta tcattgatcg atatctcata ttctatatta gaacggcaga caaacttcag 180
cggactgccc ggtggatcga gaacctcccc ggcggtatca actatctgcg agaggtgatc 240
atcgacgaca agttggggat tggcgctgag atggaacagc agatggaaga actggtgaac 300
agctactttt gtgagtggac cgagacagtc cgcaatccta agcgacgcaa gtactttcag 360
cagttcgcca acagcgacga gactgtcgac acagttgagg tcatcaaaga acgcgaacag 420
cagcgaccca catactggcc caaggactcg gcaggcgagg acgtcttcac cacggggctg 480
gaaggagccg agcca 495

<210> 109
<211> 279
<212> DNA
<213> A.fumigatus

<400> 109
gcactcatat gttatcttcg agcccggcgt gaagacatcc agctgaactc ttcgggattc 60
caacagccca atggccaagg cgtagtctcc agggccatac cggaaactcc ccttgaatac 120
aacctcttta tcacaaacct ggcccacggg aaacatcaaa gtcgggtttc cgagacccac 180
ctggacgaat gtgcctcccg agcgaagaat atcgagaccg caattcaagc atggctcggc 240
ccctgtggcg tcgagaataa tatcggcccc atcttctag 279

<210> 110
<211> 555
<212> DNA
<213> A.fumigatus

<400> 110
tccctgagag atggtgcgct ggtggagccc cttagtgtcg cggttcatgc ctgccgcttg 60
gctggggaca tgcagaacaa gagcgttgtg gtcttcggtg ccggtccagt tgggttgctt 120
tgttgctctg ttgcgtctgc gtttggagca gcaaaggtgg tggcggtcga tgttgtgaaa 180
actcgactgg ccactgcaac caaatacggt gccactcacc ggtacgagat ggacgctgag 240
aagaaaaatg ccgaggaact atcggcaacc gcagccctag aagatggggc cgatattatt 300
ctcgacgcca caggggccga gccatgcttg aattgcggtc tcgatattct tcgctcggga 360
ggcacattcg tccaggtggg tctcggaaac ccgactttga tgtttcccgt gggccaggtt 420

tgtgataaag aggttgtatt caaggggagt ttccggtatg gccctggaga ctacgccttg 480
gccattgggc tgttggaatc ccgaagagtt cagctggatg tcttcacgcc gggctcgaag 540
ataacatatg agtgc 555

<210> 111
<211> 366
<212> DNA
<213> A.fumigatus

<400> 111
aataaagagg atgcgggtgt cttgatggaa cagaaggccg ctctagaaaa acggaaaaaa 60
gaggctgaag agcatgcctc tgaacaggaa agcaggagag atcgtaagat tcggacaatt 120
ggaaactatg ttcatgagtc agtgcctgtg agcaataatg aggtgggtta tctttcgaga 180
tcttgttact ggcatcggaa actcatatgc ttaaaggatg acaatgtggt ggtcagaacg 240
tgggctccgg aaaacgtgtt tgtagagaag cgcaactgtc tttctcatca cgaagtcctt 300
acccgccttg atgggtacga ttcggagcgt ggtgtaaaaa tcgttgccat cgtggatttt 360
gtttga 366

<210> 112
<211> 789
<212> DNA
<213> A.fumigatus

<400> 112
agacatttcc gagacggaaa ctacttctac cagatctcga gtgaataccg ggtcgccaga 60
cctgaatctc gggggagctg gtttcctcag aaaaagccgg acaaacaagt accttccaca 120
ggagcgagtg agaacccaag agactcggcc gtgaatggtc attccaggtc tgagagcgtc 180
gagacacctg cgacccccatc caagtcaaag aacaaagcta caatcatgtt atccaagatg 240
atgaagtatg atgttgaccc tcgcaagcgg tcgaacagac ccgaagtcat cgatctccat 300
tacgacaggc tacataatcc ggacaactgc ttccacattg agctcagctg gatgaatacc 360
actccgaagc tgatcgaaga tgctgtgcta tcctgggctg caaccgccga gaagttggac 420
tcaagctcgg ccaggtggca aattgcgaaa gcttgtcgat cagcaagacg caacctttta 480
ggaagccata ttgaggctta ctcgcagttt caacttcttc gggccccggt cccacaagtt 540
tcaataccgg taccttttttg caactgggct tatcggaccg acattactac caacaagctc 600
tgcttgcgaa atttgatttt ggtctggact tccaagcaaa gatccgcgtt cccggccgat 660
gtggaagtgg cctactcctg gggcactgcg gactaccagt acccggagta cattcaccgg 720
tctggcagtt ttctggttca aatcaccgac caaggagact ctctggtttt tggccaaccg 780
aacttgtga 789

<210> 113
<211> 330
<212> DNA
<213> A.fumigatus

<400> 113
cctccccctta agcggctctg ccacttcgtg gtgaagactc agtttgatta ccttatcagg 60
ttagactgga ggtactccct agcttatctg ctttcgtctt tgtttctccg tctggatagc 120
ctctccctct ttgcgatgct gacttttctc cttctgctgt tctttttcc tgctgctctt 180
tgctctttct tcttcctctc ttcttttctt ctttttgtgt tgcctttcct ctcttgctct 240
cttttctttt gctcccttcc ttcctcccgc ggtttgtccg cttcccccct cctcgacttc 300
ctccgccttt gcctctccct tgctgattga 330

<210> 114
<211> 312
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (288),(299)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 114
tcgcctcctc gcccttcctt cttccgcgtc ggcgcgttcc tcgtctcccg ctttgatggc 60
gacctcgatt tctttgatgt tcgcttcctt tcttcgggct tctctttgga tcttgccggc 120
ttctccctcg ccgatctgtg ttgtctctcc ttcttcgccg ctgtcctctc cgtccccgat 180
gattttgtcg cttatgtcct cccggccgat cccggtcgga ttcttatctt gtatgtgacg 240
atggagcctt gcgggtatcg actgtcgggg attgtgccgt gtgtgctncg gatcttctnc 300
tctatggctt ga 312

<210> 115
<211> 498
<212> DNA
<213> A.fumigatus

<400> 115
gaatccgacc gggatcggcc gggaggacat aagcgacaaa atcatcgggg acggagagga 60
cagcggcgaa gaaggagaga caacacagat cggcgaggga gaagccggca agatccaaag 120
agaagcccga agaaaggaag cgaacatcaa agaaatcgag gtcgccatca aagcgggaga 180
cgaggaacgc gccgacgcgg aagaaggaag ggcgaggagg cgatcaatca gcaagggaga 240
ggcaaaggcg gaggaagtcg aggaggggg aagcggacaa accgcgggag gaaggaaggg 300
agcaaaagaa aagagagcaa gagaggaaag gcaacacaaa aagaagaaaa gaagagagga 360
agaagaaaga gcaaagagca gcaggaaaaa agaacagcag aaggagaaaa gtcagcatcg 420
caaagaggga gaggctatcc agacggagaa acaaagacga aagcagataa gctagggagt 480
acctccagtc taacctga 498

<210> 116
<211> 627
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (77),(88)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 116
gtaagaccaa cgtcaccggg ctcttttaca acctttaaaa acgttttgga tccccgcagc 60
ccatcaagcc atagagnaga agatccgnag cacacacggc acaatccccg acagtcgata 120
cccgcaaggc tccatcgtca catacaagat aagaatccga ccgggatcgg ccgggaggac 180
ataagcgaca aaatcatcgg ggacggagag gacagcggcg aagaaggaga gacaacacag 240
atcggcgagg gagaagccgg caagatccaa agagaagccc gaagaaagga agcgaacatc 300
aaagaaatcg aggtcgccat caaagcggga gacgaggaac gcgccgacgc ggaagaagga 360
agggcgagga ggcgatcaat cagcaaggga gaggcaaagg cggaggaagt cgaggagggg 420
ggaagcggac aaaccgcggg aggaaggaag ggagcaaaag aaaagagagc aagagaggaa 480
aggcaacaca aaaagaagaa aagaagagag gaagaagaaa gagcaaagag cagcaggaaa 540
aaagaacagc agaaggagaa aagtcagcat cgcaaagagg gagaggctat ccagacggag 600
aaacaaagac gaaagcagat aagctag 627

<210> 117
<211> 438
<212> DNA

<213> A.fumigatus

<400> 117
gcgacaaaat catcggggac ggagaggaca gcggcgaaga aggagagaca acacagatcg 60
gcgagggaga agccggcaag atccaaagag aagcccgaag aaaggaagcg aacatcaaag 120
aaatcgaggt cgccatcaaa gcgggagacg aggaacgcgc cgacgcggaa gaaggaaggg 180
cgaggaggcg atcaatcagc aagggagagg caaaggcgga ggaagtcgag gagggggaa 240
gcggacaaac cgcgggagga aggaagggag caaaagaaaa gagagcaaga gaggaaaggc 300
aacacaaaaa gaagaaaaga agagaggaag aagaaagagc aaagagcagc aggaaaaaag 360
aacagcagaa ggagaaaagt cagcatcgca aagagggaga ggctatccag acggagaaac 420
aaagacgaaa gcagataa 438

<210> 118
<211> 210
<212> DNA
<213> A.fumigatus

<400> 118
ggatgtttca tcacgcatta tcttaggtac ttactaatac cccttcacac cggtattatc 60
gacacgatga tgggcagatt gaagcaattc actcctgaat tgaccatata ccgatacaac 120
acctatattc tagtgggctg ccacggtgat gtacggagta cgtcatcctc agcggggcag 180
cgtttcgcat ccctacaccc cagttcctag 210

<210> 119
<211> 183
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (15),(18),(19),(27)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 119
cagacggcct tttgnagnnc ccgcggngat ggcagcgctc cttccagccc cgtggtgaag 60
actgcagacg atgctgcctc ctgtggagga gatggggatg gtgaacaagg acatgatggc 120
tttgtagtgg agagtgcttt attgatcttt gctggtatga gagcaaagga tttcacagca 180
tga 183

<210> 120
<211> 432
<212> DNA
<213> A.fumigatus

<400> 120
agacatggaa cggtacatga gtacaacatc accatcaagg tgtggaccga catcagccct 60
acgcccatgg caagcacata ctatggctat ggcggtttat ctgttgacct gcaagtccct 120
gggacattga tggtagcggc actgaattgc tggtggccag atgagctgat tttcacaagt 180
gtggattctg gagctacgtg gtcccccatc tgggcctgga acggatatcc taacttggac 240
tactactata gctatgatat atcaaatgcc ccttggctgc aggatgacac ctcaacaaat 300
cagttccccg ttcgtgtcgg gtggatggtc gaggctctcg caattgaccc gttcgactca 360
aaccactggt tgtacggcac tggcgcgacc atttatggtg gccatgacct cgagaaatgg 420
gacaccgtgc at 432

<210> 121
<211> 201

<212> DNA
<213> A.fumigatus

<400> 121
gtacaatact atctaagtct tactagatgc ttctgccact atattaataa gtatgcctat 60
attattaagc ctttacagga acacaagacg cacatgctta agggtagccc tctaaaagga 120
cctgagcgct gtatatttac tattagtaag gtaattaata ctcctactaa ttataagact 180
aaagcattct gtcagttata a 201

<210> 122
<211> 480
<212> DNA
<213> A.fumigatus

<400> 122
atcctcttaa taatatatcc accttattca actcattcgc tgcagctgct tgatgttggg 60
atctttagtc ctcttgccac tgcttatagc aagcaactgg aggagttttt gcacagatta 120
atgggcctaa gctatattac taaacaagac tttttccgcc tcttttggcc agcctgggag 180
caagcctcgt cattgagaaa tatccttttct tcatggaaaa ctgtcggtat atcgcctctg 240
gatcccgaga ttattctgca gcgattcact aagaagaagg actcaaggcc ctctactagt 300
gagtcttctc actcgatact acaagcggaa gattggagga agattgaaag gcttctaaac 360
cacatagtgg ctgatatata tgacaaaaac actaagaagt taagtttaat aatgcaccac 420
ctctctacag agaatattct tctaaaacta cattgccaag gccttgaatc agccctctag 480

<210> 123
<211> 222
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (204),(205),(206),(212),(221),(222)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 123
atacatctgc ccctagctca tgaattatta tcctcggatg acttccgaaa atacatcgtc 60
agcatccgaa atgcaagtta tgccattgca gttctagcga agatcagctc gattgaacaa 120
ggcacggtta cagcagggat gcgcttcgat atcgaggtag ggtcttcacc acggggctgg 180
aaggtcgacg agtgctcatt tggnnntcaa tncgggccct nn 222

<210> 124
<211> 576
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (38)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 124
gcgatacatt ctgaatttta tgactggagg gtatctanaa gaagagggct tcttctcttc 60
ctctttctct tcctcttcct cctcctcctc ttcttcttcc tcctcttctt cttcctcctc 120
ctcttcttcc tcctcctctt cttcctcctc ttcgcctgtc gttgcttctc ttccttcttc 180
ttctcttggc gcttcctcct tcttctcttc ctcttcggcc ttcttctccg ccgcgcgtcg 240
tttctcctcc tcgcgccgtc cctgttcctg ttttgctgcc ttctcctccc tcttcttccg 300

ctgcgtcttg tttttcgctc cctttggtgt cgtctccctt tcctcttctt tctggttcga 360
ctcgttctcg gcgcgtattt agcggagttt tcgtgttttt ctgcctcttc tcctcgttcc 420
ttcgcgcgtt ggcctcctcc ttctgctctt gctgcttttt ttcctggttg ttctttgatt 480
tcttgttgcc ggtcgtgcgg gttccgttct gcttcttcct gcgcttcttg gagatcacta 540
tggggatgga ttaaaagggg gattgctatt tgttag 576

<210> 125
<211> 456
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (6),(21),(30),(112)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 125
agttgnggcc gcttgctccg natggtgaan aggtatgcac gaattgtccc aagctacagg 60
actagatgga ataagcgata cattctgaat tttatgactg gagggtatct anaagaagag 120
ggcttcttct cttcctcttt ctcttcctct tcctcctcct cctcttcttc ttcctcctct 180
tcttcttcct cctcctcttc ttcctcctcc tcttcttcct cctcttcgcc tgtcgttgct 240
tctcttcctt cttcttctct tggcgcttcc tccttcttct cttcctcttc ggccttcttc 300
tccgccgcgc gtcgtttctc ctcctcgcgc cgtccctgtt cctgttttgc tgccttctcc 360
tccctcttct tccgctgcgt cttgtttttc gctccctttg gtgtcgtctc cctttcctct 420
tctttctggt tcgactcgtt ctcggcgcgt atttag 456

<210> 126
<211> 531
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (15)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 126
ctggagggta tctanaagaa gagggcttct tctcttcctc tttctcttcc tcttcctcct 60
cctcctcttc ttcttcctcc tcttcttctt cctcctcctc ttcttcctcc tcctcttctt 120
cctcctcttc gcctgtcgtt gcttctcttc cttcttcttc tcttggcgct tcctccttct 180
tctcttcctc ttcggccttc ttctccgccg cgcgtcgttt ctcctcctcg cgccgtccct 240
gttcctgttt tgctgccttc tcctccctct tcttccgctg cgtcttgttt ttcgctccct 300
ttggtgtcgt ctccctttcc tcttctttct ggttcgactc gttctcggcg cgtatttagc 360
ggagttttcg tgtttttctg cctcttctcc tcgttccttc gcgcgttggc ctcctccttc 420
tgctcttgct gctttttttc ctggttgttc tttgatttct tgttgccggt cgtgcgggtt 480
ccgttctgct tcttcctgcg cttcttggag atcactatgg ggatggatta a 531

<210> 127
<211> 555
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (535)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 127
caaatagcaa tccccctttt aatccatccc catagtgatc tccaagaagc gcaggaagaa 60
gcagaacgga acccgcacga ccggcaacaa gaaatcaaag aacaaccagg aaaaaaagca 120
gcaagagcag aaggaggagg ccaacgcgcg aaggaacgag gagaagaggc agaaaaacac 180
gaaaactccg ctaaatacgc gccgagaacg agtcgaacca gaaagaagag gaaagggaga 240
cgacaccaaa gggagcgaaa aacaagacgc agcggaagaa gagggaggag aaggcagcaa 300
aacaggaaca gggacggcgc gaggaggaga aacgacgcgc ggcggagaag aaggccgaag 360
aggaagagaa gaaggaggaa gcgccaagag aagaagaagg aagagaagca acgacaggcg 420
aagaggagga agaagaggag gaggaagaag aggaggagga agaagaagag gaggaagaag 480
aagaggagga ggaggaagag gaagagaaag aggaagagaa gaagccctct tcttntagat 540
accctccagt cataa 555

<210> 128
<211> 516
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (513)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 128
tccatcccca tagtgatctc caagaagcgc aggaagaagc agaacggaac ccgcacgacc 60
ggcaacaaga aatcaaagaa caaccaggaa aaaaagcagc aagagcagaa ggaggaggcc 120
aacgcgcgaa ggaacgagga gaagaggcag aaaaacacga aaactccgct aaatacgcgc 180
cgagaacgag tcgaaccaga aagaagagga aagggagacg acaccaaagg gagcgaaaaa 240
caagacgcag cggaagaaga gggaggagaa ggcagcaaaa caggaacagg gacggcgcga 300
ggaggagaaa cgacgcgcgg cggagaagaa ggccgaagag gaagagaaga aggaggaagc 360
gccaagagaa gaagaaggaa gagaagcaac gacaggcgaa gaggaggaag aagaggagga 420
ggaagaagag gaggaggaag aagaagagga ggaagaagaa gaggaggagg aggaagagga 480
agagaaagag gaagagaaga agccctcttc ttntag 516

<210> 129
<211> 360
<212> DNA
<213> A.fumigatus

<400> 129
tgcacgccct tcagccccgt ggtgaagacc cagattaact acgtcacttc taataatatg 60
aatgtgtcct tgaccgatga cgtgaccccc aaggtcgagg agattgatgg tgcggaggac 120
ttgcggagca tcaaaaccct cgaggcggag aacacgatcg ccagtgcgag caatcatccc 180
aatactacga caaccaccac ggccgctccc gccaacgtcc cacggaaacg tggtcgccca 240
cgcaaacatc cactgccagt acccgggagc cagatcaaga tcaccaaggg aagatctaag 300
acgggctgta ttacttgtcg acgacggaag aagaaatgcg acgagacaaa gccatcgtaa 360

<210> 130
<211> 309
<212> DNA
<213> A.fumigatus

<400> 130
ctactctttc tgtttattct cttcttttat ctacctcttt tcgtctcccc gttcatttc 60
tctcccctct ctctcccttc ccctcccccc cctcggcgag attgtcttcc accgcctggt 120
gaaaaccagt tccgttccct gaccggaacc aagcgaattg tgtcatttgg tggctgggca 180

ttttccacac aaccttccac tttcaacatc ttgaggacgg cggtaaccgc ggacaatcga 240
gcacagtttg ccagtaatgt tgcgcaggca tgtcttccct attgccgcgg ggtttcaggg 300
cacggctaa 309

<210> 131
<211> 381
<212> DNA
<213> A.fumigatus

<400> 131
tgttgcgcag gcatgtcttc cctattgccg cggggtttca gggcacggct aaccctgctg 60
cagtttgtgg tcaataacaa tctcgatggt gttgacttcg actgggaata tcccggcgca 120
ccggatatcc ctggaatccc agccggcagc ccggacgatg gaccaaacta tctggcattc 180
ctgcaagagc ttcggtccat tttgcccacc ggcaagacga tttctattgc tgcgccggca 240
tccttctggt acttgaaagc cttccccatc gccgagatca gtcaggtcgt ggactacatc 300
gtcttcatga catatgatct ccacgggcag tgggattata acaatgcctt ctccgagtcc 360
agtatacacc gcttactctg a 381

<210> 132
<211> 189
<212> DNA
<213> A.fumigatus

<400> 132
tgtggtggta ggggtaggtt tgggaatgtc atgctacaga tatgccttaa ggcaggtcta 60
aactattata atctggttga atatattatt aacttgggca gcacaggtat gatgaataat 120
atcttataca aaggcgcgag gggtcctgtc attcctaata ttattatatc tataagaaag 180
ggattataa 189

<210> 133
<211> 336
<212> DNA
<213> A.fumigatus

<400> 133
actttcaata gcaccgaagc tgcatctatg gtggaacata ttgagcttct acggcaagaa 60
cttcgcaggc tcttctgttt tcataatcat cgcgaacggt ggtccacata cgtttggcat 120
ctgctgtttc atccaagcta cgtcttccgt ctgaagactg gcgtgtctaa ttccgtcgac 180
aacaacctgt atcgactgag cgtcatggtt tcttcagaat tcgcggccaa gagctgtgac 240
agccagcaga acatttcgtc tgcatttttc gtctgcagct caacacaaat actcagaatc 300
cgtaagctta caacggcaag ccaggcctcc atttga 336

<210> 134
<211> 417
<212> DNA
<213> A.fumigatus

<400> 134
ttccagggga agttccaaga tatttatctt ccactccatg ttttctcaaa ttatagatat 60
ccgagaaagg ccaaagactt tgtgtcatta tgggaactga aatattcagc tgagttcagt 120
ctatatacca aattcttaga tgaaccaatc cgttgtttgg tggttgtact gatcgtattt 180
tgcgattacc aacactgcag aaatcttgtg cgattcggct atgatgagag agcgttctgg 240
cttttcccct ggagggcaga tatcatgttg cactctggta gcaagtatct gggtggtcac 300
agcgatatta tttatggtgt gctagcagtc cgaggcgagg aatggtacag acaactgtgg 360
aacggattca cttgggttcc attatcggtc aaatggaggc ctggcttgcc gttgtaa 417

<210> 135
<211> 798
<212> DNA
<213> A.fumigatus

<400> 135
ctaatggatt acctgcctat atcaagtcac aggtcgcacc ctgagtgggg tatatgcgaa 60
gaccccattg gtcgtaatga cccgcagaga ccatgccatt caggcgttgt tcggagggtc 120
gagtgcttga ggggtgaaat gaagatggat tttgagatct ttcctgcgtt caactatgca 180
agagaccgac acactggtca ttggattgct ccagagagct ccagtggtgc gctcaggaaa 240
tattcttttg agagtgagac gcaaaaactg gacttgacta tccattctgg tatcgacact 300
tcacttgagc cagctgatgc tatttctccg gtggatctaa atctccagga gaaggaagga 360
ccgaaagggc ctggactaca tgccagagtg agaatgatag aagggcaatc aatctcattt 420
gtgcttcaca acccggaaac aagtcttcct gaggagggcg ccttacaaca ctacctggac 480
agactggaaa aagagacgct ggacttctgg gttggctgga tcgcccattg tatgttccgc 540
ggtcactacc gagaacaggt tgagcgtagc ctgttggtgc tgaagctcct cacctacaaa 600
cctaccggag caatcgttgc agctcctacg ttctcccttc ccgagtacgt cgggggggtcc 660
cgcaactggg actatcggta ctcctggctt cgtgatgctg cctttgtcgt gtacgtgttc 720
ctcaagaacg gctatcccct ggaagccgaa gcatacacgt cttcactcac ggagctgcca 780
ggagccgcgc aagagtta 798

<210> 136
<211> 489
<212> DNA
<213> A.fumigatus

<400> 136
ctccagaaca tcgaattctc cggtggtacc tgctctggcg gccacggtct ctccattggc 60
tcggttggcg gtcgcgacga caacaccgtc aagaacgtca ccatcaccga ctccaccgtg 120
accgattcgg ccaacggcgt gcgtatcaag acggtctacg acgccaccgg ctctgttagc 180
caggtcacct actccaacat caagctgtca ggtatcacgg actatggtat cgtcatcgag 240
caggactacg agaacggcag cccgaccggt acccctacca ctggcgttcc gatcaccgac 300
ctgactatcg acggtgtgac tggtaccgtc gagtccgacg ccgtcgaggt gtacattctt 360
tgcggagacg gtagctgcag tgactggacc tgggagggcg tggatatcac tggcggggag 420
aagagctcca agtgcgagaa tgttccctca ggtggtcttc accgggggct gaaaagcgct 480
ccatgggaa 489

<210> 137
<211> 594
<212> DNA
<213> A.fumigatus

<400> 137
agaccattct tcacctatta tagtgaatat ttcttactta cctgttctgc ctgcctgact 60
gccattcacc cgactaaaat atctgaccac ctgaatgctg agcaccctgg aactcatgtg 120
acccagcagg ccctagattc tattagggtt gctgccctga ctactagtca taatcagatt 180
atgactgaac agcctattca cccgattcca accctggcta gccctaggga ggggtttcaa 240
tgcaaactgt gcaaactagt tcggcttggt caccgaacca tgcgcaatca tatccatgat 300
attcaccaga tcaatggata tggccctcag gatgctgaga tggcatcatg cctcatccag 360
gccctagaag ggactagcta tctctttagg gtaaaccctc cagccacgat gcctaatcag 420
gcatccacta gcacccgagc tagccgaaaa cgaactaggg aaccctccct gattggttca 480
acccctggac cttctatcca gcggtctagg gtccattcac cagatcagcc tgggacatca 540
accattcacc aatcatacct ggcctcgttc caggctcacc gccagaatct taag 594

<210> 138
<211> 270

<212> DNA
<213> A.fumigatus

<400> 138
gacgcttact ctgtctattt gctttgtcgc tggttggatc ttccagaagt tccaaccttc 60
cagtaccgtc gatgcaacct ccttatcgaa ctagtttaca ggatcgcaga cttccccgca 120
atgcagatac tttcccctca cggtttgagc tgtaagctaa ttcgcaagct cgagctctct 180
cttattaaag ccagcgagta ccctggtctt accatggtct ccatgagcta tactgcgtct 240
tcaccacggg gctggaagga tcagcggtag 270

<210> 139
<211> 231
<212> DNA
<213> A.fumigatus

<400> 139
gacctgttga ctgatcgaca ctaccattgg tggagacgct caaatcgcgc cataaccgat 60
gctcagcttg tggtcttgga ggtgcttcgt tcccatctag acctatcagc acctagaata 120
cgagacattg ccgataagac gcttactctg tctatttgct ttgtcgctgg ttggatcttc 180
cagaagttcc aaccttccag taccgtcgat gcaacctcct tatcgaacta g 231

<210> 140
<211> 588
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (282),(500),(574),(575),(577)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 140
gaagcgggcc attgtttcca gaaatccatc gagattgacc ccaggtgtgc catgtcatac 60
tggggcctcg cttacgccgt cggtccaaac tacaacaaac catgggaggt cttcgataag 120
caggagctcg aatcgacagt ccagcgcact cgcagggccg cagaagatgc caaagcaaat 180
gcaaaactag cgtcgccggt agaggccgct ctgatcgacg ccatgcagta tcggtatccg 240
caagaccggc cggcggggga ctgctcatca tggaaccagg gntacgccga cgccatggaa 300
gcggtgtata aacagcaccc ggatgatcta gacgtcgcgg tgctgtatgc agacgccttg 360
atgaacctta cgccgtgggc gctctgggac ataaagactg ggcaacccgc gccggacgcg 420
cgcacgttag acataaaagc agttctcgat cgtgcgcggc acagaaggga ggactctctc 480
atccgggtct gcgcatttgn tatccatttg aggagagtca gatccccgga tgcgcaggag 540
gccgccacca ctcctgggaa aggcccacaa gccnnanaca cttgggga 588

<210> 141
<211> 954
<212> DNA
<213> A.fumigatus

<400> 141
gggaatttct tttgcggggc gtatgaaggc ttaagttggg tttcaaagaa gggccagggt 60
ttggggtcca agtggcccag ggtattgtcg gcccggtcaa aggcgcaagc gcggcccgac 120
gggcgttggg ttggggtgcc gttcgcaaga aaccgaaaac aagctcgaaa ggaagagaac 180
cgacaaacag ctgcccgagg tgaagttgtc gaagacagtt cagatgaaga acggatgaga 240
agaaggaaaa agaaggaaga acgtcaacgg gagagcagga gtgggacggg gacacctgtc 300
tctcgagcga aacctcgttt cagagccgcc cgcgaaattg aggcggatat ggatggtctg 360
gaggtgccaa atgtgctaaa gtcgctgatt gacgccactg gcaaggaaca gcgagttctg 420

acctccacag ccggcctgat gactcctttg gagtttgtca atcaaggtga aggggaggcg 480
ttgaaaatcg cacgaagagc gcgtcacgac cttgaagcgt ttgcggatga atggaaagga 540
ttgacggaac gaaagaagtt tgctgagttg gaggaagctc agatcgtgga acaactggac 600
accaatcagc tcaagacgga tgaactcacg aatcttatca cggccattgg gcagctggag 660
attttcgaag aagacagtac gcttgcaagg tttgatgaat taaccagcaa gctcgagtcg 720
atagagatga agtaccgaag cgagatcgat gagtatcgac tatcagagac ggcggtcgct 780
gctattcacc cgctcttccg ccaagcgatg gaggattggg atcctcttca agagccgaca 840
ttccttgtat ccaatcttcg tcgtcttcag ccccttctga gcaggaagaa aaatgacgaa 900
gccgtgtcaa gacagtcttc accacggggc tggaaggagc cgtgccatga ccaa 954

<210> 142
<211> 183
<212> DNA
<213> A.fumigatus

<400> 142
tctaagacat ccttagattt ttctcatact attattcttt ctattcttcc tttataccta 60
gacaagccat ctattcccct ccatattcgt gaaatttcct ttgtcattca tatactattt 120
agtatatact atttattttc atttcacaat acgagaatct gccccacggg tggaaatccg 180
cgt 183

<210> 143
<211> 327
<212> DNA
<213> A.fumigatus

<400> 143
tgtcttgtct catctcctct ccgccagtcc acgtataaat tcctcctcct cctcatccct 60
caccatgact tcttcctttc aaaccatcaa gggatgctca ttgacggtga aaagtgggcc 120
tgtgaagctt gcgtccgcgg ccaccgtgtg acaacctgta aacacaatgg tacctattcc 180
tccattctct cactctcctt ctccaagttc agtcagactc atattgaatg ttacagatcg 240
accattgatc cgcatcgcca gaaagggtcg ccccttttcg acctgctctg tatgcaattg 300
caccccatgc caagctccag aggatca 327

<210> 144
<211> 267
<212> DNA
<213> A.fumigatus

<400> 144
tcaacatcgc gagtcatcag ggttaacaac acgaagtccg ctcacacacc ttcatatata 60
ggctccaacc agattgaagc tgctctgtgc ttctacaagg ctctcaaggt ctaccctcag 120
cccaaggacc tgatctcgat atatgacaag accgtcccta aggatgtgtt ggagatcttg 180
gccgaaatgg tcgccatgga cgccggtctc aaactgggat cttttactgg cgagggtggc 240
agtgctgaca atcacggcgt cgaataa 267

<210> 145
<211> 243
<212> DNA
<213> A.fumigatus

<400> 145
ttgatctgca atggcagcgg caccttccag ccccgtggtg aagacacctc tggcccaagg 60
caaatgctta cttgcccagg actagtaaga aaggcagcca ggccattgga ctttgtgcct 120
gtggtcttcc ctaaggccca gttatacctc ctgccttctc agcagcccac acaagccagc 180
agcgaaacac ttactgaccc aactggggct gccgcagaag ctaaccatag ccaccatcac 240

tga 243

<210> 146
<211> 261
<212> DNA
<213> A.fumigatus

<400> 146
gatgtgcttg tgagtataga atacaacagg attggccagg cgtggtggct cacgcctatg 60
atcccagcat tttgggaggc tgaggcgggt ggattacctg aggtcaggag tttgagacca 120
gcctggccaa catggcaaaa ccctgtcttt actaaaaata caaaaattag ccgggcatgg 180
tggtgtgcac ctgtgatccc agctactcgg gaggctgagg caggagaacc atttgaacct 240
gggaggcaga ggttgcagtg a 261

<210> 147
<211> 306
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (74),(76),(77),(79),(83)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 147
ttatctcaac atgtaatcaa taaagatgtt ttatgctgtc ttcaaagtcc gggtttttt 60
ttttttttt tttntnntnt gtntgagaca gagtctcact ctgttgccca ggctggagtg 120
caatggcatg atcttggctc actgcaacct ctgcctccca ggttcaaatg gttctcctgc 180
ctcagcctcc cgagtagctg ggatcacagg tgcacaccac catgcccggc taatttttgt 240
atttttagta aagacagggt tttgccatgt tggccaggct ggtctcaaac tcctgacctc 300
aggtaa 306

<210> 148
<211> 219
<212> DNA
<213> A.fumigatus

<400> 148
tccacccgcc tcagcctccc aaaatgctgg gatcataggc gtgagccacc acgcctggcc 60
aatcctgttg tattctatac tcacaagcac atctcaattt ggactcgcca cattttaag 120
tgctgtatag tcaaatgggg tgagtggcct gtgctgctcc agagatgtcc aacaagggca 180
gaccccaggt cctcaagaaa gtggaaattc tacctttga 219

<210> 149
<211> 420
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (58),(60),(61),(63),(67)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 149
tcaataaaga tgttttatgc tgtcttcaaa gtccgggttt ttttttttt ttttttntn 60
ntntgtntga gacagagtct cactctgttg cccaggctgg agtgcaatgg catgatcttg 120

gctcactgca acctctgcct cccaggttca aatggttctc ctgcctcagc ctcccgagta 180
gctgggatca caggtgcaca ccaccatgcc cggctaattt ttgtattttt agtaaagaca 240
gggttttgcc atgttggcca ggctggtctc aaactcctga cctcaggtaa tccacccgcc 300
tcagcctccc aaaatgctgg gatcataggc gtgagccacc acgcctggcc aatcctgttg 360
tattctatac tcacaagcac atctcaattt ggactcgcca cattttaag tgctgtatag 420

<210> 150
<211> 318
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (307)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 150
ttacagaatg ctggaccatt ccgcgtatta gaatgtgtta gaagactcgc ctactatatt 60
aaactaccct ctacatggaa gatctatctg gttttatctg tcgcctacct tgaacctgcg 120
ctggccaccc ctaatctatt ctactgtgag ttaccgaagc ctcctgcagt cattaatgct 180
gaggtctatc ctagtgagga tgatatatac aaagttaaat gcttactaaa caagcatacc 240
gttcaccgtg gacataaata tacccccttat atagaatacc ttgttgcatg gaaaggatac 300
cgactanaag atgactaa 318

<210> 151
<211> 246
<212> DNA
<213> A.fumigatus

<400> 151
aaaaaacttg ctgttattta taccttggaa ttcctatgca atcttaagca actggaacac 60
tatctaggtc ttactatatg cttccaccac tatgggagta agtatgccca catcattaag 120
cctttgcagg aatgtaagac gcgcatgctt aacagtagcc ctctaaaagg acctgagcgc 180
tgtgcattca ctactggcaa ggcaattaat gctcctactg attatgagac tgaatcattc 240
tgttag 246

<210> 152
<211> 534
<212> DNA
<213> A.fumigatus

<400> 152
tatacgcata gttcggatcc ttcggccgcc gtggtgaaga tcatcggcga cgatgaccaa 60
aaagttaggt cgggacgtca tcttcaagga caatcagact tggaagccgc gagctgtgaa 120
tataggcaca agttcgactt tttagaaaag tcattgtcga acgacgaagg aaacagtata 180
tatacacctc tattgtcgcc agatagttgg gtcgcgaagc ccgtcgggaa cacgccagcg 240
atatcctgga acatgtcaat gcgaaaatcc aatcggatcg aagaaactca accagtctca 300
tcccacaatc aagcccagcc attgcaccat cgtagattaa aatggctaat cgcaacccag 360
catgctatac cttgcttcca tgctgtaccg gctgtgttat ggggaagtct ggaagactgc 420
cacaggagtc agcaggagtc agcaaattgc cattttgcaa gtcaccttgt ccatgtcact 480
cagtgcgaat cgcctcgatt gcatgttaga cgctggaaac aagcaatcaa atga 534

<210> 153
<211> 237
<212> DNA
<213> A.fumigatus

<400> 153
cgcgggtcct tcgccccccg tggtgaagac atgcttggct acaccctctg gaacttctgc 60
gaactggtct tcgtctattt cttctacgtc gagaccaagg gcaacaccct tgaggaggtg 120
gcgcgcatct tcgacggcga cgacgccatt gcgcatattg acctgcagca cgtcgagaaa 180
gagatcgagg ccgaggcgac gtaccacgag actgttccta acaagtcggc tgcttga 237

<210> 154
<211> 873
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (59)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 154
ctttggtcgg cgcgcctttt cttcaagatt cgacccaatg aaggacctga atgtttgcng 60
aaagttggaa tccgttccgc aatcgaaagt gtacagaact cggaaaagaa aaagtacggt 120
cgctcatacc agggtgatcg cttgtttcgc ctcgaacgca tctatatccg ctacctgagc 180
gaaagcggca gttgggacag tgcacgcgaa accttcaagg ggctggtcgg tcgccgtggc 240
aatagttacg aattctggct cacctactat cactgggagc tgatctcatg gagcaaattt 300
gtacagggag aagggacggc agatgcggct cggcggactc ccaaccccag ctttgcaact 360
gccgtgttga aacaggccat caagcggaca gacctagatt ggccggagaa gatcatgcag 420
gtctacatcg cgcactgtga agactacgag gactcggatg aactccaaca ggctatactg 480
gagacccgga aagccatgaa ggccatcacc gcacggcgag aaaaggaagc tgcggccgcg 540
ttgcagcaac agcagcaggc ggcggccaat tatgcatctc aagccgagaa gcgtaagcgc 600
caggatgaca ctggagtaaa cggctatccc agcagtaaaa aggcccgtgc cgaggagcca 660
acgccagcgc cagcaccggc tgcgccgcaa cccgagcctg tggcactccg gcgcgaccgc 720
gaaaatgcca cagtagttgt caagaatttg cctcaccata ttacggaaca ccgtgtccga 780
cagttcttcc gtcatgtaag ttttctcccc tggtttcctg ttgtcttcac tacctcatct 840
aacttggaca gtgcgggaca atcaaaggct tga 873

<210> 155
<211> 552
<212> DNA
<213> A.fumigatus

<400> 155
acctgtggtc cttctcgggt ggcggggtat gtagaccctg cctccaccca gcagggctcc 60
ctggcctggg ctgagatgct gttctctgac acctgcataa ttctctctcc agacaaggaa 120
gtcctggcga gcctggagca gaagctgaag gaaattgacg aggagtgccg gggcgaggag 180
agcaggcgcg tggacctgga gctcagcatc atggaggtga aggacaacct gaagaaggct 240
gaggcagggc ctgtgacgtt aggcaccacc gtggacacca cccacctgga gaatgtgagc 300
ccccgcgtga gtgctggaac tgcggcctct gggctgcttg cagggctccc tggacatggg 360
ttggggtggg tgggtcacat ctccctcccc ttgactcagc ccttgctctc ctcctataac 420
cacagcccaa agctgtcaca cctgcctctg ccccagactg taccccagtc aactctgcaa 480
ccacactcaa gaacaggcct ctctcggtcg tggtcacagg caaaggcact gtactccaga 540
aagccaaggt aa 552

<210> 156
<211> 273
<212> DNA
<213> A.fumigatus

<400> 156
ctggtgaggg aaggtcttga gggtgcaaag tcacccactg gctttctttt tttgagacag 60
tcttgctctg ttgcccaggc tggagtgcag tggcgtgatc ttgggtcact gcaacctctg 120
cctcctgggt tcaagcgatt ctcctgtctc agcctcctga gtagctggga ttacaggcat 180
ccgccaccat gtccagctaa tttttgtatt tttagtagag atgggatttc accatgttgg 240
ccaggatggt ctcgaactcc tggccttaag tga 273

<210> 157
<211> 216
<212> DNA
<213> A.fumigatus

<400> 157
gtagctggga ttacaggcat ccgccaccat gtccagctaa tttttgtatt tttagtagag 60
atgggatttc accatgttgg ccaggatggt ctcgaactcc tggccttaag tgatctgcct 120
gcctcagcct cccaaagtac tgggattaca ggcgtgaacc accgcaccca gcttgaactg 180
tatttttta aactccaatc ttcaaaacat tattag 216

<210> 158
<211> 258
<212> DNA
<213> A.fumigatus

<400> 158
tcccagctac tcaggaggct gagacaggag aatcgcttga acccaggagg cagaggttgc 60
agtgacccaa gatcacgcca ctgcactcca gcctgggcaa cagagcaaga ctgtctcaaa 120
aaaagaaagc cagtgggtga ctttgcaccc tcaagacctt ccctcaccag tcagctgagt 180
ttgtcctcaa acctgcaccg ctgctcttgc ttattcatac acctctacaa tttaaataag 240
cacaaagtta ctccatga 258

<210> 159
<211> 516
<212> DNA
<213> A.fumigatus

<400> 159
acggaaattc caggagacac aaacagcccc atccgtccta cacaatgccc cacgacaaaa 60
aggaactaca cagtgcagga tccctgtacc aactgccatt atctcccagc cacagcaacc 120
ctcttctact ggccagtgag cactaccggc ggtgatctct gtcaccagaa cggaaccacc 180
gtacctgcca ccgctactgg aaatggcccc aacactgcag ttgtgaatgg ccatacattc 240
atatccccca gtatatatgt atccttcacc agtatctacg cgcgtagcaa ccagcgcgcg 300
cacccaggtg gctcctgtgg cggcgagtac gaagatgtga ttatctccgt caacccagaa 360
gccgtaacat cctaccgtaa ccacctcaat gcgaagtatc cacgaatcgg cacagcctac 420
ccgttcaact ttgccgagtt ccaaccgcat gtcgttggga actattccgt gccgctgatc 480
ccgtgtttta aacgacgcga ctggaaggta gtcgtc 516

<210> 160
<211> 183
<212> DNA
<213> A.fumigatus

<400> 160
agactaacca ggtatcctag tgactctgac catcccacaa ttacaacatt gtttaaccat 60
attcacttct gggaagatat cacaatcctc ttccacttta caattcccac tttccctaga 120
cttcatctgt atatcacctc accatcttca tactctgaac aatcaacatc agagccacaa 180
tga 183

<210> 161
<211> 321
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (130),(228),(229)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 161
acaatcaaca tcagagccac aatgaagttc tctcctgctt acctgcttgc gttcgcgcca 60
attgtcgccg cccactttag actccaatat cccacgagtc gtggcttcaa tgcggacaca 120
atggctaatn ttccctgcgg ggaattggcc caatcctcca acaggactca ggtctctctt 180
tcgtcgggct ccttccctgt cgccttaagg atgggccacg atgaaacnng ctgtgaagtc 240
ctcttggctc ttggaaacga atccggcagc aatttcaaaa tcactctcca tcccactttc 300
cgtattgagg gattgggcga a 321

<210> 162
<211> 189
<212> DNA
<213> A.fumigatus

<400> 162
aagaacaaat ttttcgggga tactgttcac tacgtcagcg tgcaaaccgc ccagataggc 60
aaagatgtcc ccctacctat gtgctcggct acagcgcaga agaatgccga gttgaatatc 120
aataaggcaa tctttgcatg cttgcatctc acaagaatcg agagatacaa taaatacgaa 180
cactattga 189

<210> 163
<211> 192
<212> DNA
<213> A.fumigatus

<400> 163
cctcttaatg ttagctgttt tgtagttcta aagtatatat atagttacct tataaaaagt 60
aatatgcagc ttggaattaa ttatattaat aagctagatt tccttaaagc atacctaaaa 120
gcttatatag aagcctttaa attagagaat attaaaaata gctttacagt aactagatta 180
gtgctatttt aa 192

<210> 164
<211> 699
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (602)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 164
ggcggccact ctctttccct ggcggaattg gggtcattat tctcgcggga gtttggtttc 60
cgcgttccca tcgcgcgtct ggccaagaac tcgaccctga ccggtcacct acagaccgtg 120
cgtgccatcc gagacggcca caccgctgcg gtgcaggctg atctgccggc cgtgctacgc 180
gcagacgcaa cgttggatga ggacatccga ccttctggtg atgtgaagat ccgatccgtg 240

acggatgcgc aaacggtgct gttgaccggc gtgactggat tcctgggcgc tttcctcctt 300
cacgacctgc tggaaaccac atctgcgcac atcatctgct tggtgcgttt caacgaaccc 360
gccgacgatg atcagccggg cggtgtggcc cgtatccgcc gtaatctgct ggatttgggt 420
ctttggcgcg actccatcat ggaacgcgtg gaaatccttc ctggtaacct gtcccgctcg 480
cgctttggtc tgtctcccga ggcctttgac gagctggccg ctcgggtgga tgtcatcgtc 540
catgccgctg ctaccgtctt caccacgggg ctggaagagg gcgtgcaaca caaatcaaac 600
cntccccgcc atgagtccgc ccaactaata tataccagcc acatcccaca ccaatttatc 660
ctacacaaac ctatagacaa caacactacc aaactttag 699

<210> 165
<211> 267
<212> DNA
<213> A.fumigatus

<400> 165
atttgtacct gcttcactgg catattaacc tctcttctat tgacgctctt tcctttcact 60
cctacctacc tcctcatact ctgtagttct tacactactc ttcacactac cactccgtta 120
ctccactcta tccatatacg tatctttctc tcctctatta cttaccggta cgtgtacaca 180
ctacccgtta tgtatattga ctcgtctcct cctccgttca cgtactatac ctctccctct 240
gtcgtacgaa tgtctactcg tgtgtag 267

<210> 166
<211> 201
<212> DNA
<213> A.fumigatus

<400> 166
aatatgatga gtcatatgcc atctgctaca tccctttcgc ttgatgccac gtctctccca 60
tcctacacta cttctcgcta cactctcgct ctgctcctgt ttgtcacacg tcgtcttatc 120
cctccctatc atcactcttt accttctgct gcctctacgc catgtttcta tctccttctc 180
gttatcttca tccctctatg a 201

<210> 167
<211> 480
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 167
nggacgcggt atctactagc cccgtggggc agatccttct ggatcctggg gagctccatc 60
cgatcaggga ctgggtggcc tcagtgcgga gagcttgata tccttgagaa tatcaatggc 120
aatctagtag gctacggcac tgcccactgt gatgttaatc caggcggcat ctgcaatgag 180
ccaaacggcc tgggaggaag cattaccatt ccagatcagt catggcacac atggcgtgtg 240
acttgggacc ggacgccatc taactggcaa tccgagaaaa tcacctggta tatggatggc 300
cagcagttcc accagatcac cgggtcccag atcggcaact cgggtgtgtg ggccacgctg 360
tgtcacgacc cgctgttctt tatcctcaac gttgctgtcg gcggctattg ggtaagtcca 420
gtgaaccttt ttcttttgat ttccccccct tccgaacatt tccatcccaa atattcatag 480

<210> 168
<211> 645
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (509)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 168
ttgacccata gagcgcccct tcagcccccg gtgaagactt tcctcattcc ctcatcgaag 60
ctcgcgtttc acgacccgtc gaccaataca tacagaagtg acaaatcgac atccgcaatg 120
ggtcggataa gctatcccgc gggtttggat agcccgtcga ggcagcttct gcaggatctc 180
accagagacc ttgaacaatt acaaatccac agtaccgagt tgaaacaggt caaggcgtgg 240
gaacgaaaat cgttttacga acgactcgat cgcattgata gcgaacgtga ggccatacac 300
tatacagcac tcgacaaagt tgctgcccgt catgatcagg tgcgggaaga agcgcaggag 360
atgctcagag ctcaccagcg cgccgttgag gaagaaaggc gtcggaaaga ggaagaggct 420
cgtcgagaag ctgagcgtct agaacgggaa cgagcagaga aattacgccg tgagcaagag 480
gaggctgcgc gacgagatgc agagcgcana gcggccgagg aggcaaagag gaaagctgaa 540
gaggaggccg agaagaagcg caaagccgag caagaagaga aagaacgcaa ggaaaaggaa 600
cgattggagg aggaaaatag acagcgacaa gcagaggcgc aaaag 645

<210> 169
<211> 504
<212> DNA
<213> A.fumigatus

<400> 169
cacctatgtc ttgccagccg gcggcgtcgt aatcacaaga aacagggacg gcgggacctg 60
agtgcagaat tgcataagcg gggcatgttc ctcatggtgg acacggtcat caacaacatg 120
gcgtacatca ccaacggcag cgatccggct acgcatatca aatactcgac gctcacaccg 180
ttcgacagtt ccagctacta ccacccctac tgtaagatcg aagactggaa caatttcacc 240
caggcgcaat ggtgtcaaac tggtgataac gtggtggcac tgcccgatct ttacaccgaa 300
catcccgacg tccaaagcat tctagagaaa tgggcgcaag acatgatctc aacctactcg 360
attgacgggc tgcggattga tgcggccaaa cacgtcaaca cgggcttcct ggccaatttc 420
ggcaaggcgc tcagcgacac cttcatgacc ggggaggtgt atcagcaaga agtagacatc 480
atctgcgact acaagaacaa ctac 504

<210> 170
<211> 492
<212> DNA
<213> A.fumigatus

<400> 170
actcttactt ccacgccgcg tgaagactac tgctcgccga agtgtgtatc ttcctcgcgg 60
gtattctatc tctcctcgaa tctcatcgca aagcactatg agccttcaga cgtcgaaggt 120
gcgttgaagg ctactgaagt cgccagccag cgtgggatcc gctgtccctc cgtacgaaag 180
atcagcaaga accacgagaa tgtttatgtg ggtatgaacc gggtggaggg caccacatta 240
gacgttatct ggaaggaact gggctggttc atgacagtca agcttggtct gcagcttcgc 300
cgctgtgtga agattgacag aagtattacc tcaccgactg ccggatcgct cgtgacaggc 360
gaatgcaggt ctttctggcg agacgatcgc tacggtcttc ctgcgaattc gggtcccgcg 420
gagattgccc acttctgtca agttctgggc gagctttacc tccatgcgtc gagcaatgca 480
tatctagcgt ga 492

<210> 171
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (141),(156)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 171
cctctgtcca tctcatttcc tctccattct ccctgcacct gtcaccaatg tttcggacgt 60
ctcaacactg agtctgagcc tcggtacgac tggcattgtt ctttgtccat cggagatgga 120
gagtctaagc ccagccacac ncaggacacg tggatnttcg cttatttgcc aggatttgtc 180
agtctgaatt tcttcgtcta cactttgcca aacgacagtt tgtga 225

<210> 172
<211> 717
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 172
anactgattg ggctgggtcg accaggctca gggtgcagca ctttcctcaa gactctcagt 60
ggggaactac atggcttgaa cgttgacgag aagaccgtcc ttcactacag cggaattccg 120
caatctacga tgatcaaaga gttcaaaggc gaagtcgtct acaaccagga agtcgacaag 180
catttccctc acttaactgt tggccagact ctggaattcg cggcggcggt gcgcaccccg 240
tccaagagac tgggcggtat gtccaggaat gagtacgctc agatgatgac caaagtcgtc 300
atggctgtct tcggccttag ccacacctac aacaccaagg tcggaaacga cacggttcga 360
ggagtgtcgg gtggtgagcg aaagcgagtg agtattgcgg aaatggctct ggcaggcgct 420
ccgttggcag cctgggataa ttccactcga ggcttggatt cggcaaccgc gttgaagttc 480
gtcgaatcct tgcgattagc cgcagacttg aactcatctg cacacgctgt agcaatatac 540
caagccagcc aggccattta tgatctattt gacaaagctg tggtgttgta cgagggacgc 600
cagatttatt tcggccccgc cagcaatgcc aaggctttct tcgagcggca aggatggttc 660
tgtccccccc gttcgacgac cggagatttc ctcacatcgg tggaccaccc catttga 717

<210> 173
<211> 255
<212> DNA
<213> A.fumigatus

<400> 173
caaccacagg tgaaagaaaa gctcaagaaa ttccaaaact tggacccctc caacgccgac 60
ttcatcccca ccatcaaatc cctgatggct gatctggcag agcacatcaa ggaagaagaa 120
acaaacgacc tggtcaagct ggaccaggcg ctgtcccacg acgacagcgt cagtctctcc 180
aagagcttcg accggaccaa gattgtgcgc cgacgcgctc cctattacac cgcccggcag 240
gaaggaaacc ggggt 255

<210> 174
<211> 333
<212> DNA
<213> A.fumigatus

<400> 174
caattctccc ccatcgcagc aagaagcgtt tctacctctc ccatccaaat gatcggacga 60
atcaccgaca cggtcaagca ggatcaccgc gagatcgaag cctgctacca gaggatcatc 120
aacgcaaagg accgtgatga gcagactcgg tatcagaatc tgtttacctg ggagctagcc 180

cggcactcca tcggcgagga actagtcgtc tatcctgcgt ttgagaaaca tctcccagat 240
ggaatttcca tagcagagaa ggacaggagg gagcaccaaa ctgtattctg tcgcctggaa 300
ccaccagtga tcgaaactga caaccacagg tga 333

<210> 175
<211> 207
<212> DNA
<213> A.fumigatus

<400> 175
aaaattttcc gggccttgat cccttccagt tttaggtccc tcttttccct caagggaccg 60
gttcaaaagt ctcttgtgaa gccgaaccaa ggctttgggc aaatcatccc ctttacgccc 120
acggctgttg gtaagctttc tcaaagattt tctgggttgt cgggggtcga aaaacctcct 180
gttccctttg aaggaaggac ctattga 207

<210> 176
<211> 216
<212> DNA
<213> A.fumigatus

<400> 176
tccaccttat gtacgcctgg tgagcaaacc actcatgcag ccatgccaaa gttcctaacc 60
tctcagttga ccttcctgat tgcgtctagc atcttctcct atgcaggcct tcgctatggc 120
gaaaaaatcg aggccaactg gagccacaaa attttcgcca ataggagact tcccgctaat 180
gagcgactct tcggaaacct ccacttgacc atttag 216

<210> 177
<211> 240
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (127)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 177
cgatatacga tgcatatgca gcccagatgg gcgatctgca ttcttaacat gtcataccct 60
catttaacgg ttaattctca attcaattcc cctttcaaca tgtttgataa aggttgtctg 120
tatgtanggc aacggtggcg tttggttctg acgagaatcg aagctgcctt tcgcatcatt 180
gaatggctag gcaaaaaata cccgtatgca aacactggca acattctgtc tgaaacctga 240

<210> 178
<211> 642
<212> DNA
<213> A.fumigatus

<400> 178
gtacaccatg ctcctgttca tctggatgct tgttgtctga ttatgatctg gagtttttc 60
cacaatatgg cgcctttgtc gcctatcctg acagacttct tcgcctctca tcgtacacat 120
tattggctca tcacgcaaga accagtcctg tgctgcacaa tcctgatgat ctcctcgagg 180
taccataccc taccagggcc gtccggtgcc acgcgcggat tctttatcca caacaggtta 240
tggcagcact gccagcacct cattctacgg atcatgcttg gacaggagaa gttttccaaa 300
gcaaagacaa ggcatttggg aacggtcgag gctcttctac ttctatcaga gtggtacccg 360
cgggcgttgc attttccacc cgagaatgac ggatgggatt cagatttgat gttgacggca 420
cccagcgaga gagacccgcc ccccgtgaca gaagagagcc ccatgcaaga cccgtggaga 480

gaagacgttg tcgagccgac gagacgatcg gatcgcatgg gctggatgtt ggtaagctct 540
tgcttggctc ttgcacatga gccttgtgtg ttttctacca gcaatcgatc ggatttggga 600
gaccatcgaa ttgtaaagcc ggatgttaaa gcgtatgtct aa 642

<210> 179
<211> 561
<212> DNA
<213> A.fumigatus

<400> 179
gcggctccgt tgccggatgt gattgtcatg cagggagaga tccccgttga cacggtggtg 60
ggcattctgc gggatattag ggtgtggaag gcgaataatc gagcgcaggg gaagaaggga 120
atcgaggctg gtccggatgt catatataac cctgcgccgg cgccgccggg tggtttgcct 180
gaggatgtgt acactgccgt tgaccatatc attatgaacg agacggaggc ggagctaatg 240
agcccgtctg aggagcactt gctccaggtt gttcccggtg tggagaagga gagcagaaac 300
gagaaggttg cgcggtattt ccaccagctg ggcgtgacgt atgtgctcat cacgctgggg 360
tccaagggtg tttggtatag tgcgacggac gcggggacgt ctggtcctgc ggatggagtc 420
aatcggttta cgaagcagat tccggccgcg aaagtcagca aggtgctgga taccacggcg 480
gccggggata cttttgttgg tgcatatgcc gtggaagtgg cacgctgtct tcaccacggg 540
gctggcagga tccgcgctta g 561

<210> 180
<211> 342
<212> DNA
<213> A.fumigatus

<400> 180
atttgcactt cactccttat ctacttggca ctagttatta ccatgcgcaa aacattttct 60
ctgtttaaga agcaaagacg gatgccgtct tatacttcta ataaaccaac agtcgagccc 120
aactggacat tccagatggc tctcaatgca aacgaagagt ggtttcgcta tacaagaagc 180
cggtttctat ccaaccaaac tcacgagatg gcgatccgtt atgtcaaatt caatatggac 240
gaattggtaa aacatgctgc tgaatctgtc ggcctttctt ctgcgcaatg cgtgccggtt 300
gagaaaattc ccgaagggaa tttcaacaaa aacctccctc tt 342

<210> 181
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (159),(160),(171),(172),(188)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 181
gacattatac cgctgatgtc ctttagaaac cgcggccgct ggcagtttat cgtcttccat 60
agaagccata ttttcttcga tttacggtac tacagccaca ccctcaacct cgagcactcc 120
cagttcctct ccaacatccg actgttgggg gcgagacgnn ctctgcagta nnccaccaac 180
cgtcccantt ttgggggggg gggaagaggg gtttttccaa atataaaaac cggcggcggg 240
aaataa 246

<210> 182
<211> 213
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (99),(185)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 182
atattactat cttctgtaca cttcctgtgt attaggcctt acttaaatcc ctgggactcc 60
ctgctcacca acgcactctt agacagggaa gctactatna aggatatagc tatgaataat 120
tctgatatct actttaacta tgctctaaac atggtacatt ggctgcacac caacaggtta 180
ctaanggaaa acaattgtgt aaaacacagg gca 213

<210> 183
<211> 618
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 183
ngcgccttcc aggagatgga tgccatctct ttcctcacgc cacacaccaa gttcgcagtg 60
cgaccgccgt ctctcgcgtt cgtcgccggc gccgtcaaaa acgcataccg gacatgctgg 120
tacggacgtc ctggtccgac cttcgtcgac ctccctgccg atctaatcca gggcaaatca 180
gcacctggct tccacttacc gcagccagag gaaatcctcg tcccgtcgcc tcccaaggca 240
agcggggacc ccgcaatgat tttgaaggcg gcgcaattgc tcaaggcagc tcgtgcgccg 300
ttactgatta tcggcaaggg ggccgcgtat gcaagggccg agggcgggat ccgcaagcta 360
gtcgagcaga ctcagattcc gttcctcccg accccgatgg ggaaaggggt agtacccgac 420
tcacatcctc tcaatgtgtc gagcgcgcgg agcgcggcgt tgaagcacgc ggacgtggtg 480
ctggtgcttg gggcgcggct gaactggatc ctgcattttg gcgagccgcc caagtggtct 540
tcccgggcga agatcatcca ggttgatatc tgcgccgagg gtcttcacca cggggctgga 600
aggatccgcg gtggcgct 618

<210> 184
<211> 222
<212> DNA
<213> A.fumigatus

<400> 184
gtctataact tccttctatt tattagtttt aaatatatac atactaatta ttctgtcttt 60
attaaatata gtattattat actactctat atagataata tccttatact tttaaattct 120
aataatctta ttaacaactt ccttaagcag ctaggaaaat tatttaaata tactaataat 180
agcaaggttt ctgtctacct agggattaat atactatatt aa 222

<210> 185
<211> 273
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (212)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 185

agtaaacacc tcttcggagt ctttacgcag gccaagaatg cgtatcgtga acgcaaggct 60
cagattcaat cggagcgcaa cgccaagatt gccgaaaggg aagctctgag ggctttgcaa 120
aactatcaca tcgatgatgc accgccatca gtcgctccct ctcgcagaag caggagcaca 180
cattcgcgac accatcgaca ccggcgcgcc cnctcgcact atgaacagga cctgcacttg 240
gtggcctcgc agacggagtc ctactacgcc agt 273

<210> 186
<211> 315
<212> DNA
<213> A.fumigatus

<400> 186
actactatcg ctgtggtgaa agattatcct cgtccacttg ttctccgacg tttggctggt 60
tccaagcaac ccaacatccg acctccacac tccgaggcag ttgacaacgc tatcggtgct 120
gtttctatgg ggccacgctg tgcctcagga gaccctacat atttgtccgc gctttcaggc 180
accgcttcat acgctagttg tcggtcgaaa attaacaact caacgccgta caggacgact 240
ctgtcgcctg gcgacccccc tgcccccttct cgtctgtacc tcgttggtgg atccctgcat 300
gtgtttttcc tttag 315

<210> 187
<211> 267
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (92)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 187
gcctacaccc acttcaatgc ctacatcagc ggcgtgcctt tgaataatgc cctcctccac 60
cttacctctg cccctgcccc tgcccatggc cntgcttcct tccccctctt atctcctcct 120
tcttgtcccc cctctggtct tgcccagtct atatacacaa ctattactag aagtccccca 180
gctaggaata atgctgctac aaagaaaata tatagtaata ctaagactaa taggttagct 240
acaaagctgt cacctcctga taactaa 267

<210> 188
<211> 183
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (183)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 188
ggagttgatg atcggccaga tgcaaggttt gttttaggct tctcgctggc tgttggccgc 60
gttctacagc tgacagtatg ttctgcaggg aaatatcaac tccaggtcct ccccgaagcg 120
ggccatttca ttcaagagga tatgccagcg aagacggccc agatcttggt ggacttctat 180
aan 183

<210> 189
<211> 285
<212> DNA
<213> A.fumigatus

<400> 189
aagctaacat atcgctgtag cacacgctcc cgaacaatcc gaaacagagc ctctgccaga 60
gtctccgtcc catccctcct atacaaagaa gaaacgccgt cagaccccgc aaaaccatgg 120
gtctggcgaa ccgacctctc cgccacgaag cccttctggg aagactggtt catcggcctc 180
agtcggaagt tcctggaggc gcgcggcggt aaactcctcc tgctggccgg cacagatcga 240
ctggataagg agttgatgat cggccagatg caaggtttgt tttag 285

<210> 190
<211> 873
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(56),(57),(58),(75),(246),(347),(864),(865),(866),(867),(868),(869),(870),(872)
,(873)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 190
agtgtttcca agggtgtacc catccatcaa ccatactgcc atgctgtttc ggcgcnnnga 60
tcgtctcttc ttccnttcaa gctggggttc gtactgtcta attttggaga aatcggtcag 120
aactcgcaaa tattgattga ttacttcgtc ggcaccggtg cccttccatg tcttccggat 180
gcgaatcctg ccgaatggat gctggatgtg atcggtgccg ctcccggatc acacaccagc 240
atccantggt tcgagacctg gcgtcgatcc cccgaatatg cacgagtcca agagcacctt 300
gctgaactga aacacgaacg tcgccaccaa acaaacctgt tccgcantac atccggccaa 360
aagcgcgaag acaaagacag ctaccgcgag ttcgctgctc ctttctgggc ccagctttac 420
caagtccaag tacgagtctt ccagcaaatc tggcggtcac ccacctacat caactccaag 480
accgctctct gcgtgttatc cgctctcttc gtcggcttct ccctttttcca tacacccaac 540
accatccaag gcctccagaa tcaaatgttc ggcatcttca tgctacttac cctgttcggc 600
cagcttatcc aacaaatcat gccgcatttc gtcgcccagc gcgcgctgta tgaagtccgc 660
gaccgacctg caaaaaccta ctcttggaaa gccttcctca tcgccaacat cgttgttgaa 720
ctcccctgga actcgctcat gtccgtcctt atgttcctgt gctggtacta cccgattggt 780
ctttaccgca atgccgaacc aactgatgcg gtgcacttgc gggtcttccc caaggggccg 840
aagatccgcg caagcgttaa aaannnnnnn tnn 873

<210> 191
<211> 570
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(37),(554),(555),(556),(557),(558),(559),(560),(562),(563),(565),(566),(569),(5
70)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 191
aacacgaacg tcgccaccaa acaaacctgt tccgcantac atccggccaa aagcgcgaag 60
acaaagacag ctaccgcgag ttcgctgctc ctttctgggc ccagctttac caagtccaag 120
tacgagtctt ccagcaaatc tggcggtcac ccacctacat caactccaag accgctctct 180
gcgtgttatc cgctctcttc gtcggcttct ccctttttcca tacacccaac accatccaag 240
gcctccagaa tcaaatgttc ggcatcttca tgctacttac cctgttcggc cagcttatcc 300
aacaaatcat gccgcatttc gtcgcccagc gcgcgctgta tgaagtccgc gaccgacctg 360

caaaaaccta ctcttggaaa gccttcctca tcgccaacat cgttgttgaa ctcccctgga 420
actcgctcat gtccgtcctt atgttcctgt gctggtacta cccgattggt ctttaccgca 480
atgccgaacc aactgatgcg gtgcacttgc gggtcttccc caaggggccg aagatccgcg 540
caagcgttaa aaannnnnnn tnntnnttnn 570

<210> 192
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (190)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 192
gctgacccac ttcaaaccat caggtccggc acatcggtcg aacacaacgt cctctacgag 60
taccagttcg tctcaaccca gaatgtgtac atgggccaga tccaaaacaga gaccgcgtgc 120
gtcttccacc acttcctcga acacaatgtc ttcaccacgg ggctggaagg atccgcgggg 180
cgtcaatccn cggtggtcaa t 201

<210> 193
<211> 225
<212> DNA
<213> A.fumigatus

<400> 193
aaccttgcgt cgccgtccga tccgtctgga atgtgggagg tgcatgcgcg cgttggaggg 60
ttcgcagggt cccagcagac gaccagggag tgcgccaaaa cacccgagac tgtaatcaca 120
gaggccgatg agaagtgcat tgtcgcttac atgcttatgc atgtcacccc gtctgcttca 180
aacctctacc tggagaacac ctggctctgg gtttcggatc agtaa 225

<210> 194
<211> 555
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (552)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 194
gccccgaagc cctgggatga cgaccagcgg ctcaaggcgg acgtggagct gcagcagtcg 60
ctgctcaaaa ccgatgcgaa cctacagcgc atgtttatgg aatcgctgca caccaaacca 120
gataccctgt ctgcctcgca gttcatgtcg cagttctggt cgacgcggct gcacctgctg 180
cgggcccacg cgatcgagcg gtcgcagacg cgcggctcgt acaatgtgct gtcctcgctg 240
aagccgcggg tcgaggacaa cgtgaccaag ctcaatatca gcaaggagca gatccagctc 300
attttcagcc agcatccgct tgtgaagagg gtatacgatg agaatgtgcc gaagctgagc 360
gagcagcagt tctggtcgcg attctttcag agtcggctgt tcaaaaaact gcgtggcgag 420
cgcatctccg agaacgatgc gacagatgcc attctcgaca aatatctgcg cgaggacgag 480
caggcgaatc tcgagcggga ggcgcctgct cggtcttaca ccgacggggc tcgaaggaca 540
cgcgctaaag gngaa 555

<210> 195
<211> 309

<212> DNA
<213> A.fumigatus

<400> 195
atcctatcaa gaaatagcac gagtggccaa gtggctaagg cgtcgcactt gtatctgccc 60
gcttgggtta agatcgctat gcgaagatcg ggggttcaat tcccctcttg tgcatttctt 120
ttttcaacta aagttcttat ttccaaggct gccttttcat caatctcaaa ttatttttgc 180
tacctcttgg acttttgtcg tttaagtctc gttgaggact ttctaaaata ttttattatt 240
ttctttctgt tctgtggtaa tgtgtatatt tgtgccggtc ttacctctta tatattgttg 300
aacttctga 309

<210> 196
<211> 228
<212> DNA
<213> A.fumigatus

<400> 196
tctattgtat ttgtgcaagc ggtagagtca ttcatacact tgccagatcc acccccttg 60
tcaaacaccg ccaccaccgc aaaatatttc ttctacctct ttaaccaagg ctcatctaag 120
tttcaacata agtacatcca gaatgaccag caagtattta tttatgtgac aagactgata 180
attaatgttg gtcttcacca cggggatgga aggatccgcg gtggcgta 228

<210> 197
<211> 189
<212> DNA
<213> A.fumigatus

<400> 197
aagggcgacg ttatcatgaa gtacactgcc gacgaggcca gaagtctcaa ggcctacggc 60
gagttgcccg agcacgccaa gatcaacgaa accgatacct atggccacga aggctttgag 120
gacaacgtcg agttcgacga ggaccgcgag tctgaagacg agaaggagat cgatgtcgac 180
gagctctaa 189

<210> 198
<211> 882
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (228)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 198
gtacggccat ggccgggatc taaaccattt gtgttttacc gtcgggcaaa aatgggggcc 60
ttttggttcc cgcttaaaag ggaggggttg gtccggattc ccacattgct ttttgggtcg 120
gaacccggcg gttggccctt tgcaaaaggg cttgaaaccg ggtctatttg gtcccttatt 180
ctcgatcccc cggggaggtt ctccgggacg gccgtcatcg tcgagttntg ggtgacggtc 240
accaatgcga tctggattac ggtgttcggg ttgctgatgc tgccgaccgc actgctgttt 300
gtacgcgtgt acggggagct cgagttcggg ttctcattga tcaagatcat gctcgtcatc 360
ggcatcaata tcatggcgct ggtgatcacc tgcggaggcg ggccggacgg gcagcgcatc 420
ggattcagat actggcggga tcccggcccg ttcgtgcagt acctggacgt cccgggctcg 480
tggggccagt tcctggggtt ctggacgacg ctcaataacg cgctgtatgc gtattcgggg 540
atggagaaca tcactgtcgc ggcggcggag acccggtatc cgcggcagtc gatccccaaa 600
gcggcgcgac ggatctttgc ccgtgtgttt ctgttttata tcctgtccat cttcatggtt 660
ggcatggtgg tcccctcgaa tgaccccacc ctgcttcggt ctaccggcaa tgcgtcgcag 720

tcgccttttg tcattgccgc gcggcgcgca ggcattcagg ccgtcccatc tattatcaac 780
gcggcggtgt tgacgtcggc ctggtccgcg gggaattcca acatgctggg aggctcacgc 840
attctcttcg ggctggccat gcacgtcttc acgcggggct aa 882

<210> 199
<211> 306
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (96),(185)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 199
tctccatgtg attcctttag ccctcagaaa ccatatctgt ttagggttga tgtccaatac 60
ctcggcgttt tgtccgaatg ttcctccttg gctaanaggg tgttttatga aaagaagtat 120
ataactctac ccatctattt gtctcttaga tacctgactc ttgtcaaatt ttcagaacaa 180
gctgntatag attgtccaaa gtacgcggag aacctaccct cctggtctag aaccccagtt 240
tcttgtagat actccccgaa aatgaatgcc aagactcatc tccgatcctc tgccttgaag 300
cgttaa 306

<210> 200
<211> 225
<212> DNA
<213> A.fumigatus

<400> 200
tccccagcag tgctgatcgt atggtgggca tggaccatgc tgaagtacgt tacttcacca 60
ggtatgagac taattattat ccctgatcag tatgatattt tgtgtctgac cttgttcaca 120
gttatgatca tcatggtaaa ttctacctgt tatccgcaaa acgttgaagg gtatgtgaag 180
ctaacacaaa cccgtgctaa ggcattcatg aggagatgct tgtaa 225

<210> 201
<211> 207
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(11),(12),(13),(14),(15),(16),(17),(18),(19),(20),(21),(22),(23),(24),(25),(26)
,(27),(28),(29),(30),(31),(32),(33),(34),(35),(36),(37)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 201
gagcctttga nnnnnnnnnn nnnnnnnnnn nnnnnnngaa gacagtatca gaagtattac 60
gtggatcgag tattagtcat ggacgatcat acaattaact atcatgaggc tgtgagctac 120
tccacttttc tagagacact attattatta tacataagca tgacgtcggt cagagctatg 180
ccacaatctc ccttgagacc acactaa 207

<210> 202
<211> 456
<212> DNA
<213> A.fumigatus

<400> 202
aaggaaaaca aaaggaaaat aaatggaaaa ataaatggaa aaataaatgg aaaaataaat 60
ggaaaaataa atggaaaaat aaatggaaaa ataaatggaa aaataactgg aaaaataaat 120
ggaaaaataa atggaaaaat aaatggaaaa ataaatggaa aaataaatgg aaaaataaat 180
ggaaaaataa atggaaaaat aaatggaaaa ataaatggaa aaataaatgg aaaaataaat 240
ggaaaaataa atggaaaaat aaatggaaaa ataaatggaa aaataaatgg aaaaataaat 300
ggaaaaacga aaacagggaa taaaggagag aaaccctacc aagccttcct gcgaacggaa 360
ccatctgtta tccgagttga atatgtaaat ctgaccgttc tctttcaacc gaaccatgag 420
cgagacatcc acattacact cctggcacaa ttcaaa 456

<210> 203
<211> 573
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (546),(551),(563),(572)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 203
tttgaattgt gccaggagtg taatgtggat gtctcgctca tggttcggtt gaaagagaac 60
ggtcagattt acatattcaa ctcggataac agatggttcc gttcgcagga aggcttggta 120
gggtttctct cctttattcc ctgttttcgt ttttccattt atttttccat ttatttttcc 180
atttattttt ccatttattt ttccatttat ttttccattt atttttccat ttatttttcc 240
atttattttt ccatttattt ttccatttat ttttccattt atttttccat ttatttttcc 300
atttattttt ccatttattt ttccatttat ttttccattt atttttccag ttatttttcc 360
atttattttt ccatttattt ttccatttat ttttccattt atttttccat ttatttttcc 420
atttattttt ccatttattt tccttttgtt ttccttttat tttcctttta ccccacaccc 480
cgtccttttt attctttcct tttccttttg ctcaatttcg gggctatact aatggccgca 540
agtatntgca ntatcctgta cgncgggcga tna 573

<210> 204
<211> 411
<212> DNA
<213> A.fumigatus

<400> 204
ggtttctctc ctttattccc tgttttcgtt tttccattta tttttccatt tatttttcca 60
tttatttttc catttatttt tccatttatt tttccattta tttttccatt tatttttcca 120
tttatttttc catttatttt tccatttatt tttccattta tttttccatt tatttttcca 180
tttatttttc catttatttt tccatttatt tttccattta tttttccagt tatttttcca 240
tttatttttc catttatttt tccatttatt tttccattta tttttccatt tatttttcca 300
tttatttttc catttatttt ccttttgttt tccttttatt ttcctttac cccacacccc 360
gtccttttta ttctttcctt ttccttttgc tcaatttcgg ggctatacta a 411

<210> 205
<211> 528
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (457),(462),(474),(483),(491),(492),(496),(506)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 205
cagatggttc cgttcgcagg aaggcttggt agggtttctc tcctttattc cctgttttcg 60
tttttccatt tatttttcca tttatttttc catttatttt tccatttatt tttccattta 120
tttttccatt tatttttcca tttatttttc catttatttt tccatttatt tttccattta 180
tttttccatt tatttttcca tttatttttc catttatttt tccatttatt tttccattta 240
tttttccatt tatttttcca gttatttttc catttatttt tccatttatt tttccattta 300
tttttccatt tatttttcca tttatttttc catttatttt tccatttatt ttccttttgt 360
tttcctttta ttttcctttt accccacacc ccgtcctttt tattctttcc ttttcctttt 420
gctcaatttc ggggctatac taatggccgc aagtatntgc antatcctgt acgncgggcg 480
atnatgtgtc nngtantagc cggccngagc aatatatacg gccgaaga 528

<210> 206
<211> 486
<212> DNA
<213> A.fumigatus

<400> 206
cacctcgtgt ttgatcagtt agctgatgag ttttcgtttc aggatctgtt taatcggatc 60
ggacctgtct caaatctatc tctcgtctat gaccgggctg gacgctccga aggcgttgcc 120
tatgttacct acaaccgtgc gaacgatgcg agaacggcga tagcagaatt cgatggcgca 180
aatgccaaag gacagcctat ccgtttgaca ctagtcgcct ctggccccgg aagacggggc 240
cgcaacccat ttgataatgt cgaacggccc aagggaagtc ttttcgatcg catcgagcgg 300
cctcgcgatg cccgaagctt aagccctgga agtgagaatg gtgatgtgga aggcggagca 360
cgtcgtcgcc ggggccgtcg ctctggagga ggcgcaggcc atcgccgtag cgatgtctcg 420
aaacctgccc ccgagcacat tgaccggtac gtgcctggac agcgatcacc agtcagacga 480
agcacc 486

<210> 207
<211> 462
<212> DNA
<213> A.fumigatus

<400> 207
gttcaactca agcggggatc cgtccagccc cgtggtgaag actgtttgtc tccagcgcat 60
gttccagcaa tattggcgaa gtccgtcgta catatactca aaggctgcaa cgagtatcat 120
tccggtgagt ggcattcctc cccgagacac gatggagtcg gcacgtctga ctatccagca 180
ccccagcctc tgttcattgg cttcacattt tggcgggagc cgaccagttt gcaaggcctg 240
cagaaccaaa tgttcgccat cttcatgctg ctggtcatct tccccaacct ggttcaacag 300
atgatgccgt actttgtaac tcagcgagcc ttgtatgaag tgcgcgaacg accatccaag 360
gcgtactcgt ggaaagcgtt tatgcttgcg agcatcctgg tcgaattgcc ctggaacatt 420
ctaatggccg tgccagcata tttctgctgg tattacccaa tc 462

<210> 208
<211> 303
<212> DNA
<213> A.fumigatus

<400> 208
cttcgatcac atcactgtct cagaccccca caagattgcg ggaagttcga gaaccaagtc 60
attgaagctc ataatgtcgc tattcacatt gcaaacatca agcaactgca ttggcgctta 120
acctgcgata ctccgtactt atcgttgcta tttcgggtta ccgatacagt gttttctgat 180
ctgttctccg cgactacgac ctatatttat ggcatcgagt acggaatgcg cctctacctg 240
catcagatag cgagcgtctt caccacgggg gtcgaaggct ccgcgctaag cgttatggcc 300
atc 303

<210> 209

<211> 450
<212> DNA
<213> A.fumigatus

<400> 209
agacttgcgt ctcccttcct tcaagggttc gactccttcc gctcatggcg cagagatgtt 60
caccggcgat tgatggagtg gcaggaaagc gcgcccactc gtagagaaac aggcgtgcag 120
ttttcggtgg aatttcttga acttaattac tggcaggccg tcatcatgct ctaccagcag 180
agcttgacag ttccggcgga attagccgca gagctgacac cggcagagga tgtatccagc 240
ccgtcattct cgaatgtgga cgaaaccgaa gatgaagatg aaatatacta caaggttgca 300
gaggcagggc agaaagttat ccgtatatat cgccagatgc accgtgtccg actagtgaac 360
tatacttatc ttgcaacaca tcatatattc atggcgggta tgacaaagtc cctcactcga 420
taccatgacg ctgcttacac tctcctaggt 450

<210> 210
<211> 384
<212> DNA
<213> A.fumigatus

<400> 210
tgggatctag attctattct ctggcccatc ctgcattatc agtctggtgc cgacttcaac 60
gaggattact ggaaggccta ccagtgcgtc aatgagatct tcgcagatac ggtcgccaac 120
caagcgcaag acggcgatct gatctgggtg cacgactacc atctcctgct tctccctgcg 180
ctcctccgtg agcgtctcaa gagccagggg aagacgtgtc ggattgggtt tactctgcac 240
actcccttcc cggcagggga cttctggcgc tccctgccgg tcgagaagga actgctcaag 300
ggtgttcttg cgtgcgacgt gattggcttc catacggaag agtacaagcg gaattttacc 360
gaggcgtgcg aacagtgtgt gtag 384

<210> 211
<211> 252
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4),(23)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 211
agtnaagctc tccaacggcg gantggtgat tgccctgtcc ggcttgaacc actcgacgac 60
ctcaaatggt tcggctggcc gggaatcaac atcccggatc ccgaagagca gaagaaggcc 120
gcagacgcgc tggaagaaaa gggcgcgaag gggatctttc tggaggagaa gctgggccat 180
gcgcattaca atgggttctc gagtccgtta cccaaacccg actttggcag accccgagct 240
gatgggatct ag 252

<210> 212
<211> 465
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (459),(460)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 212

gcgtctcaag agccagggga agacgtgtcg gattgggttt actctgcaca ctcccttccc 60
ggcaggggac ttctggcgct ccctgccggt cgagaaggaa ctgctcaagg gtgttcttgc 120
gtgcgacgtg attggcttcc atacggaaga gtacaagcgg aattttaccg aggcgtgcga 180
acagtgtgtg taggtaccaa cgcttgcaat ccggattggg ttgcgctgac agtgaacagg 240
ggcgcccaag cgacagacag caatgggatc acattcgacg atcactgtgc tcatgtcggt 300
gtctttgtcg tgggcattga tccccagaag tttgacgatg cgttgagaga cgacgcggtc 360
atcaaacgga ttcaggaatt ggatgagcag tacagggaca agattgtcat tgccggcgtg 420
gacagactgt caacagcctc caatgaaaga cttcaaatnn gacgc 465

<210> 213
<211> 333
<212> DNA
<213> A.fumigatus

<400> 213
tggcgcggct ccttccagcc ccgtggtgaa gacggacctg cgtatttctt cgcaatggtg 60
gaacacctag ttgccagtgc cactgccctg ggcctatcca aggagcaggc cacaagactg 120
gcagctcaga cctgcctcgg tgcgggcaag atgctggtcg agtcgtcgga ggaaccggct 180
cagttgcgca agaatgtgac gagtccaaac gggacaacac acgccgccct ccagacattt 240
gagtctctga atttcaagga aattgttgac aaggcagtac aggccgccac gtctcgtgcg 300
gcggagctcg gagagacgct tggaaagctc tag 333

<210> 214
<211> 204
<212> DNA
<213> A.fumigatus

<400> 214
cggagaccgc ggactctaca gagtatacag agtatacaga cgtcaatcca cagtaaacac 60
tgctccttat caccggtact cactaataca aacattgaat taggtactac tgcaagcaaa 120
acaactagaa caagcattac catatccctc cccctcacca ctccccccgtc ccatttcatc 180
tccatagaac aagtttctcc atga 204

<210> 215
<211> 519
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (281)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 215
gatagaacca gccgcggatc cttccagccc cgtggtgaag actttgatgg ataccatcac 60
acctctgctg gtgaccccat agttttgccg aatgtagttt gctgccatga gattgatgat 120
ggaatactgt ggaagcacac caactatcgg acacagaatg ccgtcgtgac aaggtcgcgc 180
atccttgtgt tgcagacgat catcacagtc gggaactacg agtacatctt tgcatttcag 240
ttcactcaag atgcgtcggt cacctacgag gtccgcgcaa naggcattct atccacagca 300
cccattaact tgggccagac agtgccatat ggaaccatcg tggcccccgg ggtcatggcc 360
ccttaccatc aacacctctt ttctctgcga atagacccag ctatcgatgg gcacatgaac 420
tctctgatgg tggaggaatc ccacgcaatg ccccttaacg accccagcgt tcataaccct 480
ttttggagtg ggatacacaa ctgggaacca catcgttga 519

<210> 216
<211> 408

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 216
tnaagtgagg tggtgggcct cgacccctct tgtcttgcgg gttctttctt tttccctttc 60
ggttgtattg tccgttttct gttcgcctcc tgcttgtttt gttgttttcg aggtcgtctt 120
ctctttttt tccttttggt tgtcttcctc tttctttttt tctctttctg gttttgtctt 180
cctgtcgttc ttttcgttgc tttgttgctc ccctgtctcc ctgcctggtt gttcccgttc 240
tccgtctctg ctcgtttttt cgccggttcc tgcctttgct tttccccttt ttgttcttct 300
tcctgccttt ttgttttctt cttcttgtcc tctcttggtc ttgtcttttt tcttctcggc 360
ttccttttgtt tccttcttgt cttagtgttt gggatattgg ggccgtag 408

<210> 217
<211> 498
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (493)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 217
acgaaaaaga taatcaaaaa gacaaccaga ggaaacaaag agcaaaggaa aaaaaggggc 60
agacaaacgc aacaaaggaa acaccactac ggccccaata tcccaaacac taagacaaga 120
aggaaacaaa ggaagccgag aagaaaaaag acaagaccaa gagaggacaa gaagaagaaa 180
acaaaaaggc aggaagaaga acaaaaaggg gaaaagcaaa ggcaggaacc ggcgaaaaaa 240
cgagcagaga cggagaacgg gaacaaccag gcagggagac aggggagcaa caaagcaacg 300
aaaagaacga caggaagaca aaaccagaaa gagaaaaaaa gaaagaggaa gacaaccaaa 360
aggaaaaaaa agagaagacg acctcgaaaa caacaaaaca agcaggaggc gaacagaaaa 420
cggacaatac aaccgaaagg gaaaaagaaa gaacccgcaa gacaagaggg gtcgaggccc 480
accacctcac ttnactaa 498

<210> 218
<211> 489
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (480)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 218
tcaaaaagac aaccagagga aacaaagagc aaaggaaaaa aaggggcaga caaacgcaac 60
aaaggaaaca ccactacggc cccaatatcc caaacactaa gacaagaagg aaacaaagga 120
agccgagaag aaaaaagaca agaccaagag aggacaagaa gaagaaaaca aaaaggcagg 180
aagaagaaca aaaaggggaa aagcaaaggc aggaaccggc gaaaaaacga gcagagacgg 240
agaacgggaa caaccaggca gggagacagg ggagcaacaa agcaacgaaa agaacgacag 300
gaagacaaaa ccagaaagag aaaaaaagaa agaggaagac aaccaaaagg aaaaaaaaga 360
gaagacgacc tcgaaaacaa caaaacaagc aggaggcgaa cagaaaacgg acaatacaac 420

cgaaagggaa aaagaaagaa cccgcaagac aagaggggtc gaggcccacc acctcacttn 480
actaagtga 489

<210> 219
<211> 654
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (568),(569),(574),(575),(581),(583),(584)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 219
aatgatattt tgatggagta tactgagttt tggaacgaac cagcgacgta tgacctcggt 60
gctatccatt caatcatcaa ctcaagtcaa gtgctccatg tgtcgtttag tcctgggccc 120
ccagatcctt ttcccgccat actgcccatg attggtacga tggggtcatt tgactatcca 180
tcagctggac tcgatgagcc tctagactgc tatctacatg gatacgtcag ttcacgaatc 240
atgaatctag cgagaaaagc ggaaggagac ggattgcctg tctgcatcgc tgcgagtagg 300
gtagacggat taatcctgtc tcttacaccc aactcccata gctacaacta ccgctccgct 360
atccttcatg gctatgctag accagtcacg gacgaagcag ataaactctg ggcgatgaaa 420
ctcattacta attcagtgct gccggatcgc tgggaccata cccgtgttac cccagacaat 480
gccgaaatgt cttctactgt tattcttaaa gtcaaagttg tcgacggcag tggcaagatt 540
agagatggtg gtgtctccga cgagaganng gacnngaacc ncnncgatgt gaccactagg 600
gtctggaacg gtgttgtgcc tgttctagag ttaattggga gaccctgttc ctag 654

<210> 220
<211> 192
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (41),(42),(44),(50),(51),(56),(57)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 220
aacaggcaca acaccgttcc agaccctagt ggtcacatcg nngnggttcn ngtccnntct 60
ctcgtcggag acaccaccat ctctaatctt gccactgccg tcgacaactt tgactttaag 120
aataacagta gaagacattt cggcattgtc tggggtaaca cgggtatggt cccagcgatc 180
cggcagcact ga 192

<210> 221
<211> 612
<212> DNA
<213> A.fumigatus

<400> 221
ggcccccta cccctgcggg ctcagctggc ccagaccgcc caggcctgca agcgcgcagt 60
tcagcggtgc cgacgcagag cctttcgaca acagatcacc gagatcacag acatggaaga 120
cgtctggcgc gccgtccggt ggacaaagaa tcggggccca taccaggcct acacccccct 180
cttcgggatc cccgtactgg cttagtagtg tacggggtta gggagaaagc tgacctcttt 240
gcctgccaat tcttcccacc gccccccgcag gccagcctgg atgacctccg gggatatgac 300
tatcccgagc cacttagcgt accagaattc aaggagcatg aggtgctctg cgcccttcgc 360
tccgtcaaac ctgataaggc acccggccct gacagaatca ctaaccgggt gctgcaagct 420
gcgggccacg tgctggtgca atgcctgaca ggcctgtata accaatgtat ccggttggaa 480

tactgcccga acaattccgg gaatgccgca ctaacccccc ccgcaagccc cgaaagccgg 540
atttactccg tggccagagg gttccgaacc attgccctgc tgaaccccca aaccaacttc 600
ttgaaggcct ga 612

<210> 222
<211> 318
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (316)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 222
ctagatagag tctcatcgcg tctgttaaca agcacacaac agctgtacca aaccttctat 60
ggcctgttcg tctgcccctg gtacagctac tcccagatca tgatctcgga ggtcacgccg 120
cgtggccacg agtttctgtt tttcagcttg ttcagcatca tcggcaagac gtcctcgttc 180
attgggccgc tggtctccag tgcgatcatc gatgcctcgc cttcggggaa tgtctcgacg 240
ccgttttatt tcctgttcgc tttgagcgtg ggtcttcacg cgggttgccg agggtcgctc 300
tatgggccat caaagnca 318

<210> 223
<211> 201
<212> DNA
<213> A.fumigatus

<400> 223
cctctccagg cacttggcat ttacgccttt tggttcatcc agaggcgcta caacctcggc 60
acgaaggcca tgttcaacgc tatcgcagtg ggaatcatcc tgcttgacgg ctgggggatg 120
atcggcatct gggcgcagcg attcggtttc caccatgctt gggagatttg ggtgagtgtt 180
cagcccaacg tagctagcta g 201

<210> 224
<211> 753
<212> DNA
<213> A.fumigatus

<400> 224
atcagatatc tgttgcttat ttttctgtcc tcaggatggg tttcttatgc ggcctcgtcc 60
atatgttctg cgctcggtga gtacaggatg atgccagatg cagacacagc ctgctgtctt 120
atcaacggca aaaatgggta cgtccgggga aataattcct gggttctcgg acgcatcatg 180
cgagattatg agtactggat gggggagccc gtccgtgaga aaacagagtc cctcatccag 240
gctcgttggg actttgaccg gcagcgccag gagagagaag tccccgggtc ggggagccga 300
gtccctcgtc cttcgcaagc cggattagtc gtcagtctgt ggcagccaag tacaacgaag 360
ccatctggag agcccggcca cgatctgctc cattggtcgg gtatcattgt cactgtgatt 420
caactaggaa tagccgccgt accactgggc ttgtccggag attggggcat tctgatgatc 480
actgcggcag ccaccattct gtgctacgtc accggggcgc tggggcagtg gaaggtcgag 540
aagtgggcct gtcgccgtct ggacacgcga gagaagaaga actttgtctt gacgcgcgga 600
aacggggctc agcatgccat tgcgatcatc agtaatgccc gcggcctgga tctggaagac 660
cttgccacag ggttttccaa gatcgactct ccgtccatca ctctcttcgc gcagctggca 720
accattattc accccgggct ggaaggaccg cga 753

<210> 225
<211> 222
<212> DNA

<213> A.fumigatus

<400> 225
gttggtgaga tagaggcgat cccagagaat atcgaacagg gctgggatcg cgccgaggac 60
cgcatcgagc agaagtggga cggtgcagtt gacgacatcg aggagttccc ggagaatgcg 120
gcggaatgga ctggacgaaa agtcggcgag gtggaacaat tcggcgacta tataggcaat 180
gcgtatgatg agggaagggc cgagggtcgc gatgattggt ga 222

<210> 226
<211> 204
<212> DNA
<213> A.fumigatus

<400> 226
gctggcgggc ctggctccag gttggtacta tgcctgcatt caaacaaatt gactatctct 60
aacgatatag gcccgttcgc tggacttcta ctcgcagact atggcgcgtc agtgctgcga 120
gttgatcgac cgaaatccat ctccacagac cagttgactc gccggaaaac gtccatcacg 180
ctggacctgc gagacatctt cacc 204

<210> 227
<211> 204
<212> DNA
<213> A.fumigatus

<400> 227
gcaaccgttt ctccgcagcc gatgcccggg gccacgtgcg gggaccaaca atgctgccag 60
ggaagctcca gagcatatat acagttatgc agtgtgaatg tgatgattgc tatacaacat 120
ttactgttta tcaacaagta catcatgact tgcaatactg ctatgcccga gatgtataaa 180
tcaccttgtc aaaacgcggt atga 204

<210> 228
<211> 390
<212> DNA
<213> A.fumigatus

<400> 228
ttctcatctg gatcctgcgc catgtcttcc ccgcgtcttc ccactcctac aactacaaca 60
actactacta ctacgacgac gaccgcctct acgtcctcct cttctttttc ttctttctca 120
tcatcatcat catcctccgt cgctcgaaat cgtctcgcct ccatctcctc acaaatcatg 180
ggttcctcaa gcccatcagt cttctccacg gccgtcgtgc ccgccgctcc agaagatcct 240
ctctttggtc tggctcaagc ttttcgtcag gatccctcag ataaaaaggt cgatcttgtc 300
attggcgcct acagagacaa caacgcaaag ccttggattc ttcctgtagt gaaaaaggtc 360
attccccgtc cgcatagtac agcatcatga 390

<210> 229
<211> 375
<212> DNA
<213> A.fumigatus

<400> 229
gagagcgaaa acagaagatc cagaacagga aaaattcccg cattttgtgt ttctattact 60
cataccattc attgtcttac ccgtctttta attctcatct ggatcctgcg ccatgtcttc 120
cccgcgtctt cccactccta caactacaac aactactact actacgacga cgaccgcctc 180
tacgtcctcc tcttcttttt cttctttctc atcatcatca tcatcctccg tcgctcgaaa 240
tcgtctcgcc tccatctcct cacaaatcat gggttcctca agcccatcag tcttctccac 300
ggccgtcgtg cccgccgctc cagaagatcc tctctttggt ctggctcaag cttttcgtca 360

ggatccctca gataa 375

<210> 230
<211> 420
<212> DNA
<213> A.fumigatus

<400> 230
ggacgcggta cttccagcct cgtggtgaag aactgtatgt tcggctgtgg aaactaccca 60
acctggccca acctgctcga gtccatccga aaggaatctg tctacaacgt tcgtaggctg 120
cgtcatcacc catccattgt catctgggtt ggcaacaatg aagattacca ggttcaagag 180
caagcgggtc tcacttacaa ctatgaggac aaggacccag aaaactggct caagaccgat 240
ttccctgccc gttacatcta tgagaagctc ctcccagagg tggttcaaga atactctcct 300
ggtactttct atcaccctgg tagcccttgg ggtgatggga agaccacgtc cgaccctacc 360
gttggtgaca tgcatcaatg gaacggtatg ttcattgcgt cccacttcac taatcattga 420

<210> 231
<211> 381
<212> DNA
<213> A.fumigatus

<400> 231
ctcaaaatgc agacgcacat ctacctcaca caggtcgttc aagcagagac aatgatgttc 60
ggataccggg gatggcgccg ccaatggggt gacgagagac actgtggtgg tgctctcctc 120
tggcagttga acgattgttg gcctacgatc tcctgggcta tcgtagacta tttcctacgg 180
cccaagcctg cgttctacgc tgtggcacga gtgctgaacc ctattgcggt tggtgttcgt 240
aaaaagcatc atgactggag cgtgacccac gcacagcctc ccaagacgag caagtttgac 300
ctctgggttg ccaacagccg tccaccagag atcccaaggt acgtggagct ccggttcctt 360
tccgtcaaca ctgggacttg a 381

<210> 232
<211> 1137
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (701),(855),(856),(872),(879)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 232
cttattataa caggttacgc cgccgacggg tatgcccggg tgaacggaat cagtgcattg 60
ataacgactt ttggcgttgg tgagctgtcg gcgatcaatg ccattgctgg tgcatactcc 120
gagttcgtac ccattgtcca tatcgttggc cagccacaca ccaggtctca gagggacgga 180
atgctgcttc accacactct gggcaatggg gactacaatg tctttgcaag aatgaatgcc 240
ggtgtctcta cgactgtcgg acgcctgaat gatacccacg aagtagcgac actcattgac 300
aatgctatcc gagaatgctg gatccgaagc cgaccagtct atatcactct gccgaccgat 360
atggtcacta agaagattga gggagaacga ctgaataccc cgattgacct ttctttgcca 420
gctaatgacc ctgaaaagga agactacgtg gtggatgttg ttctcaagta tcttcacgca 480
gcccaaagac cggttatctt ggtcgatgct tgcgccatcc gtcacaaagt gctacaagaa 540
gttcatgatc ttatggaggc ctccggcctg ccaactttcg ttgcgccaat gggcaaagga 600
gcagtcgacg aaacgcacaa aaactacggc ggtgtttacg ctggagacgg ctccaacact 660
ggtgtgcgag aacaggtgga gtcttccgat ctgattctta ncataggcgc gatcaagtcg 720
gacttcaaca cggctggttt cacctaccgc attggtcagt tgaataccat cgatttccac 780
agtacatacg tgcgagtgcg atactccgag tatccagaca tcaacatgaa aggggtcttg 840
agaaaggtca ttcannaatt ggggcgtgtc anatgccanc ccggtgcaca cctcaacaac 900

aatttgcccg acgatgaacc gaattcgggg gatcatccaa tcacccacaa atggttctgg 960
cccaaaattg gccaatggct gaaggaaaac gaactcgtca tcccagaaac tgggcctggc 1020
aacttttggc atcctgggaa aacaaggtgc cctgcaggtt ttcccgccaa tcaatccaat 1080
ttctctgggg gtaccttggg tttctccctt gggagcttgg ccaggaagcc gccactg 1137

<210> 233
<211> 606
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (259),(266),(282),(283),(437)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 233
cagtggcggc ttcctggcca agctcccaag ggagaaaccc aaggtacccc cagagaaatt 60
ggattgattg gcgggaaaac ctgcagggca ccttgttttc ccaggatgcc aaaagttgcc 120
aggcccagtt tctgggatga cgagttcgtt ttccttcagc cattggccaa ttttgggcca 180
gaaccatttg tgggtgattg gatgatcccc cgaattcggt tcatcgtcgg gcaaattgtt 240
gttgaggtgt gcaccgggnt ggcatntgac acgccccaat tnntgaatga cctttctcaa 300
gacccctttc atgttgatgt ctggatactc ggagtatcgc actcgcacgt atgtactgtg 360
gaaatcgatg gtattcaact gaccaatgcg gtaggtgaaa ccagccgtgt tgaagtccga 420
cttgatcgcg cctatgntaa gaatcagatc ggaagactcc acctgttctc gcacaccagt 480
gttggagccg tctccagcgt aaacaccgcc gtagtttttg tgcgtttcgt cgactgctcc 540
tttgcccatt ggcgcaacga aagttggcag gccggaggcc tccataagat catgaacttc 600
ttgtag 606

<210> 234
<211> 783
<212> DNA
<213> A.fumigatus

<400> 234
cattttgcag gtgtcttcgg cctgcttcag cttgtggcct tcgccgagtt tgtccgcagc 60
ttcgttccaa gcaagcagtt ccagagactt ctgaccgcca tgatcttcat caccttcggt 120
ctcggtttgc ttgggctagt tgttctgact gtgacgggag tgatcgctcc ttggagcggc 180
cgattatact ccttgtggga cactggctat gccaaaatcc acattcccat cattgcgtca 240
gtctcggaac accagcccac cgcttggcca gcgttcttct tcgatctgaa cttcctgatc 300
tggcttttcc cggcaggtgt ctacatgtgc ttccgtgacc tcaaggacga gcatgttttc 360
gtcattatct actcggtcct tgcgagatac ttcgccggtg ttatggtccg actaatgctg 420
accttgaccc ctattgtgtg tgttgccgct gctctggcgc tgtcgtccat tctcgacacc 480
tatatggcga ctaccctccc gacaccagcg tctgaagcga aaacgaatga agactcgtct 540
tcaccacctc ttcgctcagt tcggaagccc aatgttggaa tcacctctca tgtttctaag 600
attatagtga cggcgtctgt tgtcgtctac ctgctcctgt ttgttgcgca ctgcacctgg 660
gttacatcga atgcatattc ttctccttcc gttgtcttgg ctagtcggat gcctgacgga 720
agccaataca tcattgacga ttatcgtgat tttcaccacg ggctggacgg tccgcgattg 780
cat 783

<210> 235
<211> 288
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (67),(78)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 235
ttcacattct ttctatggat caaggctgtc aaaaatgggt ctatcatgtg gggagcgctg 60
accgcantat tttacggnta catggtgtcg gcatggggtg ggtatgtttt cattacgaac 120
ctgatccccc tgcacgtttt gttccttctg tgcatgggta gatacagcac tcgcatttac 180
attagctata ccacatggta tgcgctgggg actttggtta gcatgcagat tccctttgtt 240
ggaattttgg cctatccgaa acagcgacca catgtccgcc ttgggtag 288

<210> 236
<211> 243
<212> DNA
<213> A.fumigatus

<400> 236
tattggagga actccggcgg ttatccagca gtatgcgaga tactcgtcta cgttggagcc 60
aggattacag agtggctctt cgtcagggag cgcccgcagt cggttagggg cgtcaaagtc 120
tcctccccta catcgcaaag cgacccctcg cagtctgcaa tcttccccta ctggtttacg 180
accagttgcg cctgccacgt cagctacgcg ctctggacca tcgatgtctc ctccagttta 240
tga 243

<210> 237
<211> 429
<212> DNA
<213> A.fumigatus

<400> 237
ctcagtccag ctcctatcca gtggcgacca gtcatgcctc gcgcgttggc tgtccgctta 60
acctgccagg cctgcacgcg ccgcaaagta aaatgtgaca agaagagccc ttgcaccaac 120
tgtctaaagc atgagattac atgtgtggtg gttgagaggc cgcggtggcc acgcggccgg 180
tccggaaacc aggcaataag ccgagagcaa gatctgagcg atcgtgtagc gaagctagag 240
cagttgatag agggccttag ccactccaag agaggaacgg gaaatgggtc cagcagcggt 300
ggcgagaata cgatacctag cagcggacga tcgccaaaat caccgtcaga aagggcgcag 360
acaaccgaag acttgtttca tttgcagccg gtgagcggta tgcccttgat agtagtgaca 420
attctctga 429

<210> 238
<211> 732
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (468)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 238
tgtaactggg gatataagga tgagagtggg aatggtagat ttcagtttgt ttttgacttc 60
aagatgcagg ttcaaactac tattgcagct tatgggatct acggttcacg aaattactgt 120
tacgctttat gtctcaattc tcacgagtta gttatcaatc cactgcacac tctggccaaa 180
gtctcatccc tagatctctt aacttcgcac attgctatca tttatcgaga gattgtgatg 240
ctatacttca gggactttga ctttttttcg gggacccaaa cttgcaatat caagtacggc 300
ccacgatata tgttccaaca gagagtaagg caactgagat ctatgagagt tagttccatg 360
tataagacat ccccgttagt cgaagaccaa gtgcaaccca gctgcgcaat cactgctcct 420
tcaattctgg gtgttactgt gtttagacct ccaaactggc gggacagnta ctccaacgga 480

ggcgtcaaca gccctcctcc ttctatcatg ttcacctcct tatcatcaac accatcggga 540
ggagctctca catcctcgcc agcaaagaac caaaccacca tttccgccgc aacctgtgca 600
tcatcctgcc catcacccgc ctcaatcgcc ttcaaatacc tttgtaccat ttgcccatcc 660
cacccccacc ttctcccaaa ctcgaggcat gtctctctat tcacaaacac atcgaactca 720
aagtgcccct ga 732

<210> 239
<211> 513
<212> DNA
<213> A.fumigatus

<400> 239
gttggtgaat cggtcccttc cagccccgcg gtgaagacag catctctaaa ctcaatggct 60
tcgtcctgga tgcaagaaaa ctcgtcccct aagagcagcc gccgtagggg aattgacctg 120
caaaagaagg tcgatgagct agtgcacaaa tacttcaaga tcaaatgtcc cagtcccgcc 180
ctccgcgata tcctcagaag cactgagaaa tccgatctcc tcgtcagcgc tgtccggctt 240
caggtttcac tggccagatg ccgctctcag aactttaatg acggtcagat caccatctac 300
gataaagctc tgttgacgtt gtcaaaaaat ggaaacgagc ctgcggaact gagcgtcctt 360
gagctctacc tgactgagta tctggggatt gtgcctattg ccaacacttc gtacagcctg 420
aatgtggcca ctaagcgtct tgggctgcat caggctttgg ccaagggttt gtccacagta 480
aatgttatct atttcttcac tcaatcatgc taa 513

<210> 240
<211> 219
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (10),(89)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 240
tcattaactn tggaattggc caactccaca aacttagatt cggcacaggg catcgaaacc 60
tccataaaga cgggcatcgc ggtgattcng accctctcac gggcgaaggc tctcaggaag 120
gaccaccagt tcgacacctt tttcatcccg ggcggggtcg gcaatgctgc cgctgatctg 180
ggacccaatc ctgctacaac gcatcggaaa gctggttga 219

<210> 241
<211> 327
<212> DNA
<213> A.fumigatus

<400> 241
tcaatccatc tgctagtccc cggcgtccaa tggcagaagc gggcccgctg ggtgcaggac 60
ggaaaattcc tgacttcctc cggtgttacg gcggggatcg acgcaggcct tgtgttcatg 120
gctagtacgt atgaggctca aaaggcttct gcccagggag aggaggcttc aattccaggc 180
ttcagcagag aaaaagctct gcatcatgct cattttgttg cgtttggctt ggaatatcgt 240
tgggactccc tgctaaagat gtcacataaa agtgctctta tacctttaaa tgaatcttcc 300
acctgggaca atgcagtcag atattaa 327

<210> 242
<211> 264
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 242
ttcngaccct ctcacgggcg aaggctctca ggaaggacca ccagttcgac acctttttca 60
tcccgggcgg ggtcggcaat gctgccgctg atctgggacc caatcctgct acaacgcatc 120
ggaaagctgg ttgaccgcgc cgcgaatatt ttgactgtgt gtaccgggtc catcctgctg 180
gctgcgactg gtcggctgga tggacggaag gcaacgacga ataagcggct gtacgatgag 240
ttgactccaa agtgtatgat ataa 264

<210> 243
<211> 336
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (329),(330),(331)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 243
gagattgtcc aaaagctgca ggacctgcac aacgtgttga aaggttatac tcctccgacc 60
gttgtgcacc caagcgttga gtcgctggat ccgaaaccca agtcgtcgtt cttcggctcg 120
ctgtttgggc gccagagcgc aaaggcggag actgagatcc ccgagaatct ccccaaggga 180
ttgtatatgt atggtgatgt ggggtgcggg acgacgccgc tcatggatct gttctacgag 240
acattgcagg ccaaaatcaa gtcgcacgtc gcgcatagtc cttcaccaag ggcaggaaca 300
tgccgcgcat gcgataccaa tcgcggggnn ngtccg 336

<210> 244
<211> 390
<212> DNA
<213> A.fumigatus

<400> 244
gttcgcatat catgcgccca tcctgcctgc catgaatacg acctctgtgt cccctgcttc 60
gcggctggcg agaaatcgaa aaatcacgat ccatccacgc atccgtacca ggtcatcgaa 120
cagaattcgg ttcccatatt tgaagaagac tggggcgccg acgaggaact actgttattg 180
gagggtgccg agatctacgg attgggatca tgggcggaca ttgcagatca catcggcgga 240
tatcgcacaa aagacgaagt gcgcgatcac tacatcagga cgtacatcga aagctctaat 300
ttccccctac ccgaacgcgc ggatcccgat gatacgagcc tacaagatgt cttcaccacg 360
gggctggaag gtcccgcgat tagcgtaaaa 390

<210> 245
<211> 615
<212> DNA
<213> A.fumigatus

<400> 245
cttagcgatg attccgcgca aaaattcatt ccccgctata ctcggcaagc catctcccgt 60
ctctcccgac acttgcccaa ggactttaac ctgacggctt tggacgtgct ggcgatgcag 120
aacatctgtg tctacgagca catcagcctt ggcggttcct ctttctgttc actctttacc 180
gaacaggagt ggagggattt tgcgtataat gtcgacgtgc agtactatgg ggactatgcg 240
tacgggtctc ccacgggccg tgcgcagggc atcggctatg tccttgaatt ggcggctcga 300
ctgcagggca cgttgatcta ctccagcgac accagcatta acttcaccta cgacaataat 360

ctggcacaat tcccgctcga ccagcccttc tacctcgaca tgtcgcatga cgatatcctt 420
ctgtccgtca tcaccgcgtt gggactgcgc tatttcagat atggaccgca cggcttgccc 480
gggaatgttg accatgcact caaccggaca tttgccatga gccagatgac accattcgga 540
gcgcgcctca tgtcggaggt ttggacctgt catcgtaatg cgtcgctggt tttcaccacg 600
gggctggaag gatcc 615

<210> 246
<211> 549
<212> DNA
<213> A.fumigatus

<400> 246
cccgtggtag tggataatga gggagaccac cagatgagtg atattatgaa ggaccgtgcc 60
gtgtcgggag cctcgagata ttcgccgctg tctcccagta agagacgtga ttcccgggct 120
gtcgatttac ccgagtcgga cggtcaaccg ctatccactt ccccaaagtc ccaaatcatg 180
atccgaatgc ctaatggcgc cgtgcgaatt aactggccac acctctacaa acaacgaaga 240
cgcttggaag aaaactgggc gaaaggccga ttcactaact tccaactccc gcatccggcc 300
cacccagaag agtctcatct ggagtgcgtg tatgcaattc agtttatagg gaggtggctc 360
gtcagcggta gccgggatcg gactctgcgc gtttgggatc tggagaccaa gaggcttcgg 420
tatcgtcccc ttgtcggtca cacaaagtcg gtcctatgcc tgcagtttga cccgcggcca 480
tcggaagatg tcataatatc gggcagtatc gacagaaatg tcataatttg gggattctct 540
acgcggtga 549

<210> 247
<211> 201
<212> DNA
<213> A.fumigatus

<400> 247
tacgaggaag agcgcggggg gtatctgcca tgcgaggagg tcgccagggc cattattcag 60
ggaatagggt atcaggggtt cgtatctatg gagctgtttt ccagaacgat gtcgttggag 120
ggaagccatg ttcctgttga gcatgcgcgg cgggggatca aggcttggga gatgctcaag 180
gagagattgc agttacagta g 201

<210> 248
<211> 330
<212> DNA
<213> A.fumigatus

<400> 248
tccctaactc aatcgcggtt tgtcccttcc ccgacggttg aagacgagcg cgtcaacttt 60
ctggctgtca ctcagagaat cattgactct gtgatcgcct ctccgctgga tcattcgctg 120
gctacggccg catattggat tgtcattcgg caagagatct attatgcctt gacaagggag 180
acggtcccgc atttacggtt tgattctgac cgttggccca atgcttccat cgccaacaat 240
atgatcatgt tcgtcggtaa agtcgctcag tggcgctggg ggcaaaagag ccttgatgag 300
tggagtaagt atgctttatc ttccaaatag 330

<210> 249
<211> 669
<212> DNA
<213> A.fumigatus

<400> 249
tgcaccagcc ctggatcctt ccagccccgt ggtgaagaca gtctctggaa ggtcatcaag 60
cactcccagg tcggagtgcg gaatgcgctg gccgctgctg agcgccaggg tactactctc 120
ttcgacacca tggtcaatat ccttgtcaat ggcaaggtta acgatgatat ttccaaggag 180

gtgttccagc tctatggtcg gcgaccagta tggagaaccg agtacacaac actgaacgtc 240
gaggagggcg ctacgggtat cgacgtcacg ctcacatcgc ccatggaaga gcatcgtttg 300
gagttcattc tggagcagtt ctgcatggca ctgaatctca ttgcatccaa tcctcgacag 360
actgtcaagg ctactaacct ggtcagcgag acagaactac agttcatgct tcaatcacat 420
aagaacttgc ctgatgccac tcgcacgtta aatggccaat tcgaagccac ggtccgcaca 480
taccccaatc ggacggccat taactaccag aacgagcagt tccttacata cgctgagctg 540
gattccgagg caaaccgcat gacacactat ctctccgagc ttggtgtagt gccgggtgac 600
atcgtccctc ttctcctaga gaagtcgcca ttgatgatca aggcgattct cgccttattc 660
aagctcggc 669

<210> 250
<211> 531
<212> DNA
<213> A.fumigatus

<400> 250
tactttctgt ggcaagccta tttcgatgtc tccccccgag tcccacttgg caaaatctct 60
caacaagcat gggctcagct gcattttccg tttcacgtgg ccctcatcct acttcttgaa 120
ggatcgcaaa tccttgctct caccttggat gtcactttaa aattgacgta tctgactgaa 180
acaatccagt tcgcatgcga agagccgcgg cttgaggcgg aggttgccat caggctactg 240
cgaagtacaa ttgctgattt ggatatcgaa cacggccggg gtgcgatgaa agaaaaggct 300
atcatctcgg acatattgga agagctactt acccttcctc tgtgcccgac caatgtgacg 360
agtaatggct actttgtaac ccatgaccgc atggacgatt tggtgggaca cgttacagcc 420
gctttattct ccagcatggg aattactccg tcagagggcc gagacatcag ccaactgaac 480
aatagtcagt tgttcatgat gtatattgac caccggtggc atgtcacgta a 531

<210> 251
<211> 879
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (79)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 251
cgggccatgt cacagaatga gagttcatgt ctccgcagcg aacgtgagac agccaggagt 60
cgtaaagcac cacctcatnt acgcctcgat cctctgagaa tccatcctcc tgatcctcga 120
ccttccactg ccggcgcatc tcgatctccc tccccctct taccgccggc gccgcatcct 180
ccccgaaaag catctgcata tcctcatcct gaggaccctt ttctccgtgg cacctcttct 240
caagccaggg gacctgatga aaacgcgctg aggaaaccaa cctaccgctc tccgaccttc 300
cctcgttcac cctccccaaa cttggcccga ccagaagatg attttcagcg tccgtcttac 360
cgaagaggtc ctcctccggg ccgaccagga ttacgaatct cgatgtcgac ttcgaggatg 420
tatagcagcc gcccgcgggg accgccgcca cgcgaacgct accccaatga atctccgtcc 480
cgaggccttg cattacctcg gtatacgcct aatggaccct ccgacgtcta ttcagacgaa 540
gcgctccgtt ccagcgtcaa ttcggcaatg acgtcgcgat caagcattga gcaagccagc 600
ggaacagaac gcagcagtgt cttgacgaag agcagctcca taaccgacct gtcgccggac 660
actccggatg gcccttacga aaaggatggc gggatgagcg ttgaagacgc gatttccatg 720
tacttggatg ggttcagcga tgtgacggag gagccagctt caccgggctt tggtgacgac 780
agcaaaatgc gacctatcag tccacgcccg ccgacggaac tcacgtacga ctatggacac 840
cgctccgacg agtttttacc agcgacggaa ggacgtatt 879

<210> 252
<211> 267
<212> DNA

<213> A.fumigatus

<400> 252
agtaatacgt acctcaataa gattcttgca tatgggcgcg tggggtgcta cctggcccca 60
tccagacaca gcgaccggat tctatcacgc acaagcaaga aggagagtga ggaccctgcg 120
agcaagcacc tattctttaa tgaggaccct gggggaaaaa gcgtcatgcc cactccccgc 180
cggcgaatcg tatcgcctga attgtcaggc ctgccgatta ttatcctccg atccgcttac 240
cgtcgcaact tgagaatcgt gaggtag 267

<210> 253
<211> 942
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (498)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 253
acctccatat tagcgatcct gtctgcccga atgggtcatt cttcggacac cttttcgtac 60
tctcctctca atcccgaggc tgcggagatt cgccttctca ctatcctacc cgacagagat 120
ggaaacaacc cagtgagatg caccttgcag accgtgtctc tgaacagcgc gccccaattc 180
gaggcgctct catatgtctg gggaactgtt gctgaaatgg tggaaatctt ggtggacgac 240
atcccatttc aggtcacaac gaacctcaac gcagcgctgc aatgccttcg acattctcgg 300
aagaagcgcg tcatctgggt tgactttatc tgcatcgatc aaaacaacgg caaagaaaag 360
aatacccagc tccctctcat gggccgtatc tacaaggacg cgacatctgt agttgcatgg 420
ctcggaccag tcaatcccaa catggaacag acaatgtcga tgatcaagcg acgagaaagc 480
agcctggcgg cgatcctnca ggacgtacgg cagatgacgc ggccgctgag ccggaagaac 540
cggcgcgaca ccataggatc gatcctagac gccattcagg gctttctgga catcgtttcg 600
gccccatact ggggacgcat atggaccttc caggagtact atctccccga gaagctcccc 660
gtgtgcatgg tcggcaatat ccccctttacc ctccccgcgc tagtcgatct gggtcggcac 720
tttccggaga tcctggcccc gtttgtggaa aacctcgaca aaatggctcc gcgggcgggc 780
gatgcagccg acatcgaaag ccaccagaca ctcctgagcc gtgtgaagga ggcgcggcag 840
cgcctcgcgc agtcaaatcc tatgcaggac tttgcgcacg acatcgcagc caggtcttca 900
ccggggtgga aatacacatg tataggggag gggcggcgag cg 942

<210> 254
<211> 780
<212> DNA
<213> A.fumigatus

<400> 254
atccatagtg agaggagcat tgatattgcc gttgcgcact cgcaagttct cttctcggat 60
cctctcaagt acgtcgggac gatcagccac gagttggaac aaccaagtgc aagccgcact 120
ggtggcgtct tgcgaggcga acaacaaagt gaaaacagtc tgggcgatct cgtagtcggt 180
aaactcacgg agcaagtgag aaggcttctc ggagtcttcc acagggagtc ccttggcaat 240
cttctcgttg tacttggcag aatcctgttg agccttgacc catgcgtcca tgatacaggt 300
gatctctcca ccagcagcca tatgagcctt gctcttggca gcacagttgg agaattcttc 360
aagaaccata tccgacgcct tctttccgta ccaagccttg gtgaaaggga ggatgaaagg 420
gaagttgacc agctccaaag cggctgtgat catgtagtag tcatccgcaa tcttcttgat 480
ggccgcatca gtcatatagt ggccgacgaa agtcccgcaa gagacggcac acatcagctc 540
acggaactcg ggcttccaag gctcgggctt gtaatcggtg gccttggact tttccaggaa 600
atacttggag tacttggtat taacatcttt ccttaccggg aagaatggaa gacagagccc 660
agcgggtgga aagaaccggt caaatccctt ttcggaattc aacgggcttc ttgccaatgc 720
aaaaacaacc aattggcccg gcccaagaac ttgggcgcca ggtctaacac ccaagccttg 780

<210> 255
<211> 465
<212> DNA
<213> A.fumigatus

<400> 255
tcacagccgc tttggagctg gtcaacttcc ctttcatcct ccctttcacc aaggcttggt 60
acggaaagaa ggcgtcggat atggttcttg aagaattctc caactgtgct gccaagagca 120
aggctcatat ggctgctggt ggagagatca cctgtatcat ggacgcatgg gtcaaggctc 180
aacaggattc tgccaagtac aacgagaaga ttgccaaggg actccctgtg gaagactccg 240
agaagccttc tcacttgctc cgtgagttta ccgactacga gatcgcccag actgttttca 300
ctttgttgtt cgcctcgcaa gacgccacca gtgcggcttg cacttggttg ttccaactcg 360
tggctgatcg tcccgacgta cttgagagga tccgagaaga gaacttgcga gtgcgcaacg 420
gcaatatcaa tgctcctctc actatggatc tacttgacga gatga 465

<210> 256
<211> 1137
<212> DNA
<213> A.fumigatus

<400> 256
caaggcttgg gtgttagacc tggcgcccaa gttcttgggc cgggccaatt ggttgttttt 60
gcattggcaa gaagcccgtt gaattccgaa aagggatttg accggttctt tccacccgct 120
gggctctgtc ttccattctt cccggtaagg aaagatgtta ataccaagta ctccaagtat 180
ttcctggaaa agtccaaggc caccgattac aagcccgagc cttggaagcc cgagttccgt 240
gagctgatgt gtgccgtctc ttgcgggact ttcgtcggcc actatatgac tgatgcggcc 300
atcaagaaga ttgcggatga ctactacatg atcacagccg ctttggagct ggtcaacttc 360
cctttcatcc tccctttcac caaggcttgg tacggaaaga aggcgtcgga tatggttctt 420
gaagaattct ccaactgtgc tgccaagagc aaggctcata tggctgctgg tggagagatc 480
acctgtatca tggacgcatg ggtcaaggct caacaggatt ctgccaagta caacgagaag 540
attgccaagg gactccctgt ggaagactcc gagaagcctt ctcacttgct ccgtgagttt 600
accgactacg agatcgccca gactgttttc actttgttgt tcgcctcgca agacgccacc 660
agtgcggctt gcacttggtt gttccaactc gtggctgatc gtcccgacgt acttgagagg 720
atccgagaag agaacttgcg agtgcgcaac ggcaatatca atgctcctct cactatggat 780
ctacttgacg agatgaagta cacacgtgct gttgtcaggg agactctgcg ttaccgcccg 840
cccgttatca tggttcccta cttggtcaag aaggatttcc caattacgga ctctatcacc 900
gtctcgaagg gttccatgat cataccatcg gtgtggcctg caacccatga ccctgaggca 960
taccctaatc ccgactcttt cgacccggac cgctggatca ccggcgatgc cgagaagcaa 1020
gccaagaact ttttggtttt cggcaccggc ccccactact gcctgggtca aacatatgct 1080
cagctgaacc tgtcttcacc gcggggctgg aagggtccgt gcattcacaa aagcgcc 1137

<210> 257
<211> 618
<212> DNA
<213> A.fumigatus

<400> 257
aatgagcacc gtcgtacttc cagccccgtg gtgaagaccc ttggccctaa gactccgccg 60
aagtctcgcg cgccacttaa gccccctaaa ggaggtatat tcgggcatat gctggatgag 120
tcgcgaaaga tattcgcgcg accggagcct cccaggacag cacctgctag gggctccaaa 180
attgaggcct ggctctctgg tactcctgac ccgttcctag aagacatgga tcccgatgtg 240
gaagttcctg caccccttgaa cactaggacg aaccgagcga aatcgcatag acgtgaagac 300
aaacacgacc gcaacgccga gtctgagccg tcacccgaga gtgagagtcg gaggaggagt 360
acgtccaaac gacacgggcg tagtagagaa ggctcagtga ccagtgagag aaagaaatct 420
gaggagagga aagtttcctc gaaacagctg agagacgact cttctcctcc ccaccggaag 480

aagtccagcg aacacaggca tagcagatca tcatcaggcg caaaggaggc taccacccgt 540
gatgcagatc taaaggcaga cgatcatgac acagatactc agcctttctc cgacggttca 600
gaggtattcc gggaataa 618

<210> 258
<211> 609
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (50)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 258
tctgccactg accgccctct cctagaacaa ggtcttgtgc gcatcaccan gatcaatcat 60
gtcaattacc agattctagt ttccaagctc caaaagggcg atccgctgcc acaggacttg 120
aatcccgatg agactacggg tacactggcg gatgaatcta gttattctga cattggccag 180
aagaagatgg ttgtgaatca gcaacatctg aagaatgctt gggatgcctc tcaaaagtcg 240
acgcgtgaag actggcagga atggatacga agattcagcg tggagctatt aaaagagtca 300
ccctcaccag cacttcgagc atgcgccagt ttggctggta tctaccagcc attagcaagg 360
gacctcttta acgcagcatt tgtatcctgc tggacagagc tgtacgatca gtatcaagaa 420
gagctcgtac gctcaattga gaaggctctt acttcaccca atatccctcc cgagatactc 480
cagatacttc tcaatcttgc tgagttcatg gagcatgatg ataaggctct tcccattgat 540
attcgtacac ttggcaagta cgccgcaaag tgtgtcttca caacaagcgc gaggatccga 600
ataggtact 609

<210> 259
<211> 459
<212> DNA
<213> A.fumigatus

<400> 259
ctcttgctac gtccgtacat cagttcgaac aattcggtat atgagatgac gaccatttgc 60
acgacgccca attcccctcc cgaactgtcg ggatccaagt cctctaaatc ttcgtccttc 120
cggtcctctt cgcagctgtc cggtcccgac ggtattctcg ctgacatttc caatttcgaa 180
gaaatcggtc tggaggatga cccggagatg ccttacatgg atggtgttac tgctgtttat 240
ggaaagtcgg gggtcatggt tcgctcgacg acggccagat tgcagcccaa aactccgaca 300
actacgactc gcgacttgac gtccaatgtc aaacccacca ggactccgca tccatcgctc 360
aagggccatg ccaatggcgc gttgacgaaa ccgaagcaca gcagcaccaa gatcgggtcg 420
ggcaagtctt cacgccgcgg ctggaaggat acgagtacg 459

<210> 260
<211> 975
<212> DNA
<213> A.fumigatus

<400> 260
tcgcgctcct gccagcccgt cgtgaagacc gaggatgacc tgaccgacga tgaagagaca 60
gatgaacaag aagctcccga tgttgaggct gcggcgaccg agaaagcgga tatcgaaggt 120
ctcgaggctg aggaacagat ggtcatcgac ggtggactag atcgcgatga ccaacggcgg 180
aacaagaact tgatagttcc tgcccggcaa atcgacgctt actggctaca acgccaagtt 240
ggttctgtgt ataccgatgc tcacatacaa caggagaagg ccacacaggc tttggaaata 300
cttggtggca aagccgagga tggcacagag aaatcgctgc gagatgtgga aaacgacctg 360
atggaactct tcgattatga gcacccagac cttgtcgcca aattcgttat gaaccgtgat 420
aagattgtgt gggtaacgcg ttggcgcatg gttgctgaag acgccgacgc tcgccatctc 480

gtcgaaagtg agatggttga ggctggccac cgagctattt tggatgaaat tcgaggcaag 540
acggttcgcg atgaagcggc aggtcgtccc gagaagaaga tcaagctcga tctgatggat 600
gtcgatgtcc ctagcgcgcc ggctcccgaa gagaagccta cagagggtgg cttggtcggc 660
ggtctgcagc ccaagaggct gattaacctg gagaaccttg tcttccacca aggcaaccat 720
ctgatgacca acccgaatgt caagctgcct caaggttcta ccaagcgaac atttaaagga 780
tatgaggaga ttcatgtacc accgcccaaa cccaagcgag atcctgggga gaagaacatc 840
cccgccactg aactgcctga atgggcccgt atcggctttg gcagtgccaa ggagctcaac 900
cgagttcaga ccaaatgcta cccagctgcc ttccacgatg atggcaatat gcttgtctgt 960
gctcctacgg gatct 975

<210> 261
<211> 327
<212> DNA
<213> A.fumigatus

<400> 261
aagatgaagt cgccagcttc gagaagcttg ccgaaggagg attcaatcga agtttcaaga 60
tcaccatgcg agacgggttc caatttgttg cacgaattcc ttacccagtc actgaaccaa 120
aatctctact ggttgcaagt gaagtcgcaa caatacattt ttctccgttc tcatggcatt 180
ccagttccta aaatatatgg ttactctgcc gttgcagata accctgcagg tacagaatac 240
atctttatgg aacttgttca aggacaaaac ctaggtgata tctggtttac tttgtctgaa 300
caggagagga taacgctggt cacttaa 327

<210> 262
<211> 396
<212> DNA
<213> A.fumigatus

<400> 262
agacccccctg tccttccctt tgcagaagaa aaaaatcatg tgttaaacat gaaacaggtc 60
aaagaacacc tctataaatt ccagagcctc tcctctgagg acgccgagtt cgagccgacg 120
ctcaagtccc tctggagcaa tctaggccag cacatcaaag aggaagagag tgacgatctg 180
ccttcgctgg agaagacgct tgaccaggac gactcggaga agcacacgaa gaagttcatg 240
cggacgaaga agtttatccc cacgaggagc caccccagtg cgcctgacaa gccgccgttc 300
gagaccgttg ccgggttgat ggctgcgccg attgatcatc tggcggattt gttcaggaag 360
ttccctgagg agtcgaagag tcagttgcct ccttga 396

<210> 263
<211> 414
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (80),(144)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 263
ccaggtatgt cacaacaaac cagcatctca accatcggaa agactaccac cctcaaggct 60
ccgacgacca tagtgactgn tactttgctc gcaaccaaga catcaactat taccattgtc 120
ggcgtaactc agacggtcac cagnttgaag acgacaacga tcgaatcgac cgtttcgctc 180
cgtcgacgca cactcaccgt aaccaaatcg accgtctcga cgatacattc aacggtcacg 240
ctcgccaccc ccaccagcac ggtcgtgaaa acgacaacat atagacttaa gctctcggcg 300
acgtttactt cccgggccac gagcaccaag acaacaacgg taaagaagac agttacacag 360
acgcaaacgg tgactaaaac gtccaagggg gctgggacct gtcctaccaa ctaa 414

<210> 264
<211> 198
<212> DNA
<213> A.fumigatus

<400> 264
tccctgcggc gatgcaggcc acatcacatc acatcgtgtc atttcacatg gctggcgcat 60
gaaccggctt gtccttcttg ggtcggtctg tcagatgaca tcagatttaa cgactacatg 120
gacaacgtta gtatgtggat atggaggggt aatactgagc ctacggctac tttggtttat 180
tttcttattt ccggatga 198

<210> 265
<211> 672
<212> DNA
<213> A.fumigatus

<400> 265
gcgcggatcg tgccagctcc cgtggttgaa gacccaatgt ccctcgtgat ctcttccttc 60
gcgcccgtcg gtgatttccg taagacctgg acaccagccc tccgcagcgt tgaggatgtc 120
ggtgacaccg ttctgatgtt cgttgacctc tcgtttggcc gcaagaccct gggcggctcg 180
gccctcgctc aggtcttcaa ccaggttgga gatgaatgcc ctgatctccg cgatgtggag 240
atcttccggg acttcttcga cgctactcag cagctccagg aggcaggcat cgttttggcc 300
taccacgaca gatctgatgg tggtctcttc actactcttg cggagatgat gtttgccgga 360
cgctgcggcg tggaaatcat gttggacaac atctgcccca ccaacagcac acaagatctc 420
gtatcgaccc tcttcacgga agagctgggt gcggtcttcc aggtgcgcaa ggagcatgag 480
atccaattcc gctcttgctt tgccacctgt ggccccccctg ctggcctgat ccacaagatc 540
ggtcgcgtct ccgaaaggcc aaagcagaac ttggccatct actacaaggc cagcctggta 600
taccgcaaca atcgcgcgag cctccagcag acctgggcta ccacctcgta tcacatgcag 660
aagatccgtg ac 672

<210> 266
<211> 678
<212> DNA
<213> A.fumigatus

<400> 266
gtcacggatc ttctgcatgt gatacgaggt ggtagcccag gtctgctgga ggctcgcgcg 60
attgttgcgg tataccaggc tggccttgta gtagatggcc aagttctgct ttggcctttc 120
ggagacgcga ccgatcttgt ggatcaggcc agcaggggg ccacaggtgg caaagcaaga 180
gcggaattgg atctcatgct ccttgcgcac ctggaagacc gcacccagct cttccgtgaa 240
gagggtcgat acgagatctt gtgtgctgtt ggtggggcag atgttgtcca acatgatttc 300
cacgccgcag cgtccggcaa acatcatctc cgcaagagta gtgaagagac caccatcaga 360
tctgtcgtgg taggccaaaa cgatgcctgc ctcctggagc tgctgagtag cgtcgaagaa 420
gtcccggaag atctccacat cgcggagatc agggcattca tctccaacct ggttgaagac 480
ctgagcgagg gccgagccgc ccagggtctt gcggccaaac gagaggtcaa cgaacatcag 540
aacggtgtca ccgacatcct caacgctgcg gagggctggt gtccaggtct tacggaaatc 600
accgacgggc gcgaaggaag agatcacgag ggacattggg tcttcaacca cgggagctgg 660
cacgatccgc gcttagat 678

<210> 267
<211> 987
<212> DNA
<213> A.fumigatus

<400> 267
agacagaaaa aggcagcaag ttcgaaggca ggtgtctcgc aggtactgtc tcgttacacc 60

tatgcctcca ccttgtcaca tcttcggcgt accaacacgc caattggtcg tgacggtaag 120
atcgcaaagc ctcgtcagct tcacaacacc cattggggct tggtctgtcc tgcagaaact 180
cctgaaggtc aggcttgtgg tctggtgaag aacctggctc tcatgtgtta tatcactgtc 240
ggcacaccca gcgagcccat catcgatttc atgattcagc gcaacatgga agtgcttgag 300
gagtttgagc ctcaggtgac acccaatgca acgaaagtgt ttgtgaacgg tgtttgggtc 360
ggtgtccacc gagatcccgc gcacttggtc aacaccatgc tctctctgcg tcggcgcaac 420
atgatctctc acgaggtcag cttgattcgg gacattcgtg agcgtgaatt caagatcttc 480
acggacgctg ggcgtgtgtg tcgaccactt ttcgtcgttg acaatgaccc taagagcgag 540
aactgcggct cgctggtgct caacaaggat catatccgca agctagagca agataaagaa 600
ctacccgcgg accttgatcc cgaagatcgc agggaacgtt atttcggttg ggatggtttg 660
gtcaagtcag gagttgtcga gtatgtcgat gccgaggaag aagagacgat tatgatcgtt 720
atgacccccg aagaccttga aatttccaaa cagtttcagg cgggttacgc ttcttccgga 780
agaagacaat cccaacaaag cttgttcgtt tcaatcctaa ttcaaaaagg gccacacttt 840
gaacgcaatg gcaaaattaa cccccatttt gattcttggg gggttggggc caatattcat 900
ttcctttccc gggactccaa cccagttcgg ctttggaatt acctttccaa ttctggtaat 960
ggggcaaaca agccattggg ttttgtt 987

<210> 268
<211> 375
<212> DNA
<213> A.fumigatus

<400> 268
gtaataacca tctgcgatgg gattgcacga gatcaacgaa ggctgatggt ctgcataggt 60
aaatacgtcg ctgcggtgtt gaagaatcct tctgagtccc ttggtgctca gatcctcgcc 120
gccgaagatt actacacccc tacaagaatc ctccaggagt tcgaggaggt tactggacag 180
aaagctcgat ttgtgcaggt ggatcccgat acgtttaaga gctttatgcc tggtctaatt 240
ggtgaggaga tgctgcagaa ccacctcttc attgagaatc ctggttactt caacggcagg 300
gatcttaaag agagcaatga ctggcttgag aaggctgggt atcagctaat gagctggaga 360
gagttcctgg agtga 375

<210> 269
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 269
antggaaagc ccagggtgga gcagaatatc cggtccactg gtgtgcgtgt tacatttgtg 60
ctgccagggt atttcatgag caattatccc gaagtgggta tgctgcgcaa gggcgaggac 120
ggcgtataca acctggcgta ccctgtgggt cagaacgcca agtttccact ggtcgatatc 180
gaggccgata tgggtaggta a 201

<210> 270
<211> 552
<212> DNA
<213> A.fumigatus

<400> 270
gtgtgggacg atctggcttc catcccggcg gtgttagaac ccgccgacgg cgaggcagtc 60
gtctccctcc tctcagatgc gtccttcgac cccgagtttc cctccaccgc cgaggagccc 120
tttgaacctg tcgagacgga gctcctcccc ccacaactta ccccgtcgga gatccaaatg 180

atcgagtcct tccgccgcca cgccgcgctc gagacctcga cgccgacgcc ggctacagaa 240
ccgttgtcac tgacacatag actcacgtcc ctcagtctcg tcccggacat ccagtcggtc 300
ctcgacagcg tgccagctgc gcaggctacg gacgccacgg cgctgcggga tgccgttctg 360
aagggtctgc cgggtgtagc ggagtggatc gctgtcgagg agcgatacca tgatgaagtc 420
tgggggtacc tgcgcccgac actcgaggcg gcggcgaagg aaatggagga gcgtaaggag 480
cagggcgctc ccgtggagga cgggcctgct gttagacgat tgaagatgat tttgaggcat 540
atgcagacct ga 552

<210> 271
<211> 621
<212> DNA
<213> A.fumigatus

<400> 271
aaatccaagc ctaatagcaa ggcaagcgtc cccagtgaac aaggtgagac tctgacctct 60
gacatatatc aggtctgcat atgcctcaaa atcatcttca atcgtctaac agcaggcccg 120
tcctccacgg gagcgccctg ctccttacgc tcctccattt ccttcgccgc cgcctcgagt 180
gtcgggcgca ggtaccccca gacttcatca tggtatcgct cctcgacagc gatccactcc 240
gctacacccg gcagaccctt cagaacggca tcccgcagcg ccgtggcgtc cgtagcctgc 300
gcagctggca cgctgtcgag gaccgactgg atgtccggga cgagactgag ggacgtgagt 360
ctatgtgtca gtgacaacgg ttctgtagcc ggcgtcggcg tcgaggtctc gagcgcggcg 420
tggcggcgga aggactcgat catttggatc tccgacgggg taagttgtgg ggggaggagc 480
tccgtctcga caggttcaaa gggctcctcg gcggtggagg gaaactcggg gtcgaaggac 540
gcatctgaga ggagggagac gactgcctcg ccgtcggcgg gttctaacac cgccgggatg 600
gaagccagat cgtcccacac c 621

<210> 272
<211> 303
<212> DNA
<213> A.fumigatus

<400> 272
acgagttctt cgatctttga aacgaccctg agtgacacag tcaccgataa tacatacatt 60
atgcctcctt ccgaacaaca gagcggcaac tccacgccgc gctttacgag ccagactacc 120
tccgcagaag atcttctcaa gtcgcagacc gtcggtctgg tccatctttc ggactttcgc 180
aagcgtcgag cagaggttct agagcaaaag gaacgagagg cacatgacaa gtcgctggga 240
agatttacat ccggtaactc cagaagtgct actccttcaa caggggacgt gactgacagg 300
tga 303

<210> 273
<211> 429
<212> DNA
<213> A.fumigatus

<400> 273
ggtgactgga tcctcttcac tcacgagggt ggtgtggacg ttggcgatgt tgatgccaag 60
gccgagaagc ttcttatccc cgtgaacctg agaaactacc cctccaacga ggagattgct 120
gctgctctgt tgagcaaggt gcccaagggc gtccacaatg tcctagttga cttcatctcc 180
cgtctctacg ccgtctatgt tgattgccag ttcacctacc ttgagatcaa ccctctagtt 240
gtcattccca acgctgaggg tacctccgcg gaggtgcact tccttgacct tgccgctaag 300
cttgaccaga ctgctgagtt tgagtgcggt accaagtggg ctattgcccg cagcccggcc 360
aaccttggcc tggccaccgt tccccagact ggtcttcacc acgggactgg aagaatcggc 420
gtcagttga 429

<210> 274
<211> 606

<212> DNA
<213> A.fumigatus

<400> 274
tcttacattt ctatcgtcat gtccgccaag tcgattctcg aggctgatgg caaggacatc 60
ctcaactacc acctcaaccg ggctcctgtc atcaagccga ctcctctccc tccttcgtcc 120
acccacaagc ctcatcccag acttgcctca atctacttcc ccgaggacgc cgctgtcaag 180
gatgtcttgg accagacgag gttgttctac ccttggctgc tgactcctgg cgccaagttt 240
gtcgctaagc cagatcaatt gattaagaga cggggtaaga gcggtttgct cgctctaaac 300
aagacttggc ctgaggccag agagtggatt gaggcccgtg ccggcaagga gatcaaggtt 360
gagactgtca ccggtgttct tcgtcagttc ctggttgagc ctttcgttcc ccaccctcag 420
gagactgagt attacatcaa catcaattcc gtgcgagagg taagtgactc tggcgattct 480
caaaatgggg cccgatttgg aagactaatg aacttttcta gggtgactgg atcctcttca 540
ctcacgaggg tggtgtggac gttggcgatg ttgatgccaa ggccgagaag cttcttatcc 600
ccgtga 606

<210> 275
<211> 717
<212> DNA
<213> A.fumigatus

<400> 275
caagcagatg tggtggtgta cgcaggcggt atcgacaata ccatcgaggc ggaaggccgc 60
gaccgcacca ccatcgcctg gcccggcaac caggtaaatc tgatcgacca gctctcaaag 120
atcggcaagc ctctcgtcgt ggtccagttc ggaggcggac aggtcgacga ctcgtcccta 180
ctctcgaatc cgcgcgtcaa cgctctcctc tgggccggat atcccagcca agaaggcgga 240
tccgccatct tcgacatcct cactgggaag actgcgcctg cgggccgcct accagtaaca 300
cagtacccgg cagactatgt caaccaggtt ccaatgacag atatggctct gcgtccgggg 360
tcgaacaccc caggacgtac gtaccggtgg tacgacaagg cggtcctgcc atttggcttt 420
ggtctgcact atacgacttt caagatctct tggccgcgta gagccctggg accgtataac 480
acagcagcgc tggtgagccg gtcacccaag aatgtgccaa tcgatcgggc ggcgttcgac 540
accttccaca tccaagtgac caataccgga aaaaccacgt cggattatgt ggcgttgctg 600
ttcttgaaga ctactgatgc tgggcccaag ccatatcctc tgaagacttt ggttggctac 660
actcgtgcga agcagatcaa gcctggcgag aagaggtcgg tggatatcga agtctct 717

<210> 276
<211> 600
<212> DNA
<213> A.fumigatus

<400> 276
tgcagtacaa ccggagtggt agtacggatg ttggagcgtc ccgacgactt ccaagacatc 60
actcatgttg ttcttgacga ggttcatgaa cggtccatcg acagcgattt tcttctgatt 120
gtgcttcggc gactaatgca gaaacgacca gacttgaagt tgatactaat gtccgctact 180
ctcgaggctc aacgtttctc ttcatacctc ggtggcgttc ctgtgctgaa tatacctgga 240
cggaccttcc ctgtcgaaat gaagttcttg gaggatgcga ttgagctgac caactaccgc 300
ctactggaaa acgaggcgaa ctctgtgatt gatgaagatt tggacgatac gccgtcggac 360
aacggggaag gcgacactgc tggcggcctg ctagccactc ttgaaggata ttccaagcaa 420
actcgcgaaa cggtactcac tttcgacgag taccggctcg actaccagct catcaaaaag 480
ttactagtga aactcgcgtc agcaccggag atggcatcct acagcagagc catcctggtg 540
ttcatgcctg gcatggcgga aattcgtcgt ctgaatgatg agattctctc agatccaatt 600

<210> 277
<211> 264
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (206)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 277
ttccagggga gggatgaacc ttccggattt gggaatttaa agagaagaat tctcaaacac 60
gttgaacaag gattggggcc ctattcatct gcagggagac aggaagtgga aaaaagaagg 120
caggtacttt ccttcatcct tgagcatgag tggaaaccag ctcgtctttg caagatttat 180
gggacggagc ctaggagaat ctttgntata tccctggcgc gcagagtcaa tgaggagctt 240
ggagagagta aggcagacgt ttga 264

<210> 278
<211> 228
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (107)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 278
ctttactttc cagccgaaca gcaaaaccaa tcagaggacg gggccgtctc aaacgtctgc 60
cttactctct ccaagctcct cattgactct gcgcgccagg gatatancaa agattctcct 120
aggctccgtc ccataaatct tgcaaagacg agctggtttc cactcatgct caaggatgaa 180
ggaaagtacc tgccttcttt tttccacttc ctgtctccct gcagatga 228

<210> 279
<211> 735
<212> DNA
<213> A.fumigatus

<400> 279
agaggcctga tcgggctgta tgatccgccc cgccccgaaa ccgcgggggc catccgcgcc 60
tgcgcccagg ccggcatcgc cgtgcacatg gtgacgggcg atcacccggg gacggccacg 120
gccattgcgc agcaggtggg gatcctcccg tcggatctgg gaagcgtcgc cgcggacgtg 180
gccgacgcga tggtcatgac ggcgggccag ttcgacaagc tgaccgaccg cgaggtggac 240
gcgttgccga cgctcccgct ggtcattgcg cggtgcgccc cgcagaccaa ggtgcggatg 300
attgacgcgc tgcatcgccg gggccagttc gccgcgatga cgggcgacgg ggtgaatgac 360
tcgccctcgc tgaagcacgc ggacgtcggc atcgcgatgg gccaggcggg ctccgacgtc 420
gccaaggacg cgtcggacat catcctgacg gacgacaact ttgcgtcgat cctcaacgcc 480
gtcgaggaag gccggcgcat cttcgacaac atccagaaat tcgtgctgca tctgctgtcg 540
gagaacatcg cgcaggcctg cacgctgctc atcggcctgg ccttcaagga cctggacggc 600
cagtccgtct tcccgctcgc ccccgtcgag atcctctgga tcatcatgat cacctccggc 660
atgccggaca tggggctggc catggaagtc gtcttcacca acggccgcca ggaaggacaa 720
acggtccccc cccgc 735

<210> 280
<211> 765
<212> DNA
<213> A.fumigatus

<400> 280
gcgggggggg accgtttgtc cttcctggcg gccgttggtg aagacgactt ccatggccag 60

ccccatgtcc ggcatgccgg aggtgatcat gatgatccag aggatctcga cgggggcgag 120
cgggaagacg gactggccgt ccaggtcctt gaaggccagg ccgatgagca gcgtgcaggc 180
ctgcgcgatg ttctccgaca gcagatgcag cacgaatttc tggatgttgt cgaagatgcg 240
ccggccttcc tcgacggcgt tgaggatcga cgcaaagttg tcgtccgtca ggatgatgtc 300
cgacgcgtcc ttggcgacgt cggagcccgc ctggcccatc gcgatgccga cgtccgcgtg 360
cttcagcgag ggcgagtcat tcaccccgtc gcccgtcatc gcggcgaact ggccccggcg 420
atgcagcgcg tcaatcatcc gcaccttggt ctgcggggcg caccgcgcaa tgaccagcgg 480
gagcgtcggc aacgcgtcca cctcgcggtc ggtcagcttg tcgaactggc ccgccgtcat 540
gaccatcgcg tcggccacgt ccgcggcgac gcttcccaga tccgacggga ggatccccac 600
ctgctgcgca atggccgtgg ccgtccccgg gtgatcgccc gtcaccatgt gcacggcgat 660
gccggcctgg gcgcaggcgc ggatggcccc cgcggtttcg gggcggggcg gatcatacag 720
cccgatcagg cctcttcacc acgggggcgg aaggatccga gctag 765

<210> 281
<211> 636
<212> DNA
<213> A.fumigatus

<400> 281
cggcgggggg ggaccgtttg tccttcctgg cggccgttgg tgaagacgac ttccatggcc 60
agccccatgt ccggcatgcc ggaggtgatc atgatgatcc agaggatctc gacgggggcg 120
agcgggaaga cggactggcc gtccaggtcc ttgaaggcca ggccgatgag cagcgtgcag 180
gcctgcgcga tgttctccga cagcagatgc agcacgaatt tctggatgtt gtcgaagatg 240
cgccggcctt cctcgacggc gttgaggatc gacgcaaagt tgtcgtccgt caggatgatg 300
tccgacgcgt ccttggcgac gtcggagccc gcctggccca tcgcgatgcc gacgtccgcg 360
tgcttcagcg agggcgagtc attcaccccg tcgcccgtca tcgcggcgaa ctggccccgg 420
cgatgcagcg cgtcaatcat ccgcaccttg gtctgcgggg cgcaccgcgc aatgaccagc 480
gggagcgtcg gcaacgcgtc cacctcgcgg tcggtcagct tgtcgaactg gcccgccgtc 540
atgaccatcg cgtcggccac gtccgcggcg acgcttccca gatccgacgg gaggatcccc 600
acctgctgcg caatggccgt ggccgtcccc gggtga 636

<210> 282
<211> 225
<212> DNA
<213> A.fumigatus

<400> 282
aaatgtgtag ctaccgtctt ttcctgctct gattaccaaa tgaccttcgg attcaggccc 60
gatgcccgac gtgaggatcc tagtaacgac atcgcgaccg aactcgctat cctcggtcca 120
cccgggctgg ccgaacatca tgcccagctc caactcgttt gggctaacca catcaactac 180
tcgagctgct tccaagaatc tatcttgttc ttctggtgtg catag 225

<210> 283
<211> 969
<212> DNA
<213> A.fumigatus

<400> 283
ccactagagc atggaatgga tatgggccga atgaaaagcg aggttagcat attctctcgt 60
tctgcaaccg tggaatgcaa aataagagat gtattaattg ggatagattt caaatatctg 120
acgcctaaat tgagacttga gccctcaatg ctctctgact cgcaggtttt ctcaaagaca 180
ttccacatgg tctgctcttc ttcccgttgc ataaccatcg ttgaagatat tctacgaaga 240
cgtgacgatt tgtggaaaga gggcaaggcc ccttccgcca ctggcgccac gaaaagacca 300
atcttcatct gggagcccgt gccggatcta tgcacaccag aagaacaaga tagattcttg 360
gaagcagctc gagtagttga tgtggttagc ccaaacgagt tggagctggg catgatgttc 420
ggccagcccg ggtggaccga ggatagcgag ttcggtcgcg atgtcgttac taggatcctc 480

acgtcgggca tcgggcctga atccgaaggt catttggtaa tcagagcagg aaaagacggt 540
agctacacat tttcaaggaa agagagaatt tggcttcccg cttaccatca gcctggcact 600
tctggggtta cagctgtcgt ggatcctacg ggagctggca attcgtttct gggggctctg 660
gcacaaggcc tcattagttc agaaagagac ccaggcatga tcattagctc cgtgcttgcg 720
aagtgtggag attggcagac tatcacgaag gcatcggcaa agcagagaga tatgctggtg 780
gccttgatat gcgccactgt cgctgcaggc tttgtggttg aacagattgg cgtgccccgt 840
ctaacactat caagcgaggg gaaagaactg tggaatggaa ctgaattcac ggaacgagtc 900
cgtctgtaca cgcagagatt gtatcgaaca ttcgaagagt ctccccgaaa gcattttcga 960
aacaactga 969

<210> 284
<211> 189
<212> DNA
<213> A.fumigatus

<400> 284
aggcatgatc gcgctggcgg tccagatgcc tcgaccggct caggtttccc cttgactctc 60
ttgttggatg gtgccgtccc ttcactgtat ctggagtcgc cgacagcctt tctttggcaa 120
ttcgactctg atccatactt aagcttcgtg tcctaccct ccggctgccg tcttcagaaa 180
tgttcctag 189

<210> 285
<211> 732
<212> DNA
<213> A.fumigatus

<400> 285
gttattggga gtggaattct agctgacgcc ggttgtagga gaggtgtcgc cgatgagata 60
ttagcaagac gaggagagga acgaggtcgc aagagggagc taggagattc agatccgttt 120
aatgacagtc atcatgcagc gaagcggagt agatcagagt catctcattc aatgtcgtcc 180
gtttcaacga tatcgaccag tcgatcgcat tcagtttcac cgccacgaca tgaactttat 240
actgaaagta tggggcgaga ccgagcacaa tcaatgtcgt cgcctcaacc acaatcaaga 300
aagaggcgat acagtgtctc attatcctat catactgact cttcattctc ttccggtggg 360
cgacagcgct ctcggtcgag ggaatgggag acagacagaa acacaagacg aagacgtcgg 420
gaatctagcc ctgaagagcg tggtcgacct aggaacattt ctgaagacgg cagccggagg 480
ggtaggacac gaagcttaag tatggatcag agtcgaattg ccaaagaaag gctgtcggcg 540
actccagata cagtgaaggg acggcaccat ccaacaagag agtcaagggg aaacctgagc 600
cggtcgaggc atctggaccg ccagcgcgat catgccttca gcagacctac atccggttca 660
gcgcgaaagg aaaggagcct cagtccttac agtaagcgtc tagcgcggac tggtcttcac 720
catctggggt ag 732

<210> 286
<211> 204
<212> DNA
<213> A.fumigatus

<400> 286
ctcgacttca tcgttgcaaa aactaatacc atctaccttc cccaaattca ataccaaagg 60
gcacagttgc tgagtttcta cactactatc gtaatctggt taacagggac tgaaacgtgc 120
gtcttattac tctgctcgaa catttccata tatgctgggc acaccatatc tgccaagtac 180
gcgtacaatc acctcgaagt ctaa 204

<210> 287
<211> 339
<212> DNA
<213> A.fumigatus

<400> 287
ttttctaaca ccagccaaga tgaaccttgg ttcgcggatg gcaaaaattt ggatttccaa 60
cacggcaata gtcgggaaaa gtgccctttc gcggcgcata tccgaaagtg cagacccagg 120
ggagatgtca aggatacgag tactagttcc atgatgcgtc ggggcattcc ctatggggat 180
gaagtcacta aagaagagaa cgatgaacag ataacaaaga aggagcgcgg aatgttcttt 240
ctgtgctacc aaagcaacat tgcaaatgga ttcaggcgag ttcaagagcg taagcaatcc 300
aaccactgca tcaataccac atactatctt gccccttaa 339

<210> 288
<211> 669
<212> DNA
<213> A.fumigatus

<400> 288
aaatacagta gggaagaata cggagaagga caagaacaag aagtgggagg tagcatacac 60
ggctcgaatg aggcagattg tgcctggtct cttccttgga aatgtcgagg catcatacaa 120
atgggaaatg cttcaaaaag tcgaatcaac gcatttgtct ctcttactga tgcccggtgg 180
gtgtggtgga acactactac aagagaggca ggcatcccag cacatcgtca caaatgggtt 240
cagggtgcag attcgtcgac gcaagacctc cttgctcata tgagcgatat ctgctacttt 300
atcaaccaga tggcatctcc cgttctttcg tcgttgtcct ccttggtcat cgagcacaaa 360
cacgacacga atgatgagcc atgcagagca cctccggagg ccatattaat ccactgtgat 420
tttggaatat cacgctcgcc aacgattatt gttgcctata tcatgcgcaa actctgcatg 480
ccgcaagcgg acgtattaca atttgttcaa tcaaagcaaa gaatcaaacc gagcccgaat 540
ttcactcgtc tattaaagtt tgagaggagg ttggatatca agtatgggag gacgaagaca 600
aggcagtccc gaaggcacct tagaagccat atggtcttca tccacggagg ctggccaatc 660
gggcgctaa 669

<210> 289
<211> 381
<212> DNA
<213> A.fumigatus

<400> 289
cgacaaccat ttgtcatcgg tactctcctc gagctcagcg ccgctcgtgc tgtgaacgaa 60
ctgggaggca atgacgagtc cggcgatgtg tatgcctatg ctcagcgcct catggcgaac 120
tgggatgcag gcaacttttc ccgcgatgtc acgaactggt ttacagtcga tcgcatgctt 180
caagagaacg tgcctatcta caacggaatt acgctcgccc ttcaggttga gggcgtcgca 240
agtgacaaaa ctgtgtcggg tcctctgagg agacgtctga ataacttgcg tctattgatt 300
gccaaccata atgaaatggc ccccgagaat gtccatcaaa agccgacact gggctatcat 360
caaagccagc tcctgcatta g 381

<210> 290
<211> 411
<212> DNA
<213> A.fumigatus

<400> 290
gtgacttgcc cgcgctcgct tccgaaattg agatatgtcc ccccgcctcc cctccgcccc 60
gccccccccc gccgcacctc tccactggga ttgaccacac cgaacaatac atcagcaatg 120
ccattgccga gctcgttccc cccgaaccat gcgtggagat gcgtcttcac aaggtcggcc 180
cacggaagca tgctgaacgg cgtgccgctc tgggttagga gaatggcgtc cggcaccacg 240
tccaggacag cggtgaccag ggaggcaacg gccggaggaa gatccatgtg ggaccgatcg 300
aatccctctg attcatggtc tcgcgtcagc ccaaccccca ggatcgtgat gtcggcacgc 360
ttcgcggcct caacggcccg ggcgatcgcc cgctccggat cgacaacctg a 411

<210> 291
<211> 840
<212> DNA
<213> A.fumigatus

<400> 291
cagtctcttt ctcgacgacc agcttatcat cgacaacacg actgtgcaac gaggtggcag 60
ttcttcttcg gcaaaggcac cctggaggaa acggccacgg tggatcttgt tcagggtcag 120
tcgtaccaga tcaaggtgca attcgcgagt gggctttcct ccaagctcgt caaacctgga 180
gtggtgaatt tcggcggcgg cgccggtcgc ctgggaatgg ttcaggttgt cgatccggag 240
cgggcgatcg cccgggccgt tgaggccgcg aagcgtgccg acatcacgat cctgggggtt 300
gggctgacgc gagaccatga atcagaggga ttcgatcggt cccacatgga tcttcctccg 360
gccgttgcct ccctggtcac cgctgtcctg gacgtggtgc cggacgccat tctcctaacc 420
cagagcggca cgccgttcag catgcttccg tgggccgacc ttgtgaagac gcatctccac 480
gcatggttcg gggggaacga gctcggcaat ggcattgctg atgtattgtt cggtgtggtc 540
aatcccagtg gagaggtgcg gcgggggggg gcggggcgga ggggaggcgg ggggacatat 600
ctcaatttcg gaagcgagcg cgggcaagtc acttatggcg agggcattta cgtgggttac 660
aaattactac gaaaaagtcc gacgagctgt gctctatcca ttcgggtacg gtccgctccc 720
gtccatccat gttgttttcg gtcgaactcc ctgctgactc gcttcgtccc tcaggcacgg 780
tttgtcgtac acctcctttg cgtactccga tttgacggtc gacaccgcgt ccggtacact 840

<210> 292
<211> 219
<212> DNA
<213> A.fumigatus

<400> 292
actaacgcta aggatagatt cttgatcgta ctctggactc tgtacctacg ttacacctac 60
ctgaagagag atccggtgtc gttactggac gctgagacgc acttggggct gctgcccgga 120
gctgccgcca acgctgtggc ctaccattgg gtggcgaccg cccatccgag aatggaaatg 180
tcacgtgata acacattttc gtcccttcag ccaccatga 219

<210> 293
<211> 600
<212> DNA
<213> A.fumigatus

<400> 293
ctcttcgagc tccgtcgtta tgatcaccga tctgctagtg cctcttcttc cgccaacgac 60
tctttcaact cacccttttc ttcgtctact tcgggcaaga gcggtatcgc catcaaagcc 120
tctacatcca aaccgaatcg cttcacccag ctcttctcaa cgtcccctaa gtccaaatcc 180
gaacctcaat ccgcacagtc cgctctccag gcagctagtg ggactttcca acccagtcct 240
gtcgctccgc cgatcagttc ggcatcactg tccctaccga ccatttcttt atcgacagct 300
actgcgggta atccaaatat ggacgagcct ccgaccacac ttttccaacc tccgtcaccc 360
gaagaggccc gtcggcaagc caagcaacat gcccaattcg gccccattgg ccatccaagc 420
caccgctact cgagtagaca ccctggcggt gtcttcccag agccagtgat ggacgaacca 480
ccctattatt atcttctcac tacctatatc agctacttga ttttgatagc tttcggacac 540
gtccgcgatt tcttcgggaa gcgctttcgc gaggagaatt atcggcaccc tgaaactcgc 600

<210> 294
<211> 267
<212> DNA
<213> A.fumigatus

<400> 294
ctgcttatca cggaatttat tccgagctca gctttgcacc atcgcagatc caccactgcc 60

acttggacaa tgatcaatca ccccatctcc tgggtccata cttacagcat gcatcttggc 120
taccagtctc gtggccgttt cgactctttt atcactactt gggttctgac catgcggggt 180
gcaagctgtt cccgacatta ccagccgaaa ctatgccgtc cgagcatttt aggcctcggt 240
ctgtgtctgt gtccacctgg taaatag 267

<210> 295
<211> 429
<212> DNA
<213> A.fumigatus

<400> 295
cgtctctggt cagacagctc attaatttcc cccaggatcc ctcccaactg ccgctttgag 60
atcgacgatt tcgaatcacc ctggtcatac agccaaccgt tcgattacat ccacggccgt 120
gaactcgaag gagctatccg cgaccatgac actcttttta gacaagcata tgagaacctg 180
cggccaggtg gctggctaga aatggcctcc atggacgtca actcgtattc cgacgacggg 240
acccatctca aggcggttaa tatggttgag ggggtcaaga acatgcatgc agcatcgaag 300
aagcacggga aagacatgac aacagcgcca acatggaaag caaagatgga gaaggcaggc 360
tttattaacg tccgcgagga catctacaag gtactactct gtcatacgtt cctagtcaaa 420
ccatactga 429

<210> 296
<211> 399
<212> DNA
<213> A.fumigatus

<400> 296
catacgcaag gtcacaccat gtcaggtatt ggctggggtg cgtacggcac acgagttgga 60
cagagccagg gtgtcgatgt atacagcctg ggccataatc tcttgctcaa agcgtccgag 120
tacgcagcca agtacaatct gaacgagaca gtcgagtacg atcccaagtg gtcccgttgt 180
gaagcggtca ttgtccatgg tccctgggcg actatctctg aacagaggcg cggcgagacg 240
aaccagaacc ctatgtggga cattttgtac taccagtacg tggtcaagag aaaggcaaaa 300
gcaccgtgga ctaccaaagc cagggaattc gagggcttcg agggtgctgt ctcgtccaac 360
gatcatccca gctggggtgg tctgatatgg gcatactag 399

<210> 297
<211> 366
<212> DNA
<213> A.fumigatus

<400> 297
agcttcctaa cgcccatggc tgctgggacg caagccacgc gtgaaggatg gcgggcatcc 60
tatcgtgcac taggcatcgc tgatgctgtc ctactcggtc tttttatatt cttctatgag 120
gagaccaagt atacccaagt agttatgggt gtgagcagca gtgtgcaagt tggcgacgct 180
ccaaatatct cagtcaagga catcaaaacc gaccgacaac cagatatcga gtgcactaca 240
agccggcagg aatcagatac cgctcctgcg cagcaccgcg agctagacta caatatccca 300
ttaaagacct ggcgacagag actagcgctg gtgtcataca ccgctgagcc aatctggccg 360
tgtctt 366

<210> 298
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (246)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 298
acttcggcaa aaagaacatt gacagatgct cttccgggag acgattcatg gttagactta 60
gacacttggc tatggacagg atctcggctg ccaaactgct cccgctccca gactgatact 120
tatccacggt cctacaacgc actgtttcga ctcttccccc tctattttgg tgataacctc 180
gtgtatctag cattccctca gcacaacatg cggtggtctc ttgcaggtct gctgccgtcg 240
ctctgn 246

<210> 299
<211> 249
<212> DNA
<213> A.fumigatus

<400> 299
aacgttcttc atgcggcgct cctaggtggc caccttgcag ttgttgagtt tcttgtcatc 60
atctggcctg agctcaaata tggactaatg gatattcccc cgtgtgacat atggctcatt 120
gtcacagcag gccacgcacc tattgtagag taccagcttt ttactggcgt tggcttcaag 180
ttatggtgcg ccttattatg gtttttccca aagcgcctct gctcgcctca gctgttgtat 240
atggcatga 249

<210> 300
<211> 228
<212> DNA
<213> A.fumigatus

<400> 300
gtagatagca attacgcatt cttgttaccg tcttggttgc aaccaggcaa cggccgtttt 60
agtttatttc ttttgcttga tttccctata gtggagtcga tctacgtctc agacacaccc 120
actctttcgg tcaatccagt aaaccccctcc tctatctggc tgttgtctgc ctccaccgcc 180
ttcgaccgtt ttccaggcat atcaaggcca acgataagcc tcagctaa 228

<210> 301
<211> 261
<212> DNA
<213> A.fumigatus

<400> 301
ctttctgcca cagctgccaa agccgccctg cgaaggaaga aggtccacga gaagaatctc 60
gaacagacta ctgcgcagat cgcccagctc gaacagcaga tctactcgat cgaagcggcg 120
aatatcaacc aggagacttt gaacgcaatg aaggccgccg gcgctgccat gacacagatc 180
catggctcga tgacgatcga caaggttgat gagacgatgt atgtatttat ttgcaatagt 240
tatcgcgaag gcagatactg a 261

<210> 302
<211> 426
<212> DNA
<213> A.fumigatus

<400> 302
aagagattcc gcccccacac tcctagtttg atgcaacgac agcttcgcgg cagacgttgc 60
atcatccttc tctgtagttt cctcgtccga gtcagtctgc tcttgagcct tgccatcggc 120
cttctccaga tcctgcgccc ggacaagccg ggcataagca ccgtccctgg caatgagttc 180
ctggtgcgtc ccctgctcga tgattctccc agcggacatc acagcgatgt tatccgcctt 240
ctgcaccgta gacagtttgt gcgcaatggt gatagtcgtg cggccgacag agatattatc 300
cagcgcgctc tggacaatct tctcagcctt gggatcaaga gcagacgtgg cttcgtccag 360

cagcagaacc gacggccgag aaacgatact ccgagcaatg gcaatccgtt gtttctgccc 420
tcctga 426

<210> 303
<211> 843
<212> DNA
<213> A.fumigatus

<400> 303
agacacctgc ccagacagta tgagacccag attggagaac gtgcgcgcat gttgtcagga 60
gggcagaaac aacggattgc cattgctcgg agtatcgttt ctcggccgtc ggttctgctg 120
ctggacgaag ccacgtctgc tcttgatccc aaggctgaga agattgtcca gagcgcgctg 180
gataatatct ctgtcggccg cacgactatc accattgcgc acaaactgtc tacggtgcag 240
aaggcggata acatcgctgt gatgtccgct gggagaatca tcgagcaggg gacgcaccag 300
gaactcattg ccagggacgg tgcttatgcc cggcttgtcc gggcgcagga tctggagaag 360
gccgatggca aggctcaaga gcagactgac tcggacgagg aaactacaga gaaggatgat 420
gcaacgtctg ccgcgaagct gtcgttgcat caaactagga gtgtgggggc ggaatctctt 480
tcagcggatg acaaggcgaa aacagctgcc aaagagacta tgggatacag tctcattcga 540
tgcctgtggc ttttgataaa ggagcagccg cagctgtggg gactgtactc ccttgtggcg 600
attgcgtgta ttcttggagg tcagtgtgcc caaaatatct cccagaccct tcctctaacc 660
aatggcaggg ggcacattcc cagcacaagc catcattctg gcgcggacat tgcaagtctt 720
tcaactaagc ggcagcgagg ctgttcggcg gggagatttc tgggcgctga tgttcttcgt 780
tgtcgccctt gccaacctct tcatctactt cctcctggga tggctgtcaa cacgacgggg 840
ctg 843

<210> 304
<211> 204
<212> DNA
<213> A.fumigatus

<400> 304
atggagaccc ctcagttgcc catcttccgt atttgccctg tgccaccaac tgcttgctct 60
ggccgctggt gctcccacat ccaaccccac tatggtaaac gtgctcataa catccccgct 120
ccggaactga acacgggccg ttgccacttc tccaatttca aaactccgtt taccttgttt 180
atgcagtcta cccgggccct ctaa 204

<210> 305
<211> 1038
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (758),(779)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 305
gaccacccac acattactac acgcttccac atttcttctc atcctaccca acaaataatg 60
ttcgctcgtg tattcaaggc tatgcccgcc agggcttcag ccttgacttc cgtgaatgct 120
tccattccgg ctcgcttcat ggctactgtt cgtcagcagc gtcctgctca tgagcgtgcc 180
actttcacga ttcgagatgg tccgattttc cacggcaagt ccttcggagc tcgcaccaac 240
atctccggtg aagccgtctt caccacctct ctggttgggt atcccgagtc tctgaccgat 300
ccttcctacc gtggtcagat cttggtcttc actcagccct tgattggcaa ctacggcgtg 360
ccttctgctg agcgggacga gcacggtctt ctcaagtatt tcgagtcccc caacctgcag 420
gccgctggcg tggttgtggc cgatgtggct gagcagtaca gccactggac tgctgtcgag 480
tctctcggcg agtggtgtgc tcgtgaaggc gttcctgcca tctccggtgt cgatactcgg 540

gctatcgtca cctatctgcg tgagcggggt tcttccctcg ctcgtatcac cgtcggcgag 600
gagtacgacg ctgaccaaga cgaggctttc accgatcctg aacagatcca cctggtccgc 660
caggtcagca ccaaggctcc tttccacgtg agcgccgccg atcctcagtg ccacgtcgcc 720
gtcatcgact gtggtgtcaa agagaacatt ctgcgtantc tggtcagccg tggtgccanc 780
atcaccgtgt gctccttcga ctaccccatc caacaagtgg cccaccattt cgacggtgtc 840
ttcatctcca acggccccgg tgaaccaatt cactgccagg agaccaccta ccaacttccg 900
tcgcttgaat ggagacccct cagttgccca tcttccgtat ttgccctgtg ccaccaactg 960
cttgctctgg ccgctggtgc tcccacatcc aaccccacta tggtaaacgt gctcataaca 1020
tccccgctcc ggaactga 1038

<210> 306
<211> 234
<212> DNA
<213> A.fumigatus

<400> 306
tttactgcaa tgtattcgag taccccatct cctattaccc tcgattatac cctccacgat 60
ctctacatag ccagtcagga agatggcctg aataccgtcc tgatctacta ccctttacag 120
tttggacaca accatgaggg taaatcggcc aagtttgcct acgggtacaa agtggaagaa 180
gaggatgaat ttgcaacgtc cttgactatg gccgccaacc tggtaccaca gcga 234

<210> 307
<211> 756
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (738)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 307
ctagaagatg ttcgacaggg cttgtacctt gctgttgatc ttggaggcac caacttccgg 60
gtgtgctcga tcgatcttca cggagatacc acattcaacc tcacacagtc gaagatcatg 120
atccccccgcg aactgatggc ttctggtact tccaaggatc ttttcctgtt cctagctcgc 180
cagatcgagg cgtttctgcg aatccaccat aacgaacact ttgaggctca tctgagacgc 240
cgtcgtgaac caaacagtga agaggaactc ttcgacctgg gcttcacatt cagtttccct 300
gtgcgccagt tggggatcaa caaaggtacc ctcattcgct ggacgaaggg cttcaacatc 360
cccgatgccg tcggtcacga tgtctgcgct ctcttgcaaa acgccattga tgagctggac 420
cttcccgttc gcgtggccgc tctggtcaac gataccgtgg gaactctgat ggctcgttcc 480
tacacctctc ccggtgatac ctcaactttc attggcgcca tcttcggcac tggcaccaac 540
ggtgcctatg tcgagaagct cgaccggatc accaagctgc agacgattga acacgcggat 600
tacgaaaaat cgactggaga gatgatcatc aacgccgagt ggggcagctt tgataaccac 660
ctcagtgttt tgcccaacac gaaatgggac aaggagttgg atgaagacag caacaaccca 720
ggcatccaga tgtttganaa gcgtgtctcg ggtatg 756

<210> 308
<211> 192
<212> DNA
<213> A.fumigatus

<400> 308
cgacctgcag atgtaagcgg cgaattgatc cgcagcgaca tcaccgagaa ccaggcgggt 60
gttcctctct acgtggacgt ccagatggtt gacagctcca cctgcgagcc tgtcaccggt 120
gtctatctgg acttctggca ctgcaatgct actgtaagtc ttccgtgcat aggcgcaaat 180
ggatgcaact aa 192

<210> 309
<211> 426
<212> DNA
<213> A.fumigatus

<400> 309
ctctgcccag tcctaaccca ctccctcaac gaaaccaccg tcaacgccaa caacaccctc 60
caggccctct acaccgcgca ctccgctcat gtcggccaga ttttcttcga tcaggacctc 120
atctctaccg tcgaaaagct ctcgccctac tctaccaaca cgcaggagct cactactaat 180
gacgaagaca gcatccttgc cgaggaggcc gacaccatcg atccctttgt cgaatacggt 240
tttctgggtg actctggttc tgacggtttc tttgcttgga tctcccttgc catggacttc 300
ctccaaagca gctttgggac tcctgctgct tactatactg aggatggggg ggccagaaca 360
gcaacttcgg ggggtcccgt ggtccccgtg ggctccggtt ttggtggccc ctggcggggc 420
ttctcg 426

<210> 310
<211> 408
<212> DNA
<213> A.fumigatus

<400> 310
cccactccct caacgaaacc accgtcaacg ccaacaacac cctccaggcc ctctacaccg 60
cgcactccgc tcatgtcggc cagattttct tcgatcagga cctcatctct accgtcgaaa 120
agctctcgcc ctactctacc aacacgcagg agctcactac taatgacgaa gacagcatcc 180
ttgccgagga ggccgacacc atcgatccct ttgtcgaata cggttttctg ggtgactctg 240
gttctgacgg tttctttgct tggatctccc ttgccatgga cttcctccaa agcagctttg 300
ggactcctgc tgcttactat actgaggatg ggggggccag aacagcaact tcgggggggtc 360
ccgtggtccc cgtgggctcc ggttttggtg gcccctggcg gggcttct 408

<210> 311
<211> 543
<212> DNA
<213> A.fumigatus

<400> 311
gggggagaag ttttcagatt attaaggggg gatgtttgtg ttgcggttga taggaggagt 60
caagacacaa ccagcggttt caatacggag agagagggga gcaacgtcga gcagcaggat 120
ttcgttggtg aatttggaag aggtgtcacc agacaggata gccgcctgaa cggcggcacc 180
gtaggcaacg gcttcgtcgg ggttgatgga cttgttggct tccttgttga agaagtcggc 240
gacgagacgc tggatcttgg ggatacgggt ggaaccgccg acgaggacga tctcgtggac 300
ggaggacttg tcgagcttgg cgtcacgcag gacacgctca acaggctcca tggtagagcg 360
gaagaggtcc tggcagagct cctcgaaacg ggcacgggtg atggaagtgt agaaatcgat 420
accctcgaag agagagtcga tctcaatgga ggtctgagca gcggaagaga gggtacgctt 480
ggcacgctcg caagcagtgc gcagacggcg gagagcacgt gcgttggtgg tgagatcctg 540
tga 543

<210> 312
<211> 468
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (380)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 312
acagggttag ccactgtcaa tagagatacc ataggaaagg gatctacata ccttcttgtg 60
ctttctcttg aattcattaa caaagtggtt aacaagacgg ttgtcgaagt cctcaccacc 120
caggtgagtg tcaccagcgg tagccttgac ctcgaagata ccctcctcaa tggtcaggag 180
ggaaacatcg aaagtaccac caccaagatc gaagatcagg acgttacgct cgccctcggc 240
cttcttgtca agaccgtagg caatggcagc ggcagtaggc tcgttgatga tacggaggac 300
gttcaagccg gcgatgagac cagcatcctt agtggcctga cgctgagaat ctttgaatta 360
ggcggggaac gtgattacan ccttgttgac agtgccaccg aagtaagctt ctacggtctc 420
acccctcctg gtccaggacc atgggaagag atctcttcca ggggttga 468

<210> 313
<211> 657
<212> DNA
<213> A.fumigatus

<400> 313
ccattgagga gggtatcttc gaggtcaagg ctaccgctgg tgacactcac ctgggtggtg 60
aggacttcga caaccgtctt gttaaccact ttgttaatga attcaagaga aagcacaaga 120
aggtatgtag atccctttcc tatggtatct ctattgacag tggctaaccc tgttcacagg 180
atctcaccac caacgcacgt gctctccgcc gtctgcgcac tgcttgcgag cgtgccaagc 240
gtaccctctc ttccgctgct cagacctcca ttgagatcga ctctctcttc gagggtatcg 300
atttctacac ttccatcacc cgtgcccgtt tcgaggagct ctgccaggac ctcttccgct 360
ctaccatgga gcctgttgag cgtgtcctgc gtgacgccaa gctcgacaag tcctccgtcc 420
acgagatcgt cctcgtcggc ggttccaccc gtatccccaa gatccagcgt ctcgtcgccg 480
acttcttcaa caaggaagcc aacaagtcca tcaaccccga cgaagccgtt gcctacggtg 540
ccgccgttca ggcggctatc ctgtctggtg acacctcttc caaattcacc aacgaaatcc 600
tgctgctcga cgttgctccc ctctctctcc gtattgaaac cgctggttgt gtcttga 657

<210> 314
<211> 351
<212> DNA
<213> A.fumigatus

<400> 314
ttcaaagatt ctcagcgtca ggccactaag gatgctggtc tcatcgccgg cttgaacgtc 60
ctccgtatca tcaacgagcc tactgccgct gccattgcct acggtcttga caagaaggcc 120
gagggcgagc gtaacgtcct gatcttcgat cttggtggtg gtactttcga tgtttccctc 180
ctgaccattg aggagggtat cttcgaggtc aaggctaccg ctggtgacac tcacctgggt 240
ggtgaggact tcgacaaccg tcttgttaac cactttgtta atgaattcaa gagaaagcac 300
aagaaggtat gtagatccct ttcctatggt atctctattg acagtggcta a 351

<210> 315
<211> 528
<212> DNA
<213> A.fumigatus

<400> 315
ccctgttcac aggatctcac caccaacgca cgtgctctcc gccgtctgcg cactgcttgc 60
gagcgtgcca agcgtaccct ctcttccgct gctcagacct ccattgagat cgactctctc 120
ttcgagggta tcgatttcta cacttccatc acccgtgccc gtttcgagga gctctgccag 180
gacctcttcc gctctaccat ggagcctgtt gagcgtgtcc tgcgtgacgc caagctcgac 240
aagtcctccg tccacgagat cgtcctcgtc ggcggttcca cccgtatccc caagatccag 300
cgtctcgtcg ccgacttctt caacaaggaa gccaacaagt ccatcaaccc cgacgaagcc 360
gttgcctacg gtgccgccgt tcaggcggct atcctgtctg gtgacacctc ttccaaattc 420
accaacgaaa tcctgctgct cgacgttgct cccctctctc tccgtattga aaccgctggt 480

tgtgtcttga ctcctcctat caaccgcaac acaaacatcc ccccttaa 528

<210> 316
<211> 666
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (656),(657)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 316
ccaaaacaga tggccgagga ggtgcgcaat gcatctgtgg caatcccgag ggctattctc 60
ctgtcggttc tcattaatgg agcgctcgga tttggcatgt tgattgctgt attgttctgt 120
ctgggtgatc tcgacgcggc cctcgcaact cccaccggat atccatatat ggagattttc 180
cgccaggcaa ccgattccct ggcgggtgcc ctgggaatga cctcgatttt attgatcatt 240
ggcgtctgct cggtgattgg aatgctcgcc gctacatctc gtcagttctg gtcttttgcg 300
cgtgaccggg ctgtgcctgg atggcgcatc tggagcaagg tatcatatcc tcacccccat 360
gcgctttcaa ggaccatcac tgacatgctg cctcgtcagg tctcccctac caactgcctc 420
cccacgtact ccatcatgct cacaatgacc gtatgctgtc tactcggcct tatcaacatc 480
ggctccagcg tcgccctcaa cgccgtcgtc tccatggccg tgtctggtct ctatctctcc 540
tacctcatgg tcggaagtct tcttctctac cggcgatgca cgggcgccat ctcgcaatac 600
gaccatggag aagacggggt catcagtctt caccgggggt ggaaggcgtt ccaggnnaca 660
atcact 666

<210> 317
<211> 507
<212> DNA
<213> A.fumigatus

<400> 317
ggagaagaca tgacaggtag gcatacaatc gaatccccca ttggcactac taacctcatc 60
gtcataggat gggttaccgt catcggctgg caggccgcat tcgcctcgtc ctcgtttctc 120
gcaggaactc agatccaagg cgccatccgc ctcggtcacg aactttacca ggcgaagccc 180
tggcatggaa cccttctcat gtgggcggca gtcctgctgg cgttgggcat caacgtggtc 240
ggaggcaagc tgctcccccg gcttgagacg gtcatcctgg tggttcatct gctgggcttc 300
tttgccattc tcatcccgat gacctacatg gccgaccaca agtccaccca cgaggtattc 360
ctcgaatttg tcaacagtgg cggatttccc actcagggtc tctcgtggtt cgtgggaatg 420
acaggctgcg ttttcgcctt tgctggtggc gatgctgctg tgcatgtatg gaactctctt 480
cggacccccc ttcagaagat tggatga 507

<210> 318
<211> 798
<212> DNA
<213> A.fumigatus

<400> 318
agacgcattg acaaaacttc cattcactgt ttcctgttac gaaatcctcg tcttcaatac 60
atcaatgtct ctggattatc gactgtgacc aactccgcca tgaagattat cgcccagaaa 120
tgcccgcatt tagagattct taatatctcg tggtgcactg gagtcaacac gaccggcttg 180
aggaaagtta tccaggcctg cccgagattg aaagatttgc gggctagtga aatcagtggt 240
tttcacgatg aagaatttac ccttgagtta ttcaggagga acaccttgga aaggttaatc 300
atcagccgta ccgatctgac ggacgacagc ctcaaggttc tcatgcatgg tattgacccg 360
gaaattgatg tgcttacgga ccggccaatc gtcccacccc ggcgtctcaa acatctggac 420
gtgcaccagt gcccagaatt gacagatgtt ggagtaaaga gtctggccca caacgttcct 480

gagctcgaag gccttcagct ttctcaatgc ccgcagttga gcgacgattc agtcatcgat 540
gtcatccgca cgactccttt gttaactcat cttgagcttg aagacttgga acagctcacc 600
aacaacactc tagttgaact tgccaggtgt ccgggtgccg aacgtcttga acacctcaat 660
atcatctatt gcgagagcct aggtgacgtt ggaatgcttc acgtgatgaa gagctgcccc 720
aacattccgt tcgtggagat gggatatact cggatccctg atctcacttt gaaggaagcc 780
attttccgcg tccgttaa 798

<210> 319
<211> 225
<212> DNA
<213> A.fumigatus

<400> 319
tatataagga gtttctataa agataaaacc agttccctaa agttcttctt gtttgcatgg 60
tctataagaa tcatatcttc ttctctaaaa cataatatta ccctgattgg tgctggtact 120
ataggaatat ccctggcagc tctttatcta gcccaccttt attctctaga aagcctcact 180
attatagata tatggcctga cctggccgca gttgttgaag attag 225

<210> 320
<211> 255
<212> DNA
<213> A.fumigatus

<400> 320
cgcggatgtc gccctcgtgt gaagacagat gattcggttg ctgcacagat atacaaattc 60
aacgctgtgg acatgtgcga gctcgcaaaa cattcagtcg agcaaagcgg ttttgaactg 120
tcattgaaga agagatggct tggtgcgaac tgttctctcc gtggggtcgc aggaaataat 180
gtcgcaaaaa gcaatgtgcc agacatccgg gagcaattca gacatgaaac tttacttggg 240
gaacttgcct tgtaa 255

<210> 321
<211> 192
<212> DNA
<213> A.fumigatus

<400> 321
gggcgtgtgc tgatattagt caattctaaa cagtatgcta ttcggcctac aataaggggc 60
aacaataaat tcaacaggga tagtgtgatc aaaacaattg cagatgtcgt aggccccgaa 120
catccagttg atctcaagaa ttacgatttg atcatccttg tccatcttat ccaggtgagt 180
tgccttatat ga 192

<210> 322
<211> 213
<212> DNA
<213> A.fumigatus

<400> 322
tggaatgata cacagcatca tctatcgggc cagccttcat ataaggcaac tcacctggat 60
aagatggaca aggatgatca aatcgtaatt cttgagatca actggatgtt cggggcctac 120
gacatctgca attgttttga tcacactatc cctgttgaat ttattgttgc cccttattgt 180
aggccgaata gcatactgtt tagaattgac taa 213

<210> 323
<211> 954
<212> DNA
<213> A.fumigatus

<400> 323
ggtgagactg tcatttctgc tcagtccctt gagaatgcta aacaagacaa ggtcgatgtg 60
tgggcatatg gctgcactct cttcgaattc gcaacgggaa acccccccaaa ctccaattta 120
cgggagcgga tgcaaattgg aaggcaactc aaccgtacca caccgcgtct tgcaaatgaa 180
gattacagtg aaggccttaa agacctagta tcattcgctc tcgagtcgga ccccatattg 240
cgcccgacaa tggcagacat catgtcacat tcgtatattg ctgaaacaga cgagcagtat 300
ccgacttctt cacttagcga gttggtgcgc atctactatc aatggtctca gcggggaggg 360
cagagaattt cgttattcca tccgggaggt gctgccgccg cggaatttcc cgattatgag 420
ccagattttg aagaagactg gaacttcagt acaacagatg gctttgaacg gagattttcc 480
gtcattgatc tggatcggat agcggcctcg ttggccgagc tagaagagga gatgagtcca 540
gcgacaacaa atcagcagga ccgcgattcc ttcgatgagc ctgcgggacc cgaaatgtcc 600
atggaagaca aggccaattt cgacgagcgt gtccgccgag gcgctgcggc aatggagggg 660
ctattcaacg aggacatgcc gagttacaag tacgaaacga agaacgattt tgtgcccatc 720
gagcccaagc ccccagcgtc tgatctgcct cttcgcacgg agacagatcg gtcttccgtg 780
acgtctacat ttattgacat tgacatcggc tcattcgact cgtcgcatta tgctgctgga 840
gctgcatcgg cacagccgtt ccaacttgca gacgcggata cgattagggc caatagatcc 900
gctggtcgac agcaacacaa gtcttcacca cggggctgga aggagcagcg acat 954

<210> 324
<211> 540
<212> DNA
<213> A.fumigatus

<400> 324
gagcaactgg tgataagctt gaggaaaggt tcatcatccc catcgcacga gagttggctg 60
ctggcttgcg tgcgattcac gaggctggta tcatccatcg ggacattaag ggtatgtagc 120
ttcggctgcc ggaatttaac tcaacttctg acgccattgg tagctgcaaa cattttgatt 180
cacgaggaag gccggcttca gatctgcgat ttcggtgttg cgggagtact ccagtcgcac 240
gtagacaagc gatcaacctg gattgggacg ccgcactgga tgccaccaga gatgttctca 300
actcgaggcg aagctcacaa atatggaagt gaggtgagac tgtcatttct gctcagtccc 360
ttgagaatgc taaacaagac aaggtcgatg tgtgggcata tggctgcact ctcttcgaat 420
tcgcaacggg aaaccccccca aactccaatt tacgggagcg gatgcaaatt ggaaggcaac 480
tcaaccgtac cacaccgcgt cttgcaaatg aagattacag tgaaggcctt aaagacctag 540

<210> 325
<211> 777
<212> DNA
<213> A.fumigatus

<400> 325
ataaccccgc gggaatcttt cgaaatgcgc gtcaggttgc cacgaacccg atatggggtg 60
tctttagtgt tcaggtgtgt tgtttgcatt gggtcttcag catctcacgt tgaccagact 120
cagcaggtag cgattggaaa cggcgccctg gaggagtcac agggtaaagc catggtcgac 180
gaggccttga aacggaacgt caagttcttt gtgtacacct ccgtcgaccg gggcggggag 240
tcatcgacca cgaacccaac acgcatcccg cacttcatcc acaagcacaa catcgagcag 300
cacctgatgg aaaaggccag gaacaccgag atgaggtggt ttatactgcg tccaaccgcg 360
ttcttcgaca accttgtccc cggattcttc ggcaaggtct ttgcgacttg tttcaagatg 420
gcgcttaagg ggaaaccgtt gcagatggtg gccaccagcg acattgggta ctttggcgcg 480
gaaggattcc tccgcccgga cacatacgcg ggcagaggtc tctcactggc gggcgatgag 540
ttgacctatg accagatggt ggagattttc gagcagaaga ccgggcagca gattccgtcc 600
acttttcggc cgctttgttc gttcttcatg gcgtccatga aggatatggg atatctgttc 660
aagtggttcc atgatgcaag atacaatgcg gacatccctg agctgaaaag gattaacccc 720
aacctgaaag actttggggc gtggttggac gaggagagtg agttcaggaa gcgctaa 777

<210> 326

<211> 192
<212> DNA
<213> A.fumigatus

<400> 326
gccgtcccca aaactgccga agtaattaag ggcaatggac catacctaac ccaattggct 60
tgtcaccccg aattctatcc tgaaatactg tcctgggtgg acccccccc tagctgcatc 120
gatggtgcct ttagacatca gccctgttca aggccgggta tactatcgga acccatcgcc 180
tccaaaagct ga 192

<210> 327
<211> 531
<212> DNA
<213> A.fumigatus

<400> 327
aaattgggta tccttggttt ctcccgcgct ctggccattg aaggtgccaa gtacaacatc 60
aaggtcaaca ccattgcgcc taacgcgggc accaacatga cccgtaccat catgcccgag 120
gagatggttc aggccttcaa gcccgattat gttgctccga tggttgccct tctctgctct 180
gacatgtgcc cggagcccag cagcaagggt ctctacgagt gcggcagcgg atggttctcc 240
agcactcgct ggcagcgctc tggcggccat ggattccctg tggatgtgaa gctgactcct 300
gaaactgttc tcaagaactg gaagcagatc actgacttcg atgatggtcg tgctgaccac 360
ccccaggaca gccaggctgg tactgagaag gtgatggcca acatgtccaa ccgcagtggt 420
ggtgaaggtg gcaacaacat cctcgccaac attgagaagg ccaagcaggc caccactgag 480
ggcaccgctt tcgactgtct tcaccacggg gctggaagga gccgcgccac a 531

<210> 328
<211> 291
<212> DNA
<213> A.fumigatus

<400> 328
caaggccttc accaacatga acgaatgatc tctggaacgg ctgttatcaa cgttcatctg 60
cgtggtacct ataaggtgac caaggctgcc tggccccaca tgctcaaaca gaagtacggt 120
cgtattgtca acaccactag caccagcggt atctacggca acttcggaca ggccaactat 180
gctgccgcgg taagacctcg aattcgatca tgctcactgg aaccgtatgg gtttgctaat 240
cgtggtctag aaattgggta tccttggttt ctcccgcgct ctggccattg a 291

<210> 329
<211> 303
<212> DNA
<213> A.fumigatus

<400> 329
cgctcccatc aactgaccgc tcgaggcaaa gatgacctct taatcgacgc agttgccgag 60
aatatgcagc agtggacccg acttcaaggg acactagagg aacagctcag ccaggcgcgt 120
cactttgtct cacaatacca acgctacagc gaaactcgtc ggttcagtga gcaaatgcat 180
caaaccatcg acgccgcgga gcgagacatc caaaatcaag tggataaact agaacagacc 240
atgcgagatc tcttacagat agcaagttat atcacccccc ttcacgtcca gcatcagaac 300
tga 303

<210> 330
<211> 534
<212> DNA
<213> A.fumigatus

<400> 330
atccgtctgt gtcacagggc atcgatgggg acggtggcgg tcgcacatac tgtgtggctg 60
ttcgtacttg cgcggttgct ccagggcggt gcgacagcca tggtggccgt cgcgggtctt 120
gcactcatga ccgactcggt ctcgttcgat aacctgggcc agacgatcgg gtatctggga 180
tcgtcgatcg cgctgggctt cctccttggt ccattgcttg gcggactagt ctacaatgca 240
gccgggtaca atgcggtgtt tgccatggcg tttgcgatta tcggcgtcga cttcgtgatg 300
agagtggccg tgatcgagaa gaaggtagct cgcgcgtatt tgtcggattc gcctgaggag 360
aatccacgtg aggaataccc gcagcgccca ccacaaattt cggaaactgc aacggggtgg 420
aggaacattg ctctgttgcg catagccagc cagccacggg tagtgatctc gtcgttcgcc 480
ctactcgtcc agggcatctt atattccgcc tttgactcgg tacgctcttc atag 534

<210> 331
<211> 432
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (336)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 331
ttcttagcat gcaggacgat caacaaccta gcctacctcg ttcccatcct caccaacgtc 60
cttgtggggc gccggacaat gcaccacggt ccgttttacc tgggtcatgc gcccggtatg 120
gctgtgaaca tcattaccgt tgcatggctg gtgttcgcca ttgtgttttt ctcctttccg 180
tattatatgc cagtcactgg tgagtgcaaa cttgtggata agaagctggt ggcgtcggcg 240
aaggctgaca ggctggacag cggcgaatat gaattacact tgtgtctgtg ttggtggatt 300
cctgctcatc gcgttgctct ggtgggttgt tgcggnggac aagtactcga agaatatgca 360
gaaggcgcgc gaggaggagc aaaatgctgc tcgtgctatg atggttactc acgagggaaa 420
agagtaggat ga 432

<210> 332
<211> 255
<212> DNA
<213> A.fumigatus

<400> 332
gtaccggtcg agttttctgg gctttcgctc gagacggcgg cctccctttt tcgagaatgt 60
aagcagcttt ccaacgctag tcatttcgta ctacgaaacc cacctaacat gcagtctagc 120
tgggcaaaag tcaaccccca cttcgaaacc ccatttaacg cccagctatg cgtgggcatt 180
atcactgccc tgctgggctg tatctatctc ggttctagca ccgccttcaa cgccatgatg 240
agctccgcag tgtaa 255

<210> 333
<211> 606
<212> DNA
<213> A.fumigatus

<400> 333
tccagcctcg taggcatata cgaaaagcaa agcactcccg ggccggccta ctctagttta 60
gatatccaag attctgtcca tcagtcatcc tcgacacaca agaggcattc aagcctcaag 120
ccgtcggaat ggtcgcacca gcgactgagc gaaaacaaag cagtcgattc ggaaagcgat 180
gatgaaagcg acggcgaatg gaaagacatg cccgccctag gcgaattcga cgtctacgac 240
gattatgggc gattgattgc tcgtggcgcc aaagaagagg gcgacgacgc agtttatcag 300
ggcctgggtg gcgctggaaa gggatatact cgagtacaac tcgacgaaga cgcgcagtcc 360
gcgacaagtt tggatcagga caccagctat ctcttcaagg aaactgccgg caactctgta 420

ggagtagaag gagaagagct gcgcgacccg ctcagtcaac tacaggctac aaaagatctt 480
ctgaccgaga gtcaaaggat cgcttatgtc ggagtgacgc ggctgatgat ctaccagatg 540
acccaggact tggaaaagct accaacgact aaggcttctc gcaaggcgaa acagaaagcg 600
gccgac 606

<210> 334
<211> 627
<212> DNA
<213> A.fumigatus

<400> 334
aatctgggca atatgcatat ccttccagga tcccaacatg cggcagagtt ggacaacagt 60
ggaactctaa tacactctgt ccattgcgat ccagaacaga aagccaagaa tatcccgcaa 120
tcgacgggta tagctcaagc gagctctgaa tggcgaccgt cataccatct tgctgcgccc 180
cgggggtgga tgaatgaccc ctgtgggctt gggtatgacc cgacgactgg actgtaccac 240
ctgtccttcc aatggaaccc gcatgggaat gactggggca acatctcctg gggccatgcc 300
acctccagcg atctagtgtc ctggcaaata tcccccgaac catgtctcac gccgtctgcg 360
gagtatgatc gatgcggcgt gttcactggc tgcttccgtt ctcatggtcc agatggcaag 420
ccaggtgtac taacgtatgt atacacatcc gtaaatcacc ttccactcca ctatactctg 480
ccgtatgtca agggcagtga atcgctcagt atagctgtct cccgtgacca tggcaagacc 540
tggcaacgaa tcgacagtaa tccgattcac cccggcgccc ctgcaggact cgaggtgaca 600
ggctggagag acccttatct gaactga 627

<210> 335
<211> 231
<212> DNA
<213> A.fumigatus

<400> 335
ccgggttcga aagcccttgg cgacatcacg gcaggcgaga ataatggtat ggcatccaag 60
gcccatgagc tggcggcatg tttcgaggcc gagccctgct gttggtccgg tgacgataac 120
agtctgaccg gtgagtctga aatgcaatgg ggttggcgtc acgggggggt tggaagaatc 180
gcattttgtc aggtttgtgg atctttcaca gatgaactga taatggctta a 231

<210> 336
<211> 708
<212> DNA
<213> A.fumigatus

<400> 336
ataggcgcac ttcccgactc agtctgtatg gatccttcct taagccatta tcagttcatc 60
tgtgaaagat ccacaaacct gacaaaatgc gattcttcca acccccccgt gacgccaacc 120
ccattgcatt tcagactcac cggtcagact gttatcgtca ccggaccaac agcagggctc 180
ggcctcgaaa catgccgcca gctcatgggc cttggatgcc ataccattat tctcgcctgc 240
cgtgatgtcg ccaagggctt tcgaacccgg tcaaccctcc tctcggagta tgtgacccgg 300
gcagccatgc atggtagccc gtccgtgaag gtactgaagc ttgacctggg cagtttcgac 360
agtgttttat tatttgcatc ccaggtgaag agcgagatcc cagttgtgga tatcttgata 420
ttaaacgcgg gggttggatt tctgaaggac ttccgctcta ccccggacgg ccacgaattg 480
actctgcaga ctaattatct ctccaatgtg ctgctcctcc tggaactcct cccctatctg 540
cagcagtccg cacggggccg ccagcccgcc agggtcacct ggctcgggag tcgatctgcg 600
tacgactcca acctcgttcg catggtcgct ccgcactcgg acctttcgg ggtatctgga 660
cgagtgtctt caccacgggc tggagatccg cgactgggtg atccgcaa 708

<210> 337
<211> 366
<212> DNA

<213> A.fumigatus

<400> 337
tatttatttc atactaccac agtatccatc ttgattcttt ctccagttat ccacgaccag 60
atcttgggga tgccgtctgg gcccaggaag cgcatgccaa gtgtaagtga tgactgcaac 120
aacagtgaaa gcttccagca gaagaaagca aaaaaagaag catcaataag ttcatcacct 180
cacaacatgc ataacgcagt gaactggaaa attgatgcaa atggagacaa attctgggag 240
ctttctaaaa tgcgtcgggt cactatctcc tcctttcgag ggaagacact cgtcaatatt 300
agagagtatt acgagaagga tgggcaagag ctccccggga aaaaggtaat tatgagatcg 360
acatga 366

<210> 338
<211> 696
<212> DNA
<213> A.fumigatus

<400> 338
gacgaggtta tacccgaaga acagtggctt atggccgtgg atgccgatga tgacacgatc 60
gagaatgcta tcgcccgaaa ggaagcgaga gtcgagcgtc gccgcttgaa taaggagaag 120
cgtcagaaaa gagccatggg cattgagtca tcgccagagc catcgcgcga aagttcggag 180
accccgcagc ccaagaagcg tggtcgtagg ggtcctgcgc ctaaacgcaa ggcggaggag 240
cccgttgagg aaaccccgca accgaagcgc aagagaggca gacaaccgaa acctgtggaa 300
accttgagta gcgaggaccg cgccacgctc cagcggatcc tcaacaccgc ataccaggcg 360
ctgatggata tggagcaaga gctgccagcg gattcatccg acagcgagga cgggccggtt 420
acgcgctcga tcatcgagcc attcatgaag ccacctccta aatcacaata tcccgactat 480
tacctgatta ttcaaaaccc gatcgccatg gagatgatca ggaagaagat aaaccgcgag 540
gaatatcaga atctaaaaga cttccgaaat gacatccacc tcctgtgtca gaacgccagg 600
acctacaatg aagatggaag catcctgttc caggatgcca acgatattga agtaagtttt 660
tcctctgtca ctttacttgt ttttttgctt tcatag 696

<210> 339
<211> 615
<212> DNA
<213> A.fumigatus

<400> 339
tacttcagag ctacagtcgc atccttccag ccccgtggtg aagactcgtc ggcgggcaat 60
tcggacttct taacagcggc aacaggttct tcaatttctc cctttacctc agatacttcc 120
tcaggaactg cttcctcggt agcagtagct tcggtgggct cgttgatggc cacctctccc 180
ttagcttgct ctccggtggt cgtgatgggt tcttgggtcg attcaaccgt ggccggctct 240
ttagctacag cttcagtttc gggagattcg ctcacaggtt caggaacgac cgtctcagga 300
gccggtgcct ctagcgtctc gggagcagca ggagcttcgc ccttggactt agcagccttt 360
ttgtcgcttg cctcaacctc agactccttt gcgagttccc gggtaacggg gtgttcctca 420
aaccctggct ctttagtctc ggtcactacc gcaggctttt cgctcgactc agcctcatca 480
accgcagaag ttttagcagt accttctgag actactggtt cgctcacttc cgatggtttg 540
ggggccgctt cagcaacaga ctcctgggtg accggcttgt cctcagtcag agtttcagtc 600
gccagatcat cctga 615

<210> 340
<211> 852
<212> DNA
<213> A.fumigatus

<400> 340
gaaaacttcc tgttgaggag gacttcttcc gcaatatccg gaaggcacca acggaaagag 60
tcccattatg ccagaggaag gcgggtaagg aaccgaggca gcgaggaaac gccgtgtcaa 120

actcttcctt gccgtggagc cttcccaaga aagccacagt tgaagagctt gcaaaagaag 180
agtccccaat ttaacaagtg tcagaacctt tcgaagcaga cgttaaggga acatgctcag 240
gatgatctgg cgactgaaac tctgactgag gacaagccgg tcacccagga gtctgttgct 300
gaagcggccc ccaaaccatc ggaagtgagc gaaccagtag tctcagaagg tactgctaaa 360
acttctgcgg ttgatgaggc tgagtcgagc gaaaagcctg cggtagtgac cgagactaaa 420
gagccagggt ttgaggaaca ccccgttacc cgggaactcg caaaggagtc tgaggttgag 480
gcaagcgaca aaaaggctgc taagtccaag ggcgaagctc ctgctgctcc cgagacgcta 540
gaggcaccgg ctcctgagac ggtcgttcct gaacctgtga gcgaatctcc cgaaactgaa 600
gctgtagcta aagagccggc cacggttgaa tcgacccaag aacccatcac gaccaccgga 660
gagcaagcta agggagaggt ggccatcaac gagcccaccg aagctactgc taccgaggaa 720
gcagttcctg aggaagtatc tgaggtaaag ggagaaattg aagaacctgt tgccgctgtt 780
aagaagtccg aattgcccgc cgacgagtct tcaccacggg gctggaagga tgcgactgta 840
gctctgaagt aa 852

<210> 341
<211> 738
<212> DNA
<213> A.fumigatus

<400> 341
agcggtcaag cggtgcgcat ggctatttcc atgaatctag gcacactcgc aggcatgagt 60
cactctgacg agctgcggca agggaaagct gttatcctcg gctgcttcgt cgtcgattct 120
ttactttcct ttcgaatagc acggagacct tgcatgcacc ctcgagatct gactggtgtc 180
gggttgctgg aagaagacgg gctggaagaa tggaattcgt gggctgacgt tctgccctcc 240
acaggaacag ctcggggaag gacacctcga cgcggacccc ttcttactct tagctgcttc 300
aaccggttgg tggagctggc tagtgttttg aacagaattg ctcgtgacgc agtcggtctg 360
cctaatgttc atacgtttgc gcaacaattg gtgctcgaac tgaaacaatg ggacgatcgc 420
ctgccccttg gatgccgtct cattgggcct gagagtatct atcctgagcg ccactcgtct 480
gtactccctc atcagagcta tcttgggttg acgtatgttg ctacactatt atggttgtat 540
ttgcgtatcg ttccccagga gctcgatctg catcgctcgc agcggcctgc catcgagggc 600
gcgaagaagc tattattccg cgccctgcct atgattaccc aacatctgga aaatttccct 660
acgtgcaccc ttccccctat ctttgatttt cttcacgcac aatcggtctt caccaacggg 720
gcctggaagg atccgcga 738

<210> 342
<211> 321
<212> DNA
<213> A.fumigatus

<400> 342
cctcacatct acaacatgtc cggttacaac ggccgccgtg cgcccaactt ctctcaatac 60
ctcgaggatt tgaatgccat tccctcgccg tacgaccagg ccttgcagca gcaacagaga 120
caagatactt tcaacctcga tgctgaactc tcattgttca caaataccga gttcttcgat 180
ttcgacaatc tcggagacct caacctgcct tcgtttgatg ccgtgaatga agacagtgca 240
aagacaacgg accagcagca tggaggacct gctgcccaca atcccgatat ggagtttctg 300
gatcttctag ggggtgagtg a 321

<210> 343
<211> 747
<212> DNA
<213> A.fumigatus

<400> 343
cgtcggcctc agcaagaacc tctcgctcat tatcggaggc tgcgtacaaa tcatgttcgt 60
catcggcagc ttcttcccta ccttcttcgt ggaccgtgtc ggccgtcggg tccccatgat 120
gtggggctcc tttggcttag ggctctgtat gatgatggta tccattctcc tgagcttcaa 180

gggaaaggca aacgagcatg caacgtcctc agcctccgtt gcgttcttct ttctctacat 240
gctcatcttc ggcgcatctg tcaactgcat cccttgggtc tacgtgccgg agatcctgcc 300
tcttcacgcc agagcgaaag gaaccgccgt ggggatttct tcgaactgga tctgggtgag 360
ttgagtgtct tgccttttga gcgtcggttg ctgatcatct gcgtgcagaa tttcttcgtt 420
gtcatgatca cacccatcat catcaaccgg ctgcagtgga aggcttactt gatattcatg 480
tgcacgaact ttgccttcgt gccgttggta tatttctgct atcctgaaac agccaatttg 540
acgctggagg agatcgatta tctcttcacc aatccacaga aaacagccgt caaaatttcg 600
aatgaacttc acaaggaggg aaagaggcat gggcatacaa gccttgctca catcaatgca 660
cggggacgcg atagatcagt gattgaagac actcaggaga aggctcctgc cattcaagct 720
cctggcgaac atcttgagaa tgtttag 747

<210> 344
<211> 468
<212> DNA
<213> A.fumigatus

<400> 344
gacggcatca atcttgtagt gtatggagtg cttgcgaaac tgttatctcg tcccgtcact 60
gacaaagacc gtagctactt catacccaca gttctcaaca gtaacgtcgg cctcagcaag 120
aacctctcgc tcattatcgg aggctgcgta caaatcatgt tcgtcatcgg cagcttcttc 180
cctaccttct tcgtggaccg tgtcggccgt cgggtcccca tgatgtgggg ctcctttggc 240
ttagggctct gtatgatgat ggtatccatt ctcctgagct tcaagggaaa ggcaaacgag 300
catgcaacgt cctcagcctc cgttgcgttc ttctttctct acatgctcat cttcggcgca 360
tctgtcaact gcatcccttg ggtctacgtg ccggagatcc tgcctcttca cgccagagcg 420
aaaggaaccg ccgtggggat ttcttcgaac tggatctggg tgagttga 468

<210> 345
<211> 201
<212> DNA
<213> A.fumigatus

<400> 345
cgaacgcgtg acctttcagc tcccgtggtg gacacccaaa atatgcacat tgcaaaccaa 60
gactggtttg tcggaattgt cgctattgca tatgactctg taaatggact tggagagtgc 120
tcagcgctgc ccctggtaat tgaagataac actggttcca gttacgtaca aagtgccaga 180
tggggttacg aactacgcta a 201

<210> 346
<211> 1080
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1029)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 346
ttgggcttcc tgtccgtaat cgaagttctg ctccagcaga atgggcagcc gacacgcacc 60
attgttctcg ccttcgggtt tgacgagaag tctcatggct tcctcggcgc tggttcgctt 120
tcctctgctc taaaaaagaa gtacggcccc gacagcttcg agtttatcct agacgagggc 180
ggcatgggtc tcgaatctct gggcgatgac gtggtatacg cgcttcctgg cgtaggagag 240
aaaggcagca tcgatattgt gctctcgctc gacgtcgcgg gcggacacag ctccatccca 300
ccccctcaca cagggatcgg catcatggcc gagatcatct acgagctcga gcgacaggcc 360
ctcttcgtcc ctgtactgac agatgaccac ccctcccgcc gcatgctcga atgccaggct 420
cgctactccc ctaaccacgt cgaaccctgg cttgcctccg gccttcagtc atccgaccac 480

gtcgcgctag ccgagaaact ggcatcctcc cgcggcgacg ccttccgata catcctgcaa 540
acctcgcagg ccgctgacat cttcaacggc ggcatcaagg caaacgctct acccgagaag 600
atctccgcgc tcgtcaacta ccgcatcgcc ctccatcaaa ccccagaact catcaagcag 660
cgcgccattg acatcatcgc ccccatcgct gacaagcaca atttgttatg gaccgccttt 720
ccagaaacga ccgccgccac tgcccataag ccagctgtca ataatcaact cactttgacg 780
accctcagca cgcctcttgt ccctgctccc gtgagtccta ccaatatcga caccgacgcc 840
gtctgggctc gcttcgctgg tgtcgcgcgc acctccttcg agtccgtgcc cagcttgaag 900
ggcaagacag tggtggtcag cggcgacatc atgacgggaa ataccgacac taggttttac 960
tgggccctgt cgcgaaacat ctaccgctgg agtccgtctc gcaggggccg tagcctgaac 1020
atccatacng tggacgagcg agtagctatt gatgtacatc tcgaggcaat ggttctataa 1080

<210> 347
<211> 183
<212> DNA
<213> A.fumigatus

<400> 347
caggaccaaa gctggctcac ggccttcatc tttgccgcgc aagactacaa cgagcagaac 60
tgctacttca actctccccc gttcgtcggc tgcagcaaga aaaaggctaa tgaggcattc 120
attttctggg ctttgtatgt tcctcgcctc ttggttgcct catggttttt cccacagtgg 180
tag 183

<210> 348
<211> 213
<212> DNA
<213> A.fumigatus

<400> 348
gactgctcct atttatccat cgatataaaa cccatatcac aactccccgt tctctatacc 60
ggaaaagata caactacagc cgtcacaatg agcgatttcc caaccgcatt ccgcgcagcc 120
caaatcctag gcttgacagg cgccgcctgg ctctcaggtc tttccatcgc cccactctca 180
aacatcacct accaaacact gacactgata tga 213

<210> 349
<211> 297
<212> DNA
<213> A.fumigatus

<400> 349
gatcaaggca tcgcagcgac agccgcaacc accgccccaa ccaaggggaa cgcgcccctc 60
acagcattca acacgcccca tctctccata agcgactcga cctccgtcct cgtcgcctca 120
ctgtcatcct tagaccccac tttcgcctcc agcgaccgat tcgtccccat cataaacgca 180
aacgtatacg gaacaatccc cacggtcaac aaccccgaca cagcatacag gaaactactg 240
ttcggcgctg caaccagcga caacgccgtt ccatcacgga cagaccagga caggtag 297

<210> 350
<211> 1275
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (120),(241),(330),(1013)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 350

tggtggtggg ccaagttcac cacaagcaaa agcccaagct ttttggttgg aagcactggt 60
accggaagct ctttgttcgg ggcccaactc caactgttca acccaagggt tcttggctcn 120
ttcggcaaca atcagggcca ccaacacaag attggcctcg gcacgagtag cttttccggt 180
acaacccagc aggcacagcc actgcacagc aagcaggcac agcagcctgt tcctgaagcc 240
ntgcaggctt ctttgctcga tggcaatccg tatggcaacc agtccatctt ctctggcttg 300
ccagctccta gtgctccaag ccctggcccn ctggccacac cactctcttc gtcgatcaag 360
caaaagcagc gcactccact gcccgtctac aagattactc caactgcggc gaatcgtctt 420
atcacacccc caaagcgcca gggatacgga ttttcctact ccacttacgg atcaccctcc 480
agcactacta gcacccctac tggcctgggc agcagtctct tgggcggcag ccttcgcgga 540
agtgttggtg gcagccttgg acggggtagc tttagcaaga gcttttcaac aagcaacctg 600
cgcaagacct tcgacccgga gaccgacagt gtcttgtccc ccggtgcact ttctggtact 660
tctcgcttgt ccagtggaag cctgaagcgc ttgaccatcg atcggtcctt gcgcaacgac 720
ctgtttgcac gtcccgcaag cacccccgca gctcctatca ctaatggcga ggatgctact 780
cagacgaccg acaaactgaa gaagcgagtg agcttcgatg cttcatcttc aaaggctcct 840
gaagcaacca ctggtggaga aatcgttcct gttgcatccg agagcccgga acctaccccg 900
gaggagcttg gattcttgcg ctcgattcgc aagcctggaa gcgtcaacgg aattaacggc 960
gtaaaggcgt ctactgacat ggttgcccgt ccggagatgg aatctgttcg tancaaagat 1020
ctgcccgttg ttccagaaga ctctgagcat gctgccaccg accgctccaa caaaattccc 1080
ttcgttcctg gcagtgaccc caaacctggc gagtattgga tgaaaccatc ccgtgccgag 1140
ctcagtaaga tgagccctga agacctcaag catgttgttg gcttcactgt tggccgtcaa 1200
cgttgtggtc aggtaacttt tgatgagcct gtcgatctga cgaccatcga actggaccag 1260
attttccgtg ggctt 1275

<210> 351
<211> 465
<212> DNA
<213> A.fumigatus

<400> 351
cttcagaacc tcgacgccct ctcgaacctt cgcatcatct ccatccagtc gaatcgtctg 60
accagcatta ctggcctctc ctcgctcaag aacctcgaag agctctacct atctcataac 120
gccatcaccg acctcagtgg actcgagtcc aatacctcgt tgcgcgtcct ggatttctcc 180
aacaataaaa tttcgaagct ggaacacatc tcccatctga agaacctgga agagctgtgg 240
gcatccaaca acgaattgtc gagtttcgag gaggtggagc gcgagttgag ggataaagag 300
aagctgcaga cggtgtattt tgaagggaac ccattgcaaa ccaaggggcc ggcggtgtat 360
cgaaacaagg tgcggttggc actgccgcaa atcatgcaga ttgatgcgag taagttcagt 420
ttcttcgctg gtcgggctct cggatgggtt gctgacgata tctag 465

<210> 352
<211> 198
<212> DNA
<213> A.fumigatus

<400> 352
atgtccctct gggagcggat ccacacgctg ggcggcctca ccgccgaact cagggaaaca 60
gactggtcca cgggtgagca gcagttacac tgtctgaggc aggtgctgct ccgcaaaagc 120
cggaccctgt tgctggacga ggccaccagc aggtttggtg cccatcccat ctctggtcgt 180
tttagacttg actgctga 198

<210> 353
<211> 285
<212> DNA
<213> A.fumigatus

<400> 353
gttccttgtc tctacatttt ttttgtcgtc agtgtatgcc tgacacttgc catagtcaac 60

acattctggt gttatttgat gcctattctg ggtgcttaca ttgccgacga gttctgggga 120
cggctgaaga cgattcaggt ttccatcgcc ttcgcgatgg ttggacacat aattctgatt 180
atttccgcct tgccatctgt tatcgctcat ccacatggcg ctctgggatg cttcgccgtc 240
ggtttggtca tctttggaat tggtgtcgga ggtttcaagt actga 285

<210> 354
<211> 480
<212> DNA
<213> A.fumigatus

<400> 354
cacgtatgca acaggtcaaa cattgcccct ctgatagctg aacagcacaa ggaaacaagg 60
tccttcatca aggtgatacc caagacaggc gagcgtgtca ttgtggaccc tgctcagacg 120
atcactcgga ttttcctgta cttctatttc atgattaacg tcggcgcctt ggtaggctca 180
atcgccatgg tgtatgccga gaaatacgtg ggattctggc ttgcatttct tctcccaacc 240
atcatgtttg cgttctgccc tgctgtgatc tttgcatgcc gcaacaagta cgaggtcaca 300
cccgctaccg gctcggtttc cgcgaaagca ttcaagctct gggcttttgc tctccaaggc 360
cgctggtcgt ggaatccagt gcgattgtta gtgctcctca ctccatgtcg agttttcttc 420
gtactgactc cccttgtagc gtgcggaatt gccagtctcc tgacttctgg gagagagtga 480

<210> 355
<211> 201
<212> DNA
<213> A.fumigatus

<400> 355
catttgatga ccaatgggtc gatgaagtac gcagagctgt caaagcgtgt gctgtctttc 60
tctggtatcc tgtctactgt atgtgtccat atcacaaacg tcgtgaacaa aacttaccga 120
gatgataggg ttggcctatg ggcagatgac caacaatctg acctcgcagg cagccacaat 180
gcagctgaac ggtgtcccta a 201

<210> 356
<211> 483
<212> DNA
<213> A.fumigatus

<400> 356
cgtcggcgcc ttggtaggct caatcgccat ggtgtatgcc gagaaatacg tgggattctg 60
gcttgcattt cttctcccaa ccatcatgtt tgcgttctgc cctgctgtga tctttgcatg 120
ccgcaacaag tacgaggtca cacccgctac cggctcggtt tccgcgaaag cattcaagct 180
ctgggctttt gctctccaag gccgctggtc gtggaatcca gtgcgattgt tagtgctcct 240
cactccatgt cgagttttct tcgtactgac tccccttgta gcgtgcggaa ttgccagtct 300
cctgacttct gggagagagt gaagcccagc agggttcaaa ataagccaga gtggatgaca 360
tttgatgacc aatgggtcga tgaagtacgc agagctgtca aagcgtgtgc tgtctttctc 420
tggtatcctg tctactgtat gtgtccatat cacaaacgtc gtgaacaaaa cttaccgaga 480
tga 483

<210> 357
<211> 282
<212> DNA
<213> A.fumigatus

<400> 357
cgtcacgcag atttcccatg ggcgtccctg ggggatgccc tggtagttga tgtcgggggа 60
ggcgttggcg gatttcccct gcaactgagc aaggtatacc cccagctgcg gttcattgtg 120
caggaccgtg gtccggtcgt caagcagggg ctggagaagg tctggccccg ggagaaccct 180

gaggccttgc atcagggacg agtgcagttc gtcgagcata gcttcttcga tacaaacccc 240
actgagggcg ccgacattta ctttctgcga tatgtcctgt aa 282

<210> 358
<211> 183
<212> DNA
<213> A.fumigatus

<400> 358
caagtccttt catgctcatg caagttgatc aatgtaacgc aatcactcct ccttcactcc 60
tccatgcaga tcactccgca tcctgtggcg gatctagacc agtcctatcc agctcctacc 120
aagaaggaaa tgcacttttg cttcctggtt cggtcgccgt ctcgccgtcc aacaggggtc 180
tga 183

<210> 359
<211> 849
<212> DNA
<213> A.fumigatus

<400> 359
gagcgtggta ccttccagcc gcggggtgaa gaccctcctc tactcgatta tcctagctct 60
cgttctcggc tggcagaatt ggggcatgac ggaatacgct gccatcattg ggggcccagt 120
cctgtacgaa aatgtcccaa gatcacctcg agtccttgta tcacgtctga ctggaacagg 180
atctacgttg tccgagccgt agctagcaag ttcttcgact accgtatcaa caagacccag 240
cgacacctcg aagatctaca gaaacagcgg gacgagacca tcgagaagct caaggtcgca 300
acaaaatata actcgactca acagctgctg gaaaagtatg gcgcggagtc acccaagccc 360
tcgcgtccca agggtggtga cgagaaacgc aagacggacg ccaaacgcaa gcagccttct 420
accccgcaac aacccgtcat gagaaccggg cttcctcccc caccgaccgc caacatccga 480
cgaccaactc cggctcaatc gccagtgtct tcgcccggcc agcctcagtc tccgccatca 540
tacctcatcc aagaacagcc acaactgcag aactcacacc caccagtccc tcctgcactt 600
gacgagcccg gatttgcacc caacgcgttt ccaagcgccc cgcagtatgt cgagcactcc 660
tcactggtac gaccgtttgc tagacatcct actcggcgag gacgagaccc cccccatgaa 720
ccggatggcg ttgatatgcg ccacctgccg actcgtcaac ggggaagccc cgccgggggt 780
caagaccctg ggattacctg ggccgctggc ggtgttggca cctgccgggg catgggaagg 840
gggaaatag 849

<210> 360
<211> 201
<212> DNA
<213> A.fumigatus

<400> 360
agcgtggtac cttccagccg cggggtgaag accctcctct actcgattat cctagctctc 60
gttctcggct ggcagaattg gggcatgacg gaatacgctg ccatcattgg gggcccagtc 120
ctgtacgaaa atgtcccaag atcacctcga gtccttgtat cacgtctgac tggaacagga 180
tctacgttgt ccgagccgta g 201

<210> 361
<211> 741
<212> DNA
<213> A.fumigatus

<400> 361
atagcgcgtg attttcgact cctgtcggac acttatgaaa gagacccaag gaggtcacag 60
gaggaattga agctggatta catcgtcacg ggttcatggt cgttgaaggc agcacaggag 120
gctacccgtc tggtgggtgc caaacatgtg aacattgcgc tggatgccag aaccgcgagc 180

aacgggaagt ttggcaagat ccctgcagag gatacctgga ctctctcgcc cagtaagaac 240
tcggcgtttg tttacttctg tgacaatgag acggtggacg gtgtagaatt ccccaacttc 300
cccaagatcc tggagtcgga cgaccgaatc gtcgtcgcag acatgagctc caacttcctc 360
agccgaaatg ttgatgttaa aaagtattct gtgatcttcg tacgtattct tccctgtgac 420
gaagtttggt tttcaagtct ccgagctaat ggacagcagg gtggtgccca aaagaacatt 480
ggtatcgctg gtatttccat cgtcatcatc agaaaatcgc tcttgcctcc ccagacccct 540
acaccggcac cggctcttct acatcggttg aacattggcg gattaccggg gagcgtcgta 600
ctcgactacg cgaccatcgc gaagaataac tccctgtaca acacactccc catcttcaac 660
ctgtggattg ccggccaggt catggccgaa ctcgtccaga cttatggtgt gcagaagatc 720
agcggtcacc aacagatctc c 741

<210> 362
<211> 456
<212> DNA
<213> A.fumigatus

<400> 362
gtctcggcgt tggtgggcca ccaggagacc aacagtgtct acttaggtgg atacttcaaa 60
tacgagaaca catcgaacgc ggtcgcttgg attggaggtg aaggctggaa gacactgccc 120
ttcgatgggc tcaatgggcc ggtggaatcc atcctgaaga atgacgatgg ccatgtaatt 180
ttcgctggat cattcgatgg cgtcggcaac tccacgtcgt ccaagaagaa ggagcagatt 240
gtcaacctcc aggatgccac aattacctcc gatgccgtct catcgagatc aggctacagt 300
gacccgagga atgttatctg ccaaaccagt ggcgcggatg gcgaaggcaa gacatggttg 360
cttgctgata cctcgccagg cttctggcga gcagatatgg gttttcaata cagaccaact 420
aaactccgtc tgtacaatac ccatttcgag ggctga 456

<210> 363
<211> 261
<212> DNA
<213> A.fumigatus

<400> 363
ggcaccaaaa ccttcctgtt cagaaggctt ccggacaatg gcatcatgaa tttcacatac 60
acagatcctg acactggcta cgacgttcat tgcgactcta cttgcccccc gtccgaccgc 120
gcagacgaga aatatcgtga cttcgaattt gtgaatgtcg tgggcatgag cgggtttcat 180
attgaaatct ccgactggta tggatctggt gccggattga atggaattga gctttttcag 240
gaaagtgaga taaatccata a 261

<210> 364
<211> 735
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (500),(554)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 364
ccgttccgtg gcttactgaa accgaacatg acagacttct tcgcctatgc cgtggatgcc 60
tttaacgagc cgacatgtgc aagcatcaaa tatccttcca aagcaactcg gacgggctct 120
tggtcgacaa cagagtccgg gcagagttca tccaagtacc taacggctca tgtcaccgat 180
tccactgcag acagcgcttc cgtggtcttt gagcccgaca tcaatcagtc cggaaactat 240
agtattcttc tgtacactcc tgggtgcatt caagatggaa cctgtggctc acgcggtgtc 300
gtcaacgtga cagccactgt tacaacggat tccgaccagc atattcagac tgttatccac 360
caaaccaatc tctacgaaaa gtacgataac atctacactg gccatgtcga tgccagcgat 420

agttcttttc gtccgcaggt gaagctgact acggtggccg gccaaggaga catcactgtg 480
gtagcctcga gggtcgagtn taagctcacg aatgcagcaa gcaattcgac aagtggagac 540
ttgaacggac tctntgaata tgatcccgct tccaaggata caagcgagaa tctgacacaa 600
tctgtcgtga atgcagcggg gctacaactt gactctcgtg catctgtgaa gactttggcc 660
aagcatgaca atagaatcta tgctggaaga aaattctcaa aattcctcaa ttcacaatat 720
caggtttttc cgtga 735

<210> 365
<211> 624
<212> DNA
<213> A.fumigatus

<400> 365
gaaggccttg cccatcttac tgcgattcct ggattactcc tccacgtcaa ctcttggaat 60
attggtgcgc ctaacttctt tgtgagtctc agaatcatgc ctcggaatat aatccaaggc 120
ggaggcagca tcctccgata ccttcatcgc agcaatgcct tgattcgtcc ctctcgcgtg 180
gcaattgcca atggctttat ccggcgcatt tgtgtctcta tgaactctca gctcgtgagc 240
ccaaccatga aaacatttcg gccttcagtc attctatcgc ggcctttgat caattccttt 300
gcgacgacaa tcactcccga tgacgagacc gagacaacaa agtcgacagg atccaagact 360
ggcaagaaga acaccaaaaa gcggagctcg aaagccgcga ctaaagctaa gccgaagccc 420
cgcaagaagt tgacagacaa gcagaaagaa gccaagaaag ctgagaagat gaaggaactg 480
gtcaagcagc tcaagaagac agcgctggaa cctcccaaga aactgataga gaatccctgg 540
aatctcacca tcgcgacggt ggccaaaggg cttcaggctc gcggcgtcaa cggaacagac 600
ttcatcatgc aatgttccca actt 624

<210> 366
<211> 546
<212> DNA
<213> A.fumigatus

<400> 366
tcacacatta aaacgctgat aactctagct tcgaataatt tggttgcttc tctcaaggca 60
gagctggaag cacagaagaa gcttggccaa caaagccgag cgctccagaa acaattgaag 120
gagcgggatg cggaggtcgc tgaattgaaa tcccaagtct cggaggcgaa gaaacaactg 180
acttcggctc aatcggaagt caaagcctta cagaccaagc tggcagctgc ccgtaatact 240
actgcgagtc tcgaaaacgc tgccgcgaaa gttccgggaa gcgcaatcaa aaacaacagg 300
gcgaaccgcg cagctgatgc tgaggcagct caagctgctc atctctcgca gttgaaggag 360
gagctgtaca gtgacctcac tggtcttgtc attctcgatg tgaagaagag ggaatcggat 420
cacctgtatg actgcctcca gactggcgtc aatggaagta agttctattt cgaaaaggga 480
ggcttgcaag atgtgtttct gacacctcgg cagctcttca cttcaaattg gctgtcccaa 540
caataa 546

<210> 367
<211> 765
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (5)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 367
atagnagggc tctcactagg cggctacttc cgtggggttg aagaccccgg tgcccctggc 60
ggattgttag aaattcggtc ccttcagtca agcgtcgtcc ggaccaattg catggactgc 120
cttgaccgga cgaatgtggt gcagagtatg cttgggcgat gggctgtgtc gcggcagctc 180

atggacgcag gagtccttcg tccaggagaa gcagctaacg atgatcggga gtttgagaac 240
ctgtttcgta acatttgggc tgataatgcc gatgttgtct cgaaagccta ttccggcaca 300
ggagccctca agacggactt cacgcgcact ggtcaaagaa cccgggctgg aatggtgcag 360
gatctgtgta attctattac ccgctatatc cgcaacaact tcctggacgg ccccagacaa 420
gatgggtttg atgtgttctt gggcacctat ctgcctcctg attctgctct tggcaacatc 480
cagctcttcg ttgaccgcag gccgctaatc attcagtcaa tcccttacat tcttgctgca 540
ggcctgttca tgatctttgt ttccattttc acgaagcggt tgccggactc tgccgtctgg 600
cctatccgca tattcatttt tttctgggta gttgtttcgg cctggtgtgc acgcttcatc 660
ttcgcacatg gcatgctcta tgtaagtttc acctttacac cattgtttgc atggtcgttc 720
gtccctaaca ttccgggtct cttaggtcca cctggcccaa actga 765

<210> 368
<211> 189
<212> DNA
<213> A.fumigatus

<400> 368
tggtccacgc tcaacacaga gaacggagaa ttcataatcg tccttgattc gcaagatcgt 60
gagaatgaag gcgacctgat cattgccgca gagtcgatca cagactcgca gatggcgttc 120
ctagtccgct ttacgaggtt ggtacaccct ttcctgcact caatcccgga ctctcagagc 180
gcttcttga 189

<210> 369
<211> 690
<212> DNA
<213> A.fumigatus

<400> 369
gaaactggtg cggccgcagg acaaggtgct gtgaatccag acactctcaa atcacccacg 60
tcgccctccg ttcataaagt caccaaatat cctcattcac cggtacctcc tcggccgctg 120
attccagctc gtctaccttc gtacactgcc gctccccgaa actcacgcgc ccctcaaaag 180
acactggtcc tggacttaga tgagactctt attcactccc tagccaaagg cggtcgcatg 240
tccagcggcc acatggttga agtcaagctt gctactccca tgactactgc tctaactccg 300
ggtgggccac cgactacatt agggccgcaa catcccattc tctactacgt tcataaacgg 360
ccgaattgcg acgacttttt acgaaaagta tgcaaatggt ataagctggt tattttcacc 420
gccagcgtcc aggaatatgc ggatcctgtc atcgactggc tcgagcagga acgcaagtac 480
ttccacgcac ggtattaccg ccagcattgc acgttccgca atggcgcgta tatcaaggac 540
ctcagttctg tggagcctga cctgagcaaa gttatgattc tggacaatag tcccatgagc 600
taccttttc acgaaggtac gtcggaggaa tccatattta acgtctgtct tttgtttgtt 660
tcatattctg acttaactgt gtctagataa 690

<210> 370
<211> 210
<212> DNA
<213> A.fumigatus

<400> 370
ccaggatggt ctcgatctct tgcccttgtg aaacgcccgc ctcggccttc caaagtggtg 60
ggccttccac agtgctggga ttacaggcgt gagccaccgc gcccggccaa gcggagggat 120
ttcttctcac ttctcagagg tcaagccatg gggaatctca ccttaccttg gtcgcaagcc 180
agcagacagt tttcttgtgg taaacccttaa 210

<210> 371
<211> 192
<212> DNA
<213> A.fumigatus

<400> 371
ggagtgcagt ggcgcgatct tggctcactg caagctccgc ctcacaggtt cacgccattg 60
tcctgcctca gcctcccgag tagctgggac gacaggcacc cgccaccatg cctggctaat 120
ttttttgtat ttttagtagc aacagggttt taccatgtta gccaggatgg tctcgatctc 180
ttgcccttgt ga 192

<210> 372
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (81)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 372
ctaccacctt caggggaagg cttgggttcc agccagattt tgttttctta ttttttgag 60
acagagtctc actctgtcac ncaggctgga gtgttgtggc atactctcag ctcactgcaa 120
cctccaccac ctgggcttaa gcgattctcc tgcctcagcc tcccgagtag ctgggactac 180
aggcactcac caccatgccc tgctaatttt tgtattttta gtagagacag ggtttcacca 240
tgttga 246

<210> 373
<211> 354
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (80)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 373
taccaccttc aggggaaggc ttgggttcca gccagatttt gttttcttat ttttttgaga 60
cagagtctca ctctgtcacn caggctggag tgttgtggca tactctcagc tcactgcaac 120
ctccaccacc tgggcttaag cgattctcct gcctcagcct cccgagtagc tgggactaca 180
ggcactcacc accatgccct gctaattttt gtatttttag tagagacagg gtttcaccat 240
gttgaccagg ctggtctcaa actcctgacc tcaggtgatc tgcccgccct ggcctcccaa 300
agcgctggga ttacaggcgt gggccaccac gcctggccca tccagatttt ctaa 354

<210> 374
<211> 288
<212> DNA
<213> A.fumigatus

<400> 374
gctctctgcc accatggggc aggtgtggct cctgcatggg tggtgaagtt ttttttaaa 60
aaaacttctc aaaaaataat ttttctcagc caagtgtggt ggcatgtacc tgtagtccca 120
gctactcggg aggctgaggc acaaaaatca cttgaacccc gggaggcgga ggttgcagtg 180
agccaagatc gtgccactgc attccagcct gggctacaga ataagactcc atctcaaaaa 240
aaaaaaaaaa agtcctcttc cttcagccgg attacgattt ataaataa 288

<210> 375
<211> 231

<212> DNA
<213> A.fumigatus

<400> 375
acccaggggc cctcatcctc atcctggtgc cctgtgacct tgggagaggc tgtggttcct 60
cccttacaaa gtgaagagaa gggccctgat gtggctaagc tgtttttatgg ttttaaaagt 120
cccattggac tcctgcctcc atcatggacc tatgatgttt ggacctcaag atacatccag 180
ctccgttttg ttttttttt tgacatagtt atttgcatat ttaaagttta g 231

<210> 376
<211> 192
<212> DNA
<213> A.fumigatus

<400> 376
tttttgtgcc tcagcctccc gagtagctgg gactacaggt acatgccacc acacttggct 60
gagaaaaatt atttttgag aagtttttt aaaaaaaaac ttcaccaccc atgcaggagc 120
cacacctgcc ccatggtggc agagagccta catgaaccca ggggccctca tcctcatcct 180
ggtgccctgt ga 192

<210> 377
<211> 249
<212> DNA
<213> A.fumigatus

<400> 377
ttgaccgacc catcagcaca atgtcctcat ccagattacc acatatccct gctctacgta 60
gacaacaact cctgcttgaa ttgtgagtac gactgcctct ccttgaacgg tggtggcaat 120
gttacgtttg ctaagtgcgt catgcagtgc cagcttgaaa catgcaaccc cctcgggaat 180
ctacatgtcc atcacgccag gcgatcctac cctttgtctt caccaccggg ctggaaagac 240
aagcgctgg 249

<210> 378
<211> 642
<212> DNA
<213> A.fumigatus

<400> 378
tcgctcaaac tggcgactac ggcgacctac accatgccgg cgaccgtgct gccggccatc 60
gacgatccag atactagacc gccagcagat atggtggaca gtgatcagga tgcagaaggg 120
gaagacgaaa ccgatctcta tgagatggac cagcagctac agaatgcagt tcatcgggca 180
tactctgggg agaacaccga cggggatcag gatgccgatt acgacgaaga cgaagatgca 240
gagggtgaac cggatacgga gctgaacatc aacgggggta atgacgatgc agaaccggtt 300
ggtgccgtca agatgcctga cacagccggc tctcttgaca acgatgatgt cgcttctgcg 360
gctgccgatg cagaagatga tccagccttt gagaatttaa gtgacaccga tacacccgct 420
gcctctccaa gcagttcaga atcggaggcc gatgaggagt gggaggctga gagtaataac 480
cgggaggacg cagaggtgga taccactgtc cgcagcaatt gcatgtgggt tcattattct 540
ccatatgccc accctgttgt gatcttgtct gatgctgaga ttggagaggt cgcttgtctt 600
cacctcgaag agccgatccg gattattaac ccccccccaa aa 642

<210> 379
<211> 195
<212> DNA
<213> A.fumigatus

<400> 379

aactatgcaa agattttcca agcgacactg gatcttacac aactctataa caacgttcac 60
gatgtactct actccgggat gcggaccagc aatcaaatga tgctcatggg cgactacgtg 120
aaatacgtgg acgatttccg cctggcgatt ctccgctgga agtcccgctg gggctcgctt 180
tcctgtaggg catga 195

<210> 380
<211> 396
<212> DNA
<213> A.fumigatus

<400> 380
ccccatatgc ttacgctgtc agccacttac gcatttgcag gttccacacc gatgcgagcc 60
accatgcagt tgtcgtacga gtatctgaga ctctatacga acgcatttgc atttcaagct 120
gccatctccc agtcacttgt ctcaaaacat aaaaacaaca atcagtctca aagggagcat 180
ttgcgcgcaa ccttcaacaa tgtggcatca atgcaggatg cgcgcttcat ttacgagtct 240
gtcgatgcgg cgaaggcgta cctgaccatt cttgttgacg aagtgcatcc ggaaaagcac 300
ttgcatttta tgcctttgag gttttatctg tatggaatct atgcagcggt cttcttatat 360
aaggtgagtc ggtcgtttaa aatgattcga gtatga 396

<210> 381
<211> 228
<212> DNA
<213> A.fumigatus

<400> 381
caaatgaaac ctttccagcg ggccgtcttg tataaaaata ttaagttcgc tggcgtttgc 60
tatacagatc tacacactat gaaatgtgac tggccgctca agcccaaatg gcctcttgtt 120
ggcggccatg aaggggcagg gatggttatt acagttataa tcctcagtgt ggttaggcta 180
catctaatct gcatactaaa taaagaacag tctgcctctg cccaatga 228

<210> 382
<211> 654
<212> DNA
<213> A.fumigatus

<400> 382
tccttcgacc ggcgttgtga agaccaccag acccgcgccg agactcgcgc gcgaggaccc 60
ctagccgcca tgtgctgggt caacgtgctc aacgcgatcg acctgttgtt gtcgagccgg 120
gtctcgttcg acgagcagat cgcgtggatg acgaaatgcg gtcaaagcaa gactgcagac 180
agtagctact ggagaagact cgtctggtcc atcgaaatgg ccttcaacta ccgtcgcatc 240
aacaccccgt ggcagatccg cgctgtcccc gcgttcgaca ggcacgaccc gggctttgtc 300
ccggacaagg tgaagttcct gcgtcagtgt gcgctcagag tatgcgggtc gctgtttgtg 360
gtgcatttct gcaccctcga tctgagggat gctcacctgg cgggaattct gtctgagatc 420
tccgactcca agaaggtgtt actccctacg tgggggggaat ggactgcgcg ccgcgcgatc 480
ctccagatgc tattcaccat ttcttttggg ctcctcacgc gagcggctat actgggaacg 540
tatagcctcc tcgcgatgtt cttcgtcgcg gtgggcgcgt acgagcccgt cgactggccg 600
ccggttttcg gcaacgtgag cgatatgtac tcgttgacgc gggtttgggg gtga 654

<210> 383
<211> 363
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (39),(67),(89),(90),(102),(132),(201),(211)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 383
catctcggaa caataatgag cgcccaactt acatgtgcng ccagtgaacc gcaacaaaag 60
gtccatncgc cttttctttg ccataagtnn cgagtcgaga tnttacacaa gctgggccaa 120
gagtgcgacg tnctagtcga gaactacctt tccagcaccc tgaagaagta cggtcttgat 180
tacgaaacgc tacgatctat ncatccaaaa ngatatatgc aagtattaca gggtacggcc 240
aaaacagggc atacaacaac cgggctgggt acgatgtctt ggcccaaact taaaataact 300
catgcccatc actggaagca aaaaccgcga atctttcaag ttcgggtaac tgtaacggat 360
tga 363

<210> 384
<211> 855
<212> DNA
<213> A.fumigatus

<400> 384
ccgagatcaa tagcttataa ttcccagcga ccaatcgtcg agaaacatgc atcgtttgcc 60
ttctatcatc ccgccaccga ggccattgca ggggttgtca gtgatatccc ggtcaagttc 120
ctcatggcaa tagcgttcaa catcattctc tatttcctga gtggcctacg tcgcgaaccg 180
tctcaattct tcatttattt ccttattacg ttcatcatta tgttcgtcat gagtgctgtt 240
ttccggacca tggccgcaat caccagaact gtttcccagg ccatgacact ggctggtgtc 300
ctgattctga tgctagtaat ttacaccgga ttcgttgttc cagtaaatta tatgcaccca 360
tggttcaagt ggatccacta tctgaatcct atattttatg cttttgagat cctgatagcc 420
aatgagtttc atgggcggga gtttacctgt tcacagttta tccctgccta tcccaatctg 480
cccggcgact ccttcgtctg ctcgtcaaga ggtgctgttg ctggtcgtcg gactgttagt 540
ggggatgcat acatcgaagc gtcatacagc tacagctatt cacatgtctg gagaaacttt 600
ggtattctga tagcattctt gattggcttc atggtcatct acttcgtcgc aaccgaactg 660
aattccgcca cgaccagctc agcggaggtt cttgtcttcc gtcgaggcca tgagcctgcc 720
cacttgaaaa atggacatga gcctggtgcg gatgaagagg ccggcgctgg caagacggtg 780
gtttcttcct ccgctgaaga aaacaagcaa gaccaaggta ttgtcttcac cacggggctg 840
gaaagtgcgc gccat 855

<210> 385
<211> 687
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (162),(191)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 385
gtagccgggg tacttcgcac ccagtccaga atattttctg tatatttcca tacataccaa 60
cttgattctc catctacctc ctcaattggc attctcaagg ttctatctta catttctcag 120
actattgatc caattgaatc actttttcaa ccacaatggc cnccatcgcc gtccaagaag 180
cgacccccac naccctgtac aacaactacc accccacaac caacccatcc cggcttgatt 240
caagttaacc gctccccaaa agccttcggc agcagcgcct cctcgcttgt ctcgctccca 300
gcaggcgccg tatttgccaa aatcaccacc gccacccccc cgaagaaggc ttacacatcc 360
gtccagacgg gccgggacag ccacatcgag ctgaactcgg acctggtgtt ttgcaaccac 420
tcatgcgacc cgagtttgaa ctttgatatg gataagatgg aggtgcgggt tgtggacgac 480
cggccgctga aggtcgggga tgcattgacg ttcttttatc ccagttcgga gtgggagatg 540
gatcaggcgt tcaactgtaa ctgcgggagt accaagtgta aggggtggat ctctggggcg 600
aagacgatgg ggagagagga gttggagggt tactggttga atccgcacat cgaggagatg 660
ttgagggaga gggacgggca gttgtga 687

<210> 386
<211> 192
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (75)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 386
tatgaatggg gaaaaaatac acttatggca ttcatcaccc ttttcccact tgcatttgga 60
cgtgggatgg ttcanggcat tacagttagc gcacctggca acgctcaaca atttgcccgt 120
gtttgtgtct gcaccattat tatgtttagc gtcttcttga ttaaaaggga ccgtagctca 180
catcttacct ga 192

<210> 387
<211> 204
<212> DNA
<213> A.fumigatus

<400> 387
agtcaggttg gactcatctt ccctcgttta caatatagtc cttcgacgaa gaacagtggc 60
agctcggagc cgagcggtat tgcccatctc cgtcagtccg accgcccttc ctttgcacgg 120
ccatcaacat ccaccgatct tgcctccgac cccatgaaca tcgacgactt catagttcct 180
atcgagtcgc ccgccgagtc ttca 204

<210> 388
<211> 324
<212> DNA
<213> A.fumigatus

<400> 388
ccctgccacg acgggataat gtcggggatg agccatggag gagcgcctaa agcagcgcga 60
ccgactccaa ccgctgtctc tgcctcctct ggttacgaca tcgccgatgc tgaccgatca 120
tcgtcttctc atttccacca cacctcccaa ttatccgacg atttctcccg tggttctccc 180
atcagtccac ctgactccgc tcatgtccag gacggtctgc tccaggactc tcttttccc 240
gagtggagga acgccgctcc ccgagctggg gtagaaagtc cagatgagat gcatcggaaa 300
gatcctctgg ctactcatat atga 324

<210> 389
<211> 324
<212> DNA
<213> A.fumigatus

<400> 389
aagctctatt ctagaacgaa agctcagtta cccaatcagg agcgcatgga aaatctcacg 60
tggcgcatga tggctatgag cttgaaacgc aaggaacgcg aaaggcttca gcagaataag 120
cggtatgtct atgataattc aggtgcttgg acaatcgctt tttttgaagt caggttggac 180
tcatcttccc tcgtttacaa tatagtcctt cgacgaagaa cagtggcagc tcggagccga 240
gcggtattgc ccatctccgt cagtccgacc gcccttcctt tgcacggcca tcaacatcca 300
ccgatcttgc ctccgacccc atga 324

<210> 390
<211> 507

<212> DNA
<213> A.fumigatus

<400> 390
gaacctaggg attcatttat gatcggtgta cctcgctttc agcttcggag gctaaacttc 60
tctggaagct atatctacgg tccaagagcg acttttatct ctgacattca aaccaggtgg 120
gctgtacagt tttctcacag ccaaagacac aacatgacga ccgttgtcaa cctccctagg 180
gatccaaata ccctgagcaa ttacaataat tgggtgtcta ctcatattac tgcaaatttc 240
gacatccttt ttgatcagag aaagcttgct ggaaatgtga tccatcggtt ccgttctacc 300
actgatggcg agtctaatca tatcatcctg gacaccaacc atctcgatat tggtagtgtg 360
aaagtcaacg gacagccatc cgagtgggag tatcttcccc gactggaacc gtacggcacc 420
cctctcaaga tcaagctcga tcaaggtgtg aaactcaacg aaactattga gtcttcacca 480
cggggctgga aggagccgcg ccatcat 507

<210> 391
<211> 777
<212> DNA
<213> A.fumigatus

<400> 391
aatgctcccc atcggcgatt cccacaccag cgttcttcgg tggccgaaat catctccttc 60
gaggcatctt gggtcaggaa ctttactctc cacgtgcctg gtaatttcta ctacaaccac 120
ggtgctcagt cggtgcagaa tgtggatttc tgcaacgtga cggtgaccta cagccatcca 180
ggctacgacg accgaattac ggtcgaaacc tggctgccac gccactggaa ccaacgcctg 240
caagccaccg gtggaggggg atggcgtgcg ggtcgcttcg tcctgtccca gtttttcatg 300
ggaggtgcca ttggagaggg atacgcgacg acaaccactg atgccggcct cggggataca 360
atgccagacg catgggctct gaagagcact gggaatgtca acctcgaata cctgcataat 420
ctgggctata gatccctcaa cgacgaagcg atcatcgcca aggacctggt gcgcagcttc 480
tacggcatcc cgccggcgta ttcttactgg agtggctgtt cgcagggcgg acgccagggt 540
ctcatgcttg cgcagcggta cccgcacgcc tatgatggta ttgtggcctc tgcaccggcg 600
cagtcgtggc ccgagtttgt gactgcggtt tactatccgc tcctggcgcc gctgtgggcc 660
ggggagccgt ctcccctcag ctgtgaactg gatttccgga ctgcggaagc tgttaaaccc 720
tgcgaatccc cagaagggat tgtggatggg atcatttccg gacccgaaca actgtga 777

<210> 392
<211> 204
<212> DNA
<213> A.fumigatus

<400> 392
cccatttgcg cgttcctggg gctgggtcat tcggaactgt cacgatttgt tccaatctac 60
caatcactgg agggaaaagc gcaacgaaag accgctattt tgtataacat gaccagaatg 120
gctcatcatg gtattccgcc tacggggatc ttgtgctatg acctgtcact gtcagatgct 180
gacatcatta gctcacagca ttag 204

<210> 393
<211> 222
<212> DNA
<213> A.fumigatus

<400> 393
ttggcgcatg ggtggaagtc gcctggtggg cggttacatg atgcggagca tgcgttggag 60
aaggggcagg tggttgcgtt catggctgaa gggaaggagc atgcgtgtat ggttgggccg 120
ttgaaggtcg gaacggagga gatgaaggag aagaagaagg gtgtggttat ggacgagggg 180
cattatctgg gcgacggctt gtggaagatg cattgggatt ga 222

<210> 394
<211> 318
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (183),(255)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 394
aagtgcggtg atgctgttga ccgcataccc acggctatcg ctggcaatca tactcccct 60
tcagccaatc tatcaaattc attgataatg acaagctgcc catgtctccc ttcgcaatcc 120
atgcccaatt atattgctga tcctgagatg gctgttccac acgactgtgt gtttaccgtg 180
ggnctgattg gctggctgcc tgaatccccc gctgagtcgc cgttcgccaa gcttaattcg 240
cgattgggcc tgatnaggag gaacaatatt ttcgctcaat atctgattgg gttatggtac 300
cagccaaacc aagtcttc 318

<210> 395
<211> 1032
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1026),(1027)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 395
ttcaaaaaaa ttgggtgggg ggaacgcgct tcttccgaag aacgaatgcg acaagaagcc 60
attttctcga aaaaatatcg ggcgcgaagg acgacccagg cgaatttctc gaagcggaaa 120
ggcgcaatgg cccgccactt tttggatcct gccggggaac gaaggtcaaa tacagccacg 180
ggcgcgggaa tcggcccgga tctggatatg cggccgtccg gtgtggacaa ggtacccatc 240
attcggacgt tgaatatgct gagcgagaag attatggcga atgtggcgcc ggtggatcgc 300
gacccgtcgg cgcctgtcgg cattgatgac gagacgtaca aagagctgca gttgcgggac 360
ttgcgtgggg acgatgaaca gaacaggatt ctactgaata tccgggatca gagtcggttt 420
ttctcgcagg ccaaagtaac cgaagatgag cagagtcggt tgtttgccaa gcaggaccct 480
gaccagatcc tccgtgatct acgtggccag atcgaccggg acctgccgac cgatgggaca 540
gcgccattgg ggaagctggt ggaaccagag gaactcgaag atgaagacga gcagaaacat 600
gatcagcggg tcggatcgca ggccaacttg cagcgcgcat cgaagcagat ccttgacgcc 660
atccgggacc ggcgcaacca gacggaggcg acatctactg ggggaacgta cggattgtcg 720
gccaatctct atgataggtt gaccctaaca catgcgacaa ccacggagtt ccttcaccaa 780
ttctggcagg cttttctgtc cggaaatccc gaccgtgcgg ctgaggtcgc gtcgcttgtg 840
gaatcgctga accgggccat ggaacgcatc cagtctgtcg caccccacgc agaggctcag 900
cgccaggtgg aagtaaaccg acttaagcag catgcacgag aggtgctaga ggctacgggc 960
aagaagatcg tcttcaccac ggggctgtat gcaccgaggg tggtcatttc gacgtgtgct 1020
caatcnncat tc 1032

<210> 396
<211> 444
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (383),(384),(385),(386),(389),(390)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 396
ttctctagga ctctatccat gcacaacccg aaagaagcag ccgaggagct tcgccgctgc 60
gtagaaaaat acggcttcct cggtgccctt gtaaatgaca cgcagcgagc cgggcccgac 120
ggcgacgaca tgatcttcta tgaccagccc gaatgggaca tcttctggca gacctgcaca 180
gacctcgacg tcccccttta cctacacccg cgcaacccca cgggcacaat ctacgacaag 240
ctctgggccg accgcaagtg gcttgtaggc ccgccgctga gcttcgcgca tggcgtcagc 300
ctgcacgtcc taggcatggt gaccaacggt gtcttcgacc ggcagtcttc accaggggtg 360
gaaagagggt ataaatcttc ttnnnngann aaaaatgtaa ttaatagaaa taaaggtaga 420
aattggtatt atattaaaat ttaa 444

<210> 397
<211> 378
<212> DNA
<213> A.fumigatus

<400> 397
atccccacca gcatcagtca gggtgaagca ccagtttctc acagggatgg tttggaaagg 60
ttgcccttcg aggaaggctt tggggctttc cgcgtttcga agaaaaagac tcgttggtgg 120
gttagtctgt tctctaccga ccccgagact cacgtcaagg aaataaccga catcaccaag 180
atccgtatcc aatacgccga caagcatggc gtcggctacc agattctctc ctacacagca 240
cctggtgtgc aggatatctg ggatgcgaaa gaggcacaag cgttagcggt tgagatcaac 300
gattatattg cggagcagat caaagagtac ccagatcgat ttggagcttt tgcgtacgtc 360
cactcctgct ttctatag 378

<210> 398
<211> 339
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (181)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 398
ttatcatttc aaatcgccca ggataatgcc agaccgtctt tattccacaa cacccagcat 60
aaggtaattt acttcatcgt taaacttggc atttccaatg tgttggaaga atgccatgag 120
gcctttcacg aagatagccc tattgtattt ataaactgcc aacttgatct tcccgaggag 180
nggtgtgaga cctataaaaa taaagagcat tcatgcccaa ccggtacctg ggctgatgaa 240
gcggggatat ctgtgaagga tcacatcaag gacgagcgcg actcgaacct atatcttttg 300
tcattctccg agcgcccttg tctttggtgt tctctctag 339

<210> 399
<211> 219
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(6),(19),(23),(46),(75),(92),(111),(119),(127),(170),(188),(193),(202),(211),(218),(219)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 399
cctttncccc gccccaaana atntataaac ttttgtaaaa atatanattc tttccccggt 60
cccacacact ttttnaacgc cattcttctc anatatcccg ccatttcctt ngcccaccna 120
gcccttnttg cggggtggtt aaaagtgtgg cgccttttta ccgcggccgn ggtgggggcc 180
gggatatntt ccnccgtttc cnaaaccaaa nccgaatnn 219

<210> 400
<211> 207
<212> DNA
<213> A.fumigatus

<400> 400
ggatgcgacg agtctactca gattcatcgc ctctggaaat ctcagcggaa ttcctcactc 60
tgcagatgga tagaacccga aaatagttac agtgtttatg atgccatgaa gaccaacaac 120
gcaagtatgg tggagagcca tctgaaccga cctaccacac cctctgtgat tattggcact 180
ggtgttaaag tacctgtaga agtatga 207

<210> 401
<211> 204
<212> DNA
<213> A.fumigatus

<400> 401
attaccctga cagggttctt atttgtggta atcaacttca tcaccatctt atggtacaac 60
ccagcgttag atcacgattg ccctccatgg gtctatgcca gttgcgccat tgggttgttc 120
ctgtatcaga cattcgatgc agtagacggc atgcaagcgt atggactccc gtcctccttc 180
ccatctgcta gtagactaga ttga 204

<210> 402
<211> 474
<212> DNA
<213> A.fumigatus

<400> 402
atatccgtcg tttacagtaa ccgaccactg ccatcagagc taacatcaac ttcacaacaa 60
cctgctcact ttctcatctc aacagccacc atgcattcga cttcgagttc cgagggaacc 120
agctcacgcc aatccccccc gcaaatccac atcgacgaac tctcctccct gcccctccac 180
gacaccatcc aaagcttggt acacctcctc cccgaactaa ccacttctat cacgccaaca 240
ggcgaacgcc tcgtgacgca ccctacctac gaaggaacag gcaagctcga cgatctgggt 300
gcactctacc tccgcgcggc agatcgctgt acccgcgaac gcgcatcctt caaaacccgt 360
ctcctgcata tatcccttga ttccatgatc gaagcactct acgcatcgag tcaagagcag 420
ctcgataagg ggttggaaga tggaactgtg catctacctc ctgtcttcac cagg 474

<210> 403
<211> 870
<212> DNA
<213> A.fumigatus

<400> 403
agacatacga cagctgcagc cgaagaagcc tgcgctctac tggatggcaa gccaaactcg 60
cagaatgatg ccaacatgat cgttgagctc taccatggac cggttccgtc agcgttgaac 120
ccccagaggc gcaatacgat tgatcacacc gcgactcgaa atatgttggg taatggccac 180
ctcgcgcggt cttctcgttt taacggcaca tttcaaagcc ttgaaaagct agcagcgcca 240
aattcgtccc tgcagtcgaa cggcgacgca ctgacctcga actcagagtc agggtctcgc 300
cttcaaagca tattttctcc ccagtccccg atcggcaatg gcgttcatga ccttccgcgc 360
gttagtggta agtcgatgat cgaccaggat ccggacgaag atacgggtga gctactcaag 420

gatcccgttg gctacgccga gaacggtcat tcttcttcgg ccaccctgcc tcgacgttcg 480
acgaatcctc agtatcccac caaccgattc ggcaacctct ctctgtccac caacatgacc 540
tcgccgcctc tgcacaacta tgcgcctggc ggctcagggc gcatgggggt cccgacgcct 600
tcctccgcct ttcctcaggc aatcaacggt aacactatga tgggaggtca tggataccct 660
tatggtagtc agcatactcc tcgtcatagt cttcccgcgg cgaatccgaa cgacttgaac 720
ccaccctgca ataccctcta tgtgggtaac cttcctccag acacctccga agaggagctg 780
aaggctctct tctccaaaca acgcggatac aagcgcctgt gcttccggaa caagcataac 840
ggccccatgt gtttcgttga attcgacgaa 870

<210> 404
<211> 372
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (202),(283)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 404
ttcccgagaa caacaaccaa gatggccacg acgccgaacc ggccagctca gcgcagcagc 60
tcccagaaga agcgaacaag tttcaacgtg ccattgcggc gtggagaagt tcgtcaccat 120
tttagaatct tttctatttt gaagctcaaa gttgctgata tctctacttt attaggcatt 180
gacttgacaa cgactgtcgc anaactagac gctacggctt cggatattgt cgctcaacag 240
cgagatgcac ttatacagag aaaggagcta gcccagaaga canaggattt tcgaaaatta 300
gacgatgctt ccaagcttgc ggaatacaag ggtctcctga aatggttggg tccctggcct 360
ttccggccgg gg 372

<210> 405
<211> 783
<212> DNA
<213> A.fumigatus

<400> 405
aagatcccaa agttcaagtc ctcccaaacg tgcctgagaa tcttcttgga taccaagttt 60
tccgagaagg tgcggacccc aagcgtcatg gaggcctacg ccaaagaaaa ttgggtacag 120
cacctccatt cagtccagcc cgaagagacc tcactcgagg acaaaaagac aatcgccagc 180
atgctggccc ggatgttcgg tacggaagag aacatggcca gatggttggg aatgagaagt 240
tgggtctcga caagcgacaa tctgaaggct gttcagcgct ggtggaatga tgccgagatt 300
gtcgagtcgc ttgctgtcaa ggaggccgaa tttgtccttt ccgtcaagga gaagcctgta 360
gagaccttcc gacccatcgc ggagctttgc accaagaaat ggttagccga agacgactgg 420
gtccccacag ccccggcggc tatgattatc agctatctca aatgtcagag agggatcgac 480
gaggatttta tggaacattt tgcactgact gccgccgagg tcgtcgaggc tgccgaatgg 540
ggccagatcg agaagacatc tcgctggtac caaagggtcg ccgtggtgct gcgctacacc 600
ggccacatag acgaggctct ggactacttt acgaaggcac tcgccctaga tccagacaac 660
tggattgcca aagcgggcat ggccatagca cacctgagca ggaaagaatg ggcaacggcc 720
cttgtgctcg acgaggaaat agaggcgatt ctgtcttcac cacgggggct ggaaggacca 780
cgc 783

<210> 406
<211> 255
<212> DNA
<213> A.fumigatus

<400> 406
ctgtctggga ttgtacattg tgccagcagc acaggagaat gcacagggcc aaaatgccac 60

aaggtctcct gcactggtcc caactgtcaa aacggagtgt gcacgggcga gggctgtgaa 120
tcagaagacg acgactgcga ggctaaagag gctgaagtct gcactgaaac tgtctactcg 180
agtattatca cgcccgcgtc aacatataca accgagattt acgtcttcac cacgaggctg 240
gaaggacacg cgctc 255

<210> 407
<211> 210
<212> DNA
<213> A.fumigatus

<400> 407
aactcggccg gtcagtatta cactctcctc cactttcagt atacctgcaa gttgttaacc 60
gcggagcagt catgcctacg atgccaaaag tcaaaccgca cctgcgcagg ctaccaagaa 120
caagccagca agaccctaat cttccagcgg aactacaccc aaagcgcaag tgccaatgtc 180
ttcaccacgg ggctggaagg ggccgttcga 210

<210> 408
<211> 624
<212> DNA
<213> A.fumigatus

<400> 408
acgcgtgtcc ttctagcccc ggcgttaaga cccggtatct cccacgtcat tctcttgaat 60
aaatttactc agagcccggt gctgcctctg ggtccgacaa tcaactactt gagcacgatt 120
cgactcagga cactggacgg gcgttacgtc gccgtggaca gcaacccccc cgggaacaca 180
aatctcatcc tgctgaccct ggtgaacgcg ccaacggaca atactcgttt cctgatccgg 240
cactatcgga gggactcgtc ttgggaatgg ccgttcagtg gcaatctaga cgccgactcc 300
tgcaacgcca atggaaatgt ccgccttgtt catgtcgaca gcagagttgg tgacgatact 360
gtggtgtcct gtgcgaagaa ctccggaggc ttcatgtact ggggtgtggg ctggggcccg 420
gcaaacgact gggagacgtt ccttccatac gatcctgcta acccccgaag cagcgctaag 480
attcttgacg gtagtgtcat tgtccttcgc acactttggc atatgtactg gaaggcaggc 540
aacgatgaga acctctatac taggcttaat gcgagcaccg gagcgatcga agatgccaca 600
cggtttgtgg taaaaaaggc ctga 624

<210> 409
<211> 630
<212> DNA
<213> A.fumigatus

<400> 409
cgtgagtcca acctaggtca ctacatgaag ctcccgcctc gcgtgacctt cgcgggacag 60
ttggttgcct gtttgtggtc ctcgattgtc caaatctgca ctatgaactg ggcacttgga 120
gcaattaata acgtctgcga cccagaacag gccaaccact acacctgtcc caacggccgc 180
gtattcttta atgcttccat catttggggt gtcatcggcc cctcccgcat gttttcacct 240
ggtcagatat attccggcct catgtggttc tggctcgcag gtgccatttt gcccgttgtc 300
atctacctcg gtgctcgcta ctggcctaag agtcccatcc ggttcctcag cgcgcccgtc 360
attttcggtg gcgcgggact gattcccccc gcgacgccac tgaactacct cagctggggt 420
attgtaggtc ttgtgtttaa cagacacatc cgcaaccgtt tccgcggatg gtggatgcac 480
tacacctacg ttttgtcagc aggattggac gtcggcctgg cgctgtgcac catcctgatc 540
ttcctcacac tccaattgac gaacacggat ttcccaagct gctgggtctt cacctcggga 600
ctggccggta ccgcgccaat ttctacccca 630

<210> 410
<211> 522
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (139),(259),(276)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 410
tttcttcctg tcccaccagg ttggcttttg acctatggtt tgagttttgc taccatcatc 60
ggtggtgctc attcatactg gggttctccc atggaaaaga agctgtgggc cggttttcgc 120
aagttcggta agaggaagna aaacgtccac gcgcgtctca tgtcccggtt caagaccgtc 180
ccattgtggt ggtatgccgt gctttcactg gtcatgatcg gaatgggtct gggtgttgtc 240
ctgggctatc caactcatnt gagctggtgg gccttnttcg tctcgttgat tattgccgct 300
gtgtggtttg tgcccattgg tcttgtacag gcgacgacca acattcagat cggactgaac 360
gtcattacgg aattcatcat cggttacatg caaccgggac gccctatggc catgatgctg 420
ttcaagacct tcgggtacat caccatgtcg cagggcctgt atttctgcca ggacatgaaa 480
ctgggtatgt cacttatcaa cacagaagag tcgtcgaatt ag 522

<210> 411
<211> 693
<212> DNA
<213> A.fumigatus

<400> 411
agacaagaaa cggtgtctgg gaagccggac ataatatctt ctcaacagcc caagtcgaca 60
ctgacgccca aggaaagcat cttcacatac actaacccct ttgagcaact ggctgctgca 120
tcgccacgca aggcctctcc tcagatcaag tctcggagtg ctagccccgc tgtcgagctc 180
acccagcgcc agaagatcaa cgtaactgca accgcggatg ttgctcctgt gtctcagcca 240
gcagcttcgt ctgccgtgca acgcccgtca tcgccaatcc ttgacgcaga gcagcgcgag 300
gctgttaacc aggtagttgg caagctggtg gatcagatag ttggccgcga cgttgctgaa 360
gtacgtgaca agacagccaa ggaagaggag tcattgcctg tacggacgga taaggatgag 420
ggcactaaag cggccatttc ctctgtcact agccatcttc gtgatacaac tgctgaggcc 480
aagcaggctg caaagattga agcagcggcc gcccaagacc ccgcggcagg gagtcctgca 540
gctattaacg aaactactaa tggcgaaagt ggcgaggccc ttgcagacag ttgggagagc 600
gccgaggaca gcgctgcgaa ggaagaagag cgcgttgttc ccgtgtacaa ctttcctctg 660
aagccgttca tttccatctc cctcaagggc aac 693

<210> 412
<211> 555
<212> DNA
<213> A.fumigatus

<400> 412
tttctgatcc cgaataacgc ctgtaaagtt ggcgtgcggg agaacgtgag caagatcgac 60
ttttacggca tcattgcctc atccattggg atcatctttt tgcttatacc catatcaggt 120
ggtggctcct acttccagtg gaattctgca atggtgatca gtatgcttgt tattggagcg 180
tgctcattgg tcgcgtttgt cttcatcgag tggaaagtgg cctccctgcc gatgcttcca 240
ggtgcgttac aactcgtgcc gtttgttaat tcaagaggag ctgacctgtg gacagtggta 300
ttcttcaaga acaaagtctt atgtgcttta ttcttacaga gctttctcct tggcgctgtg 360
tatcaatcgt atctctatta tctgccattg tactatcaaa acgcacgagg gtggtctccc 420
atagtttctg ccgctatgac tgctcccatg gtcggttgcc aggcacttgc ttccattgca 480
tctgggcaat atatttctcg aaccaaacgg tacggagagg tgatatgggc tggtttcggc 540
ctgtggactc tgtga 555

<210> 413
<211> 720
<212> DNA

<213> A.fumigatus

<400> 413
agaaccttcg aggagattat ctacgacaag gccatcttta agacacaact tgccgttcgg 60
gttgtggaca aaaagaaccc tattcgctgg gcgtctaaga agctcaacga gtacctcttc 120
cccgctaaac cggtaaaaca gcatgacatc tccgaatttg tggggaaaga tcctcatgtg 180
cttgacaaaa taatcaaaga agacaacggc gaggaacggg caatccggaa gatcgctctc 240
accgagacct tccagagaga agacaatgac aagctcacag aagaggaaag gaaggatgtc 300
cagcaagagc tcgacgaaga acggcttagg cgtactgatc ccgaggcata ccagcgactg 360
atatttgaga gacagaggaa ggaagagttc gtgagagatg ggggaagacg cagagaggcg 420
gagagactag caataatggt gcccatgtct cagcctcaag ggcaaagctg gcctggcaga 480
cccgtcctgc ccattcacta cgcggccgcg cagcaagccc gtgtgccatc ttctcaagtg 540
cctccaccgt ctacagctcc ctctaggcct cgtgactggg ggcaccgtgt tcatacttat 600
gacgatggcc cattcactca tgcacgtaac aggcccacct cgccacgctc tcagtccacg 660
tcgaatgcag agctggccgt gtctcaaaat ggggcggttg atggcactca gcctggtctt 720

<210> 414
<211> 309
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (116)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 414
gaaagtgtac tcattctcaa cccgtgcagt tgcttgggct ttgatattcc gggtgcgaat 60
cgcgtcgtga tattcgacct ctcattcaat cctatctgga aagacaaggt tgttgngcgt 120
gcatatcgtc taggtcagca aaagccggta tttgtttacc gcttcatggt tgaagaacct 180
tcgaggagat tatctacgac aaggccatct ttaagacaca acttgccgtt cgggttgtgg 240
acaaaaagaa ccctattcgc tgggcgtcta agaagctcaa cgagtacctc ttccccgcta 300
aaccggtaa 309

<210> 415
<211> 609
<212> DNA
<213> A.fumigatus

<400> 415
agacgcctga tgtttggcgg caaagccatc ttgtatgatg gaagtccctt cctaccagac 60
gccaagttcc tcatcgagct actgagcaag tataaagtta cccatttcgg cacatcgccg 120
cgctatctcc atgagctccg gaagaacaac ataagaccga aagacattgc agatctcagg 180
gcacttcgca tcgtcacgag caccggcatg gtcctttcgg aatccttgtt tgaatggttc 240
tacgacgagg gtttcccatc tcagacccaa ttggcgaata tctccggcgg caccgatctc 300
gccgcctgct ttggcttgga gaatccgctt actcctctat atgtgggcgg gtgccaaggt 360
ccagctctgg gtattcctat cgcagtattc gatcaagcgg atgagggtgc taccgccgtc 420
aaaggcactg ccgtgccaga tggtgtgcca ggagagttgg tagccaccgc agcatttcca 480
accatgccag tcaaattctt gggcgacgac ggcccgcaaa agtactttga ctcatacttt 540
gcccggtttg acagtaagtc tcctactctc cccaccctcc caatgcatct accatctact 600
aacctatga 609

<210> 416
<211> 951
<212> DNA
<213> A.fumigatus

<400> 416
ttcccatgcc gagagacgct ttggccggat ccttcgcccc ctgtggagaa gaccactacg 60
ccggcacctg cgcctgcgcc tgtcccagct cccgctcccg cccccgccga agaacaacag 120
cctgccgctg agccagcagc aggacataaa gcagctgaat ctgtccctac tcctgcctcc 180
gtacccactt ctgctccagc tcccgctgct gctaacgccc ctgctcctgt cccggtccct 240
gttcctgtac cgattcccgt cgaaaaagga cccgaacctg tccttcctaa gcagcctgct 300
gaagtcccgg ttactccttc cacttctcac atcactcctc ccaaggatgg tctgaccaag 360
acaaacctcg aacaaatacc cgatgtttca cctcccgctc ccacagccac tgcggctagc 420
acagtgggca gcacacttga tgccaacagc atcgcagctg cctctacccc cgctcgtcaa 480
cctgctcaag ctgccttccc ttcgagtgca ttcaagtccg gcgctcgggc tcctggatca 540
cagcgtcgtg tcatggaaca gcaagaagct gtagtcatgc ctggaaacca cgccgttgat 600
cgtgctgctg tccagtttgg cagcatgggt ctgaacggcg atgctgccga tgttgatatt 660
gacgagaaca gagaaaacgc tgaaacacgc gctcagcccc ctcaacactc tcccgtcgcc 720
cctcgtgcct ctctacctcc ttccactcag gcccagccgt ccaccgaggc tcctcctgtt 780
tcccgtccag ctcccggact tcctcctgtc ccacaagtct ccgctgccga ttcctctttc 840
accgattttg cccgctacac agaggcccag aagccttacg acccgttctc tcagcaggtc 900
agccagcccc agccccaagt gcaggagcca tttgcaaacc aggccccccgt t 951

<210> 417
<211> 750
<212> DNA
<213> A.fumigatus

<400> 417
aaacgctacg tgcgttactt ctctggtcat accgacaaag tcacctgctt ggcactatct 60
cctggcagcg acgcctttat ctcatgctcg aaagatgaca ccgttgccct ctgggatctt 120
agctcgagga atgcgcaggg gaagttgaaa ttggccacgc cttatctggt tgctttcgat 180
ccctctgctt ccgtgatcgc tattgcttca caatctacct cgtcagtcct tctatacgat 240
tttcgcaact atgacaaggc tccgttttcc accttcgatc tcgcgccgta cgaagaaaga 300
tacactcctt ctacacgtgg aagagcgtgg actcgccttg aattctcaaa tgatggaaaa 360
cacttgatgg ttgggacgga ttttcatggg catttcattc tcgacgcctt tgaaggcaat 420
atcaaggcgt tcctgctcgg caagaacgga tcacctggca gagcagctcc tgtctcaaca 480
actggaaaac cacttggtca gggggatgca tgctttaccc cggacggacg atatgttctg 540
ggcggctccg gcgaccagtc agatgttctt gtatgggata tgcagcagac accggatgcc 600
aattccctcc tgcagccaat gaccaaacta ccaaaccgtg gtcgcaccgc cgtactagaa 660
tacaacccac ggtacaacat gcttgctacg gccgataagg aggtggtctt ttggcttcca 720
aaaaaaaatt cgcggtccgg tgaaaaataa 750

<210> 418
<211> 180
<212> DNA
<213> A.fumigatus

<400> 418
aacaattcat ggcacccctg ggggcaacgg ggcccgtatt cggtacccca attaacacaa 60
gtgggtaaaa ccattatctt gggaacagac tgccaggcct ggaacaaatg ggagacacag 120
ccaccagtta ttattgttaa gggccccaca gccaaaacag atccgcaatg catagactaa 180

<210> 419
<211> 798
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (774),(775)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 419
aaccttaagc gcggatccgg ctattcccgt ggtcaatacg tggagcctag ttcggggaaa 60
gtccttgtct ggtcctcata tcggaagaac cagtatggag ggacatccgg cggcttgacc 120
cagacagcta tgtgggatcc gaacactggc gaggtcacgc agcgtgaggt ttccgatact 180
gagcacgata tgttttgttc tggcatttca atggatatga acgggcgggt tattgttacc 240
ggtggaaacg atgactctat aaccagtatt tacgattctt tttccgacac gtggcatggg 300
ggagcaatga tgaatatcga gcgtgggtat caggcgtcaa ccattctttc ggatggaaat 360
atgtttgtca ttgggggttc ctggaatggt ccgcagctca ggaataagaa cagcgaagtc 420
tataatgtag ttgcagacac ctggaccgaa cttcccaacg ccggctcaag ttatatgctg 480
accaatgata acctcggccc ttaccaccag gacaaccatg gctggatatt tggctggaag 540
aatctctcga tctttcaagc aggtccaagt cgtcagatgc actggtattc tgcccacggc 600
caaggaagtg tggcagatgc agggaaacga aacagcgaca atgaccagat gtgtggcaat 660
gcggttatgt ttgatgcagc caagggaaag atcctcacat ttggagggtc cccgaattac 720
gaggattcca cggctacaaa caatgcatct ctcattatat tcgtcttcac cacnnggggc 780
tcgaagctct cgcgctaa 798

<210> 420
<211> 717
<212> DNA
<213> A.fumigatus

<400> 420
agtgcatgcg tattcgttgg tcacagacag acactcggtc atttcaaatg ggcggcggcc 60
aacgtcacca gactgacgtg tcccctgtcc ctccacgctg aaattttcaa cgacaacgcc 120
aaaaaaaaag gtcatcgact gagaccgagc catcgcgttg aactttgtct cctccgtaca 180
catactggca agtggcaagt gacaactgtc gacaatctcg acatgggtgt aattcccccc 240
gaagagccaa tcgatctctt cagaggctgg ccaaacccgg ccctgttgcc cacctccgcc 300
ttggcccagg catccgccac tgtcctgtcc acgccgtcca ttcggacccc agccctgctg 360
tatgggcctg atgatggcta tctgcccttg cgaaagagtg ttgctgaatg gctgacccac 420
ttttacaaac cccgcgatcc ggttgggttc gatcggatct gcattactgg cggtgccagc 480
cagaatctgg catgtatttt ccaagtcttc accgatccaa gttataccag acatgtctgg 540
atggtagcgc ctgcatatca cctggcgtcc cggatggtag acgatgccgg cttcgcaggt 600
cgtgtcagag ccgttccgca ggatgacgcg gggcttgatc ttgactatct ccgtcgggag 660
atggaggcgg ccgagcggaa agctaatgaa gagcagagat tcgaaccggt acggtag 717

<210> 421
<211> 612
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (48)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 421
cccccaagga aagcgaactt tgaacttgtt tttcgaaccg aggggcgntt gtccgccgtc 60
cgggttctcc taatgaactt cagccgcaat tacgtcggac tccaaagtat aacggtgacg 120
gtcgagaata tcagcacgcg gtatccgcag ctcgcggcgc tgattgggcg agggggtttt 180
tcgtcgcttg ggctgcggaa tggggtgatg acgcaacggg gaccgcggga ttcagcgcgt 240
gtgtatgtct ttttcaccgc ggcggatggg ttcactggcg aggggaagcg agcggctagc 300
gtaacgaagg agcagctact cagtgacgag gccctcctgg ggaggtttgg tgactctgtg 360
aaggagttgg tggctgttgg tgttgcgtgc gacaaaaccg cggacctgcc tgaggggtc 420

gttgaggtca aaccgctgta tatgttgcct gttggcgctg cgtgggcgca taagccgggt 480
gtgactatcg tcggggacgc cgcgcatctg atgtgtccgt gggctgggga gggagttaat 540
ctcgccatgt gtgatgcgct gatgcttgcg aaggttattg tcaaggtatg ggagaaatgg 600
accggatgtt ag 612

<210> 422
<211> 621
<212> DNA
<213> A.fumigatus

<400> 422
accaacgacg gaaacacgat gctgaaagac atgagcgtga tgcaccctgc ggccagaatg 60
cttgtcgatc tgagtgctgc tcaggatgtc gaagctggtg atggaacaac gtccgtggtc 120
gtgatcgctg gtagcttgct cggtgccgcc gagcgcctgt tgggcaaggg tattcatccc 180
accatcatct cggaatcttt ccagcgagcc gctgctgctg cggtggaaat tctccagaat 240
atgtctcgcc cgatcaacct gatggaccgt gctactctcc tgcaagccgc ttctacatcg 300
ctatcctcca agatcgtatc gcaacactct ggccttcttg gccctatggc ggtggattcg 360
gtgctcaagg ttatcaatcc taaaacggca gagaacgtgg atctgagaaa tatccgaatt 420
gtgaagaagg tcggcggtac aattgaggac agtgaaatgg ttgacggcct cgtgttgaac 480
cagcccgtca tcaagagcag cggcggcccc acaagaatcg agaaggcccg gatagggctg 540
attcaattcc agctcagtcc tcccaagcct gatgtacgtg tctctacctc aaaagcacga 600
tacaggtata caggttgcta a 621

<210> 423
<211> 207
<212> DNA
<213> A.fumigatus

<400> 423
gtttcgggcg gaaatgacaa ccaattcatg gttggggacc agctgaatgg gacaccgttt 60
attcgtttct cggaccatac cgcagccgtg aaggccatcg cctggtcacc ccatcaacac 120
cttctcctcg cctcaggtgg aggcacggcg gaccggacca tcaaattttg gaacactgct 180
attggttcac tgatcaaggg aagttga 207

<210> 424
<211> 312
<212> DNA
<213> A.fumigatus

<400> 424
tcaagggaag ttgatacggg tagccaggtg tgtaacctgg catggtcgaa gaactcggac 60
gaaatcatca gtacacacgg gtacagtcag aaccagattg taatctggaa atacccgcgc 120
atggagcaga ttgtatcgct gaccggccac actttccgtg ttctctacct tgcgatgagc 180
cccgatggac agaccgtcgt tactggagct ggtgacgaaa cgttgagatt ctggaagatt 240
ttcaataaga ggtcaggaag agaacatgga cgagagagcg gcaagcttgc ggaatggggt 300
acgattcggt ag 312

<210> 425
<211> 213
<212> DNA
<213> A.fumigatus

<400> 425
ccagggtctt caggtcgtgc tattattgga gctggtgtcg gtatagtgaa agttgcggct 60
cctgtattga tccaagagat ttcccatcct cggcttcgac ctattcttgg ctcctgctac 120
caaacgttcg catacatcgg aatcttcttc gccgctatta tgacttgtga ctcacccaga 180

ccaacccgaa gtacgttctc agctaaccca tga 213

<210> 426
<211> 450
<212> DNA
<213> A.fumigatus

<400> 426
agacggccaa agatctgggc ggagacgctg aatgggacca tcgtaggggg ggagaaaggc 60
gggtggtacc atgacgacgt gtggaacagg aagtacctga ggggcttcaa gtgggcggat 120
cggatggagc aggtgcagcg ggagagttcg gagagggagg cgaagaggcg gattgagaac 180
acaaggcccc ggaaggaaga taaggtgttc ttgcaaggtg tggagcaggg taagtttctg 240
caggggatcc agaagaagaa tgaggagaag aaaaagaaga aaggggagac ggggaccggt 300
gaggggtctg ctgatgcagc tgcgaatgcg tctgaactca aggtccgcag gttgttcaaa 360
cagaacgagg tcaagatggg acgggataag gtcaaggata tttctgcgtt ggaagatgat 420
gcgaagcgtg tgctgagcaa aatcttctaa 450

<210> 427
<211> 501
<212> DNA
<213> A.fumigatus

<400> 427
ggaattctgc atgttagcga ctctgtactc ggtaatcatc tcaccggcac aaacttcaac 60
gatcccaact ttgaagccat cgaagccagc agtcaatata gctgtactat tccggacgtt 120
gtactggtca agaagcacta tgctcgcaag aagaacaaga agactcgcaa ctggcgactt 180
aagcgcatgg ctcgcgagta tgaggaggag gctctgcagc agcagggagc gtcaatcagt 240
cgcaaacaag agcaggagcg tgaacgcatg gaggccgact ttgaaatgtt cctgcgggat 300
gtcgaagaag accaagaatt gcgtagtacc ctgcaactat acaagaacaa gaatgctcgg 360
ccgaataatc gtatgcaagt cgaaggcggt gctggtggca tggagatgga tgaggatgag 420
agcgatgacg atgcgcctaa gattagcatg gaagagttgc tcgacgactt tgacgagctg 480
aacatggatg acgaggaatg a 501

<210> 428
<211> 930
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(61),(66),(67),(69),(70),(74),(75),(77),(81),(84),(85),(87),(88),(92),(97),(100
),(101),(104),(105),(106),(109),(111),(113),(114),(115),(121),(124),(127),(129)
,(130),(131),(140),(141),(144),(150),(151),(157),(162),(163),(165),(167),(168),
(173),(191),(254),(290),(303),(370),(497),(614),(620),(628),(689),(756),(758),(
781),(839),(840),(856),(858)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 428
accaaaaggc agaagaataa ggcaaagagg aatcaaaaag taatgctcac aagcggattt 60
naaccnntnn cctnntnatt nctnntnntg cnctctnccn nctnnnctnt ncnnnctctc 120
nctnctntnn nctttttttn nttnctttcn nttcccnttt cnntntnnaa ttncccttcc 180
tttccccctt nttctccctt ttctttcttt cttttttttt tccctctttt cccctttctt 240
ctttcccctc tttnttttct tttccccttt ctctttttct ccctccttcn tttcctttc 300
ccncccttc tctctctccc tcctttcttt ttctctctct ctctcttccc tctcctttt 360
tttcttcctn ttccttcttt ttctcccttt ctcctcttcc ctttttttct tctttttctt 420

ctccttcttt ttccctcccc cccctctttt tccctctttc cttccctttc ccctcctctc 480
ttcctctttt ctctctnttc ttttttttte cttctttcct tttctcttcc cctcttttct 540
ccccttttte tctcccccct ttttccttte ccccttttct tttctccctt tccttcccct 600
tcctttttct ttcntttctn ccccctcnct cttcttcttt cttcttcttc ttttcttttt 660
tctcctcttt ttcttttctc ttccccttnc tcctttctct ttttcttctt cctttttttt 720
ctcttctccc ttttttttte ttttttteee tcttcncnct cttttttctcc cttttttcct 780
nttctttctt tctctttctt ctcttctttc ctccctttte ttcttctttt cttctcttnn 840
cttccttcct cttttncntt ctctctcctt ttcctctctt cctcctctcc tttcctcccc 900
ttttcttttt cctcctcttt ttctctcccc 930

<210> 429
<211> 888
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(18),(23),(24),(26),(27),(31),(32),(34),(38),(41),(42),(44),(45),(49),(54),(57)
,(58),(61),(62),(63),(66),(68),(70),(71),(72),(78),(81),(84),(86),(87),(88),(97
),(98),(101),(107),(108),(114),(119),(120),(122),(124),(125),(130),(148),(211),
(247),(260),(327),(454),(571),(577),(585),(646),(713),(715),(738),(796),(797),(
813),(815)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 429
tgctcacaag cggatttnaa ccnntnncct nntnattnct nntnntgcnc tctnccnnct 60
nnnctntncn nnctctcnct nctntnnnct ttttttnntt nctttcnntt cccntttcnn 120
tntnnaattn cccttccttt ccccccttntt ctccctttte tttctttctt ttttttttcc 180
ctcttttccc ctttcttctt tcccctcttt nttttctttt ccccttttctc ttttttttccc 240
tccttcnttt cctttttccn ccctttctct ctctccctcc tttctttttc tctctctctc 300
tcttccctct cctttttttt cttcctnttc cttctttttc tcccttttctc ctcttccctt 360
ttttttcttct ttttcttctc cttctttttc cctcccccccc ctctttttcc ctctttcctt 420
cccttttccc tcctctcttc ctctttttctc tctnttcttt ttttttcctt ctttcctttt 480
ctcttccccct cttttctccc cttttttctct ccccctttt tcctttttccc cttttctttt 540
ctccctttcc ttccccttcc ttttttctttc nttttctnccc cctcnctctt cttctttctt 600
cttcttcttt tctttttttct cctcttttttc ttttctcttc cccttnctcc tttctctttt 660
tcttcttcct ttttttttctc ttctcccttt tttttttttt ttttccctct tcncnctctt 720
tttctcccct ttttcctntt ctttctttct ctttcttctc ttctttcctc cctttttttc 780
ttcttttctt ctcttnnctt ccttcctctt ttncnttctc tctccttttc ctctcttcct 840
cctctccttt cctccctttt tctttttcct cctcttttte tctccccc 888

<210> 430
<211> 909
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(41),(46),(47),(49),(50),(54),(55),(57),(61),(64),(65),(67),(68),(72),(77),(80)
,(81),(84),(85),(86),(89),(91),(93),(94),(95),(101),(104),(107),(109),(110),(11
1),(120),(121),(124),(130),(131),(137),(142),(143),(145),(147),(148),(153),(171
),(234),(270),(283),(350),(477),(594),(600),(608),(669),(736),(738),(761),(819)
,(820),(836),(838)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 430
ggcaaagagg aatcaaaaag taatgctcac aagcggattt naaccnntnn cctnntnatt 60
nctnntnntg cnctctnccn nctnnnctnt ncnnnctctc nctnctntnn nctttttttn 120
nttnctttcn nttcccnttt cnntntnnaa ttncccttcc tttccccctt nttctccctt 180
ttctttcttt ctttttttt tccctctttt ccccttttctt ctttcccctc tttnttttct 240
tttccccttt ctctttttt ccctccttcn tttccttttc ccncccttc tctctctccc 300
tcctttcttt ttctctctct ctctcttccc tctccttttt tttcttcctn ttccttcttt 360
ttctcccttt ctcctcttcc ctttttttct tcttttttctt ctccttcttt ttccctcccc 420
cccctctttt tccctctttc cttccctttc ccctcctctc ttcctctttt ctctctnttc 480
ttttttttc cttctttcct tttctcttcc cctcttttct cccctttttc tctcccccct 540
ttttccttt ccccttttct tttctccctt tccttcccct tcctttttct ttcntttctn 600
ccccctcnct cttcttcttt cttcttcttc ttttctttt tctcctcttt ttctttctc 660
ttccccttnc tcctttctct ttttcttctt ccttttttt ctcttctccc ttttttttt 720
ttttttccc tcttcncnct ctttttctcc ctttttcct nttctttctt tctctttctt 780
ctcttctttc ctccctttt ttcttctttt cttctcttnn cttccttcct cttttncntt 840
ctctctcctt ttcctctctt cctcctctcc tttcctccct ttttctttt cctcctcttt 900
ttctctccc 909

<210> 431
<211> 855
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(73),(75),(91),(92),(150),(173),(175),(242),(303),(311),(317),(434),(561),(628)
,(641),(677),(740),(758),(763),(764),(766),(768),(769),(774),(780),(781),(787),
(790),(791),(800),(801),(802),(804),(807),(810),(816),(817),(818),(820),(822),(
825),(826),(827),(830),(831),(834),(839),(843),(844),(846),(847),(850),(854)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 431
ggggagagaa aaagaggagg aaaaagaaaa agggaggaaa ggagaggagg aagagaggaa 60
aaggagagag aangnaaaag aggaaggaag nnaagagaag aaaagaagaa aaaaagggag 120
gaaagaagag aagaaagaga aagaaagaan aggaaaaaag ggagaaaaag agngngaaga 180
gggaaaaaaa aaaaaaaaaa gggagaagag aaaaaaaagg aagaagaaaa agagaaagga 240
gnaaggggaa gagaaaagaa aaagaggaga aaaaagaaaa gaagaagaag aaagaagaag 300
agngaggggg nagaaangaa agaaaaagga aggggaagga aagggagaaa agaaaagggg 360
aaaaggaaaa aaggggggaga gaaaaagggg agaaaagagg ggaagagaaa aggaaagaag 420
gaaaaaaaaa gaanagagag aaaagaggaa gagaggaggg gaaagggaag gaaagaggga 480
aaaagagggg ggggagggaa aaagaaggag aagaaaaaga agaaaaaaag ggaagaggag 540
aaagggagaa aaagaaggaa naggaagaaa aaaaaggaga gggaagagag agagagagaa 600
aaagaaagga gggagagaga gaaagggngg gaaaaggaaa ngaaggaggg aaaaaaagag 660
aaaggggaaa agaaaanaaa gaggggaaag aagaaagggg aaaagaggga aaaaaaaaag 720
aaagaaagaa aagggagaan aaggggggaaa ggaagggnaa ttnnananng aaangggaan 780
ngaaagnaan naaaaaaagn nnanagnagn gagagnnngn anagnnnagn nggnagagng 840
cannannagn aatna 855

<210> 432
<211> 870
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222>
(72),(74),(90),(91),(149),(172),(174),(241),(302),(310),(316),(433),(560),(627)
,(640),(676),(739),(757),(762),(763),(765),(767),(768),(773),(779),(780),(786),
(789),(790),(799),(800),(801),(803),(806),(809),(815),(816),(817),(819),(821),(
824),(825),(826),(829),(830),(833),(838),(842),(843),(845),(846),(849),(853),(8
55),(856),(860),(861),(863),(864),(869)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 432
gggagagaaa aagaggagga aaaagaaaaa gggaggaaag gagaggagga agagaggaaa 60
aggagagaga angnaaaaga ggaaggaagn naagagaaga aaagaagaaa aaaagggagg 120
aaagaagaga agaaagagaa agaaagaana ggaaaaaagg gagaaaaaga gngngaagag 180
ggaaaaaaaa aaaaaaaaag ggagaagaga aaaaaaagga agaagaaaaa gagaaaggag 240
naaggggaag agaaaagaaa aagaggagaa aaaagaaaag aagaagaaga aagaagaaga 300
gngagggggn agaaangaaa gaaaaaggaa ggggaaggaa agggagaaaa gaaaagggga 360
aaaggaaaaa agggggagag aaaaagggga gaaaagaggg gaagagaaaa ggaaagaagg 420
aaaaaaaaag aanagagaga aaagaggaag agaggagggg aaagggaagg aaagagggaa 480
aaagaggggg gggagggaaa aagaaggaga agaaaaagaa gaaaaaaagg gaagaggaga 540
aagggagaaa aagaaggaan aggaagaaaa aaaaggagag ggaagagaga gagagagaaa 600
aagaaaggag ggagagagag aaagggnggg aaaaggaaan gaaggaggga aaaaaagaga 660
aaggggaaaa gaaaanaaag aggggaaaga agaaagggga aaagagggaa aaaaaaaaga 720
aagaaagaaa agggagaana agggggaaag gaagggnaat tnnanannga aangggaann 780
gaaagnaann aaaaaaagnn nanagnagng agagnnngna nagnnnagnn ggnagagngc 840
annannagna atnannaggn nannggttna 870

<210> 433
<211> 765
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(74),(76),(92),(93),(151),(174),(176),(243),(304),(312),(318),(435),(562),(629)
,(642),(678),(741),(759),(764),(765)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 433
gggggagaga aaaagaggag gaaaaagaaa aagggaggaa aggagaggag gaagagagga 60
aaaggagaga gaangnaaaa gaggaaggaa gnnaagagaa gaaaagaaga aaaaaaggga 120
ggaaagaaga gaagaaagag aaagaaagaa naggaaaaaa gggagaaaaa gagngngaag 180
agggaaaaaa aaaaaaaaaa agggagaaga gaaaaaaaag gaagaagaaa aagagaaagg 240
agnaagggga agagaaaaga aaaagaggag aaaaaagaaa agaagaagaa gaaagaagaa 300
gagngagggg gnagaaanga aagaaaaagg aaggggaagg aaagggagaa aagaaaaggg 360
gaaaaggaaa aaaggggggag agaaaaaggg gagaaaagag gggaagagaa aaggaaagaa 420
ggaaaaaaaa agaanagaga gaaaagagga agagaggagg ggaaagggaa ggaaagaggg 480
aaaaagaggg gggggaggga aaaagaagga gaagaaaaag aagaaaaaaa gggaagagga 540
gaaagggaga aaaagaagga anaggaagaa aaaaaaggag agggaagaga gagagagaga 600
aaaagaaagg agggagagag agaaaggggng ggaaaaggaa angaaggagg gaaaaaaaga 660
gaaaggggaa aagaaaanaa agaggggaaa gaagaaaggg gaaaagaggg aaaaaaaaaa 720
gaaagaaaga aaagggagaa naaggggggaa aggaagggna attnn 765

<210> 434
<211> 1248
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (622)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 434
agacctgtgt ggtgtgcttt gtctccaaat taccccagtt tggtgattgc tcggattttc 60
caagggatcg ctgtcagtac tgtcgagtgt cttcccctctg ccactattgc cgaaatctac 120
ttcctgcatg agcgagcata tcgtgttggc atctacacac ttctccttct tggtggcaaa 180
aacctcgtgc ctctggtcag cgctgctatt atcggccgca tgggatggcg ttgggtgttt 240
tggatcgtcg caattattgt tggtgcttgt ctcgtcctcc tcttcttttt cgttcccgag 300
acgttctggg atcgcacacc gcgtcctcgt cgctctcaca agcgtcctca tccgatgcgg 360
agcgtatcgg accttctccg gggtcgacaa cttcaccacc gtctggagaa cccagcctcg 420
aatggagacc acacatcacc tgctcccaga aagtccaaca agggtcacgt tggctttgtg 480
gaggatcaag atcaggatgg aaaccccata gatgagaaga aaagaaatct tgaagataac 540
gaccagatat taccatccga gacgccagcc gagcacaacg atcagtcggt cttggcgaat 600
cccgagcagc acgatgcacc cntacaaata cctgctccag cggtcactcg tgagtcagac 660
tctcagcgcg atctcgaatt tgctaggcga cctgccgtgt cacccgcgcg tagtgaatcc 720
gtgggttcag ccgtaccact gcttccgtcc caggtgtata ccaaccgact acgagagaaa 780
cctcgaatcc cctttacgca ttacctgcga gtctggaacg ggcgaatttc gcatgacaaa 840
tggttacgag tcgccatacg accgttcatt ctgttcgcct acccagctgt cctctggtca 900
tcagtagtgt atgcactgtc tgtcggatgg cttatcgtgc tgtctgagtc tgtggctcat 960
ctgtaccagg gcccgcatgg ttacaacttc acacctctac agaccggcct gatttatatc 1020
tccccgttcg tcggcggtct tttaggaacc gcggttgccg gtaaagtatc cgatgtgatt 1080
gtgcgattca tgtcccggcg caatggaggc gtctacgagc ccgaattccg ccttgtcatg 1140
gccatcccta ttgctctatc aacttcggcg ggattgatgg cattcggatg gagcacggcg 1200
gtgaaagatc tttaccaagg ggaccgaggc atcccgcgct atggtcat 1248

<210> 435
<211> 318
<212> DNA
<213> A.fumigatus

<400> 435
aattggaggc acacccctaa ggttggcaag caatcccgaa accagaattt tcggaatgcc 60
gtggacaagg acggtacccg ccttcccacg aggatttatc ccgcacctgc cgtatcaacg 120
atccgtgctg atctagtaga tttgactgga cgtccgatgt tctcgatgac gggtaacgtt 180
atcagttgcg gtcgacttgt cgcactagct cattgcttgg gcctcaaccg agaccctagc 240
aactggaagc tgtctcccca ggagaaggac aatcgtattc gtttatggtg gggcgttgtc 300
atccatgacc gttggtaa 318

<210> 436
<211> 570
<212> DNA
<213> A.fumigatus

<400> 436
agcatcgaat tactccatac aaccatacaa gccgtggata tcctgagtgc gacccactca 60
gtcgacgatt ataacgtcag cactgccgga tttatcggat tttatcattc aatcggccgt 120
tatccccttc cagaacgatc aacatatttc tataagaccc tctttgcttc tgtacttaga 180
gtcctacctc acacgaatcc atccgtaaac tcaggcgcag tcagacaaaa ccataaaatg 240
gacttcatca gtacccaaca ccacgatacc tacccccttca tcgcccaggc cacccaccac 300
aaccacagag tcctcatcac cggcgcctcc cgaggcatcg gcctcgcaac agcgcactcc 360
ttcgcgcgag ccggcgcccc atccatcgcc atcgctgccc gaggcccccct cgataccgtg 420

gagactgccc tcctctccac cgccaaagaa gcaggccacc cgccgccaac aatcctcaaa 480
ctgaccctcg acgtcgcaga cgatgccagc gtggcagctg ctgcagagga agtggccgct 540
actcggacac ctcgacatcc tgatcaataa 570

<210> 437
<211> 198
<212> DNA
<213> A.fumigatus

<400> 437
aataagccaa ctcgctcatg ctacagattg aatgatatcg aggatggttc cacccttcgc 60
cggggtaagc ccgctgcaca tctcaaattc ggactcggac agaccgtcaa cgccgccacg 120
tttctgcatg cggaggccgt gaggtatact cttgagcatc ttgggcccga ttgttcgatg 180
ctcatgttga aactatag 198

<210> 438
<211> 891
<212> DNA
<213> A.fumigatus

<400> 438
tcctcttctt gtagcgcggg tccttccagc cccgtggtga agactgacgt tacggatgct 60
attatcgagt tggacaaggc tttccgctgt gcaaaggctc ctctgtcgcc catcagccgt 120
ccagacaata attcagttga attcgcccgt acgcaagaaa atgggaattc cctcagccta 180
cctgaattac ctcctattct ggacagttca ctggaattgg cggtctttac acatcctggc 240
ttgagcaagg attcgaagtt gacttatgat cgccttgaga tacttggaga tgcttatata 300
gagctgatcg ctacgaggtt catttggggc aggtatgagg gtttttcttc tggtcagatt 360
tcgcaaataa gggagctact ggttaagaat gagactttgt cggagtttgc gacattatac 420
gggctcgaca acagagcgtc agtgccacgg gacttgctta gccagcccag gcgatggacc 480
aagactaaag gtgacatctt cgagtcttat gtggctgcag ttattttgtc tcgtccgagt 540
gatggttacc acgttgctga acgatggttg acacagctat ggcttccaag gctcacagat 600
gctgtgatac cgcggactgc tttggatgca aaggagaacc ttgccaagag aattatgggt 660
aaaggagtta agctcaaata tgttgatgag cgttcacctg cacagtcgag aggtgggatg 720
cagactttct atgtgggtgt ttaccttact ggttggggct ggcaaaacaa gcatttgggt 780
tctggtcatg gacctagtaa agcagttgca ggggatgcag cagcacggca agccctgttt 840
gaatggagct ctttaaaatt tataattccc accaaaaaag aaaacccttg a 891

<210> 439
<211> 309
<212> DNA
<213> A.fumigatus

<400> 439
tcaccgcatt acgtgccagc cccgtcgtgt cagaataact catcaggcca tgcgggctgg 60
ctcggatggc ccgccaactt gggccccgcc gcaacactct tcgccaaagt ctacaccgac 120
gcgggttccc ccgcggctgt tcgtggcctg gccaccaacg tcgccaacta caacgcctgg 180
tcgctcagta cctgcccctc ctacacccag ggagaccccc aactgcgacg agaagaagta 240
catcaacgcc atggcgcctc ttctcaagga agccggcttc gatgcccact tcatcatgga 300
tacctgtaa 309

<210> 440
<211> 312
<212> DNA
<213> A.fumigatus

<400> 440

gtgcttattc caatcgccga tgtgtgccga ctaatcaatg tttcagcccg gaatggcgtc 60
cagcccacga agcaaaacgc ctggggtgac tggtgcaacg tcatcggcac cggcttcggt 120
gttcgcccct cgactaacac cggcgatccg ctccaggatg cctttgtatg gatcaagccc 180
ggtggagaga gtgatggcac gtccaactcg acttcccccc ggtatgacgc gcactgcgga 240
tatagtgatg ctctgcagcc tgctcctgag gctggtactt ggttccaggt atgtcatcca 300
ttagccagat ga 312

<210> 441
<211> 342
<212> DNA
<213> A.fumigatus

<400> 441
caccgcatta cgtgccagcc ccgtcgtgtc agaataactc atcaggccat gcgggctggc 60
tcggatggcc cgccaacttg ggccccgccg caacactctt cgccaaagtc tacaccgacg 120
cgggttcccc cgcggctgtt cgtggcctgg ccaccaacgt cgccaactac aacgcctggt 180
cgctcagtac ctgcccctcc tacacccagg gagaccccca actgcgacga gaagaagtac 240
atcaacgcca tggcgcctct tctcaaggaa gccggcttcg atgcccactt catcatggat 300
acctgtaagt gcttattcca atcgccgatg tgtgccgact aa 342

<210> 442
<211> 510
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (165)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 442
tggagatttt gttccgtgag tgcgagggag ggcatgatta tcacggactt tgcgagtatg 60
ccgtttgccc gacaactaga gaagacagct gctaatgatt gtaggtccaa gaatcgatgg 120
actatggttg catccctagt gattgctacg atcttacgag tcctntgggt catcatttct 180
tacggttgta aagttccggt cggcattttc gtcccgtcaa tggccattgg agcgtccttt 240
ggtcgcttgg tagggattct tgtccaggcc ttgcacgagg ctttccctaa ttccgcctac 300
tatgcctctt gcaaaccaga tgttccatgt atcactcccg gaacatatgc gttccttggc 360
gctggggccg ctctgagtgg gattatgcat ctcagaatat ctgtggttgt catcatgttt 420
gaaccttacg ggggccttac ttactttcta cccacaatgg tgagtcaatc aggattggtt 480
ggcatcatca caaaacacta cattgggtaa 510

<210> 443
<211> 288
<212> DNA
<213> A.fumigatus

<400> 443
ttaggtggtt ggacactatt gatcaagtcc atcgcgcttc cattggccat tgcgtctggt 60
ctttcagtgg gaaaagaagg tcccagtgta cattttgccg tctgtacagg gaatgtcatc 120
tcgcgccttt ttagcaagta taagctgaac gcatcgaaaa cgagagaagt cctgacggca 180
actgctgctg ctggtgtggc agtggcattt ggcagtccaa ttgggggggt actattctct 240
ctagaggttg gtgattttga ggcgcatgtg ttcggagggt tatgctga 288

<210> 444
<211> 219
<212> DNA

<213> A.fumigatus

<400> 444
tccaggccac agatgatgaa tcccttcagg accggacaac tcgtcatgtt tcaggtgcag 60
tatgatcgca cgtggcattt tttcgaacta atatttttcg tacttcttgg gatatttggt 120
ggtttgtacg gcgtctttgt gatcaagtgg aatctgcgag tccaggcgtt caggaagaaa 180
tatctttcgc aataccccat tgtcgaatca gtcatctga 219

<210> 445
<211> 957
<212> DNA
<213> A.fumigatus

<400> 445
tgtacgcatt tcctgccgtc ccggcggtta agaatcgaca gctgcgacgt tcgtggatcc 60
ctggaaggat tgaaggagat gttgagcgag cttaagtcgg caaaagagat tgctattgat 120
ttggagcatc acgatgtgca ctcgtatcat ggcttggtgt ctctgatgca gatcagcacc 180
cgggacaagg attgggttgt tgacacgctg aaaccttgga gagaagagct ccagattctc 240
aatgaggtat ttgcggatcc tggaattctc aaagttctcc atggctcgtc catggatatt 300
atctggctgc agcgagatct cggcctctac gttgtgggca tgttcgacac ctaccacgcc 360
gcctgtgcct taaactaccc gaagcggagc ttgaagttcc tccttcacaa gtttgtcaac 420
ttcgaagccg acaagagata tcagatggcc gactggagaa tccgtcctct cccgtcagga 480
atgtttgact atgcccgctc cgatactcac tacctcctct atatttacga ccacctacgc 540
aacgagctgt tggaaaactc gacgccggac cacaatctcg tcgattatgt actggaacag 600
tcaaagaacg aagctttaca acgttacgag cgtcccgttt acgacgctgc cacgggacaa 660
gggcaaggcg gatggtatga ctatctgtac cgcaaccctg ctgttctgag caaggaacag 720
tttgccgtct tcaaagcagt gcaccaatgg cgcgacgagg tggcaaggga agaagacgag 780
ggcgttcaat gcgtgtttcc aaagcacatt cttttcaaga ttgcccaagt catgcccctt 840
gaccagggta ctctgttccg gacgttatct cccgtgacgc cgattgccaa ggaccgagca 900
gcggatctcc tggaagttat caagaaagcg aagattgaag gagctacagg acccgaa 957

<210> 446
<211> 615
<212> DNA
<213> A.fumigatus

<400> 446
tctctgggga tacatctttc cttcgtgcgg cttggtgaaa acaccgtcgc gatgtctcgt 60
gcgcggtccc acacgcgcag tgccagccgt agtccctctg cttactcgcg gtctgccacg 120
cccagcgatg acgaggaagc ggcccgggag cgggagcgca ttcgtcgcga gcgccgccag 180
gacgccgagc gacagctgcg ccagtctcgc atgggcacgg aacgacggat ccagatgatg 240
gcccgtgagc agaatcgtga tatctccgag aaggtcgcgc tcgggttggc caagcccacc 300
cagacatccg agtccatgtg ggactctcgg ctctttaacc agacaagtgg cctgcagtcc 360
gggttcaacg aggataatcc ctacgataag ccgttgtttg ccgcgcagga cgcgatcaac 420
agcatttacc ggcctcgggc tcagctggat gtggatgacg aagagggagc tgaaggggag 480
atgagcaaaa ttcagaaaac caatcgcttc gaagttctgg gcaaagccaa agatagtttc 540
cgtggcgcag ctgaggctga ggtgagattt gattcccctt ctgctccccc cccctctagg 600
atgcctctat cctga 615

<210> 447
<211> 894
<212> DNA
<213> A.fumigatus

<400> 447
agtcctctcc ttgcacccat attcaatctg ccaaatcctg tctcattgag acaaaggaac 60

gcaatatttc agtcatactg tgattttatc tccgagagat caaaggctat taagctcatc 120
aagatgagcg cgcacacttt gaaaaagaag tcctgggagt ccctctcgtc gactttctcc 180
aacctcgaaa tatctgtctc ccaggacagt tgctacgcct cggacgagct ctccatcagt 240
ccaaccaatc ctgtcactgc tggcacgtcg ctagcctcct ttacgccagc ccgccagaat 300
tcattacact cgctattgaa gcctattttg aagaggccgt actctgatat tgaggaagat 360
gaggaacctg agtctggcta cggaacagac gattctgaat acgattacgc ttctgtgtct 420
gatgagcatg acgacgaaat gtatgcggtt tccacctggg acgaggcctc ggatgcctct 480
gatgccatct tggaaaactg caatgatgat gttgaatcag tggacggttc attcatttcg 540
ttcgaatcaa tggtgcgttt cgacaccaat gtgcgttata tcgaggcgcc agagcctcag 600
gaagaagaga ccgagacgcc gagaaccgaa ttaacctgcc atgaattaat ggaaatggcg 660
agggcgtctg gcactcttcg cctgcagggc gaacaagtcg ctgagtctga ttcgagtgac 720
aaaatgcccg aacatgatga actcgatgat tcaatcaaac aatggccaga ggagcacccg 780
agtgacattg tggacctgga taagagacta ttcatcggct acatcaaccg catcaacgga 840
aatgccgatc ctggatacaa agtgcgtctt ccggaaagat ttgatgatat ttag 894

<210> 448
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (64),(67)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 448
cccggcccac tattcgccga tgaccgcatc catgttggtg ccttcgcatc ctggtgcacc 60
ccgntcntag tccttactac ccccctccac cacagcatga tcggcgtccc tcgccgcaat 120
ctgcctaccc gtacgatagc cgtcactcct cttccccgca cagctcccca tatcctcctc 180
tgcacaccgc tacaagtacg atga 204

<210> 449
<211> 198
<212> DNA
<213> A.fumigatus

<400> 449
acttcaatcg cggatccttc cagccccgtg gtgaagacaa gtatcgaagg tatcccttta 60
gcgactttca accatgtgga ttatggtgtc ttcggctttt gcaaggggcg cgaatgcacc 120
aacatcggta ggggctacac tactggtatg tggtttcgcc tgtacagcag caagcaggtt 180
gccggctacc atagctga 198

<210> 450
<211> 798
<212> DNA
<213> A.fumigatus

<400> 450
catccttcag acgaaatttc aaacaccgac aatagcgagt tcgatctacc atcgagtact 60
cgaagggccc tatcctccat cctgatcggg cacccggtcg ccgcctttct caccctcgtt 120
tgcctttgcc tcgccgcggc cgctcaccta cacgctccgt cgcattcacc ccgatatctt 180
ctagcgctct tgatcctcct acttacgaca cttctagatt ccctccttgc cttcttggtg 240
gacattcttc tttttggacc gcatctagga tggggaggct ggattgtctt gggtgccaca 300
attctgctgg tgatcagcgg cgtggtcact tgcgcgatgc gccggactct ggttagtcgc 360
aaagcgagaa agagacgaat cgcagagaat gcagaaatga gtggggagaa ttactacaac 420
cgacagaatg cggcggcgcc ggttgtcgcc agcggattca ccggtccaag atcagcggcc 480

ttgaacgctg aaacgaaaga ggccattctc acaacctccc caaattcgga gtccggcccc 540
atgttcgcta ccttccgcac gacgacacat tctagcgatg acgatcaaac gcctctcaat 600
actcagggag ctccgactga tattcctgcg ccagatagtc agtatgctgc acgcggccac 660
ggcgatagaa tgccctcggg tgcacttttc gacgagtcaa gaaaccatcc atatgcaagt 720
tcttaccgcc cagggcctcg gatgcgacct gaacctggtg atcctcgctt acgtcctcag 780
tattcggacg gcagtatg 798

<210> 451
<211> 348
<212> DNA
<213> A.fumigatus

<400> 451
gcgcgtttcc ttccaggccc gtggcgtgaa gaccagactt tcctgagtgt gtgcctggcc 60
acgtccgtcc tagcagttac caatcacgct gagaatctag cgcatcaggc ctctctgcct 120
catcatagat tcaccctcga ctgtctctcg tcttcaaagc gacttttcat tggccaatgt 180
acccgtggag atagcctgag acgacccgct gaccaacaga tgcagcggtc ttatgctcat 240
cgagagtacc ctcaagatcg acacctggtg aacctgtgcc ctcggaaagg ttggtgtaat 300
gggacgattg gggtggagcg tctgtctttg ttcgatgctg gattatga 348

<210> 452
<211> 297
<212> DNA
<213> A.fumigatus

<400> 452
ggggggggaa aaaaaagcaa gaaaaaaaag actggcaact atcaacagac aatcggcatc 60
atcttccctc aaaataatac tcaaggtgaa gaatatcgcc cgagagttct ccaaggtcag 120
ttcggcatgg caactctgac atcggtaggg attgaaggta tcggcctacg cggcaccacg 180
ggaatcggca cgttgagaaa ggtcaattgc ggcgggaaaa atgattggtt tggcactacg 240
caactgaatc cctgggtgag gcgaaccgtt cttccgttgg cttctatgga gatttga 297

<210> 453
<211> 288
<212> DNA
<213> A.fumigatus

<400> 453
tcctgcaccc cccgacttct ccattttgta acgtccaaaa gcgaatcaac tcgcaactta 60
gtcctaagcg ctgaacacga gccctacttt gtgatattgc aatatctctt ggctttttct 120
tacaagaagg tagtcctggc tcgagataca tttggcgagt gttcaacaca atgctacacc 180
tacctgtcac tctacctttg cacagtgcaa tctagatcag cattccagtc atcgactctg 240
gttcttaggt atcggttgtg ctttagccgc aatccatgtc ccacatag 288

<210> 454
<211> 1014
<212> DNA
<213> A.fumigatus

<400> 454
ggtgggggta ccttatgccg ttgtttatta tcgggcattt tcgcaaggac ccttgttcat 60
ttgtggggat caagaaattc aaagtcaata tggagaacaa ggacgttctt ccctatggat 120
gccattcgcg aagtgaaata tctacaggaa ttttcgcatc ccaatataat agctctgcac 180
gatgtattct cttttaaaga ccagaatctc aatctggttt tggaatattt accacgtggt 240
gatctggaga tgctcattaa ggacgaaaac attcactacg gtgttgcaga tgtcaaggct 300
tggatgggaa tgcttgctag aggtgtttgg ttctgccacg aaaactttgt gctacatcga 360

gacatcaaac ccaacaacct cctcattgcc agtgatggtg aggtcaagct ggccgatttc 420
ggcttggcta gatcatttgc agatccttat ttaaatatga cacatcaggt cataactcgt 480
tggtatcgcc cgcccgaact gctttatggt gcccggcagt actctggggc tgttgatgta 540
tggtccatgg ggatggtatt tgctgaactc ctcctgagag tcccatttgt tgccggaaat 600
tcggacattg atcaaatatc gaaaatatgt gaagcattcg gcacgccttc cgaagagaat 660
tggccgggag tcagtacgtt gcccaattat atcccctcgg ataggcaaag cactgttcca 720
ctacagggtc gtgatttctt cttacggcag tttcccacgg caggtccagc gggtgcagat 780
ttacttatgt cgatgtgcac gttggatcca aggaagcgga gcacggctta tcaaatacta 840
cagcatggct ggtggtcgac tgaaccaagg ccgacagcta aggaggatct tcctcgtaaa 900
tcaggtggga ctaagaaaat gggtgacgat ctctcaaggc gcggtggcga cgtggacgac 960
ggtccattca agagtgccgc tcgacagcta gatttcatgg cagttaagcg ttaa 1014

<210> 455
<211> 825
<212> DNA
<213> A.fumigatus

<400> 455
atggtggccc aagcccttaa cgggtttggg catccagatt cccaagttcc attcgaagag 60
ccatcacccg caccataccc agcaacctat tcaccacaca caccacaatc aagcttcaca 120
caacatcaac caccaacaca cttctcgagc ggggcattgg cttccgcgac tccccacttt 180
accccaagcc acatccaaaa tggggctcac actaatgttg acgaggatat tgacgaatcg 240
atgaatgagc actggcagca acaacttcag ttggccgcgg agtcacggca ggccagctca 300
ccccactatc atgcccgatc tgtcgcgcga caagccaagg gcatccagat tgcccctagc 360
caaccggaga cacaagaaca agttcctgat gggcagaacg gagtggtcaa ggccaaggca 420
tcttcacggc aaggttggca cgccttggat ttcggcggac agggactgcg cgcgctgtcc 480
acgtctctgt tcaactatat cttcttggag aaattgtacc tgaatcataa caagctgaag 540
gccctcccac cggccatcgg gcagcttcgg aaattaaatc acttggacct gtcaggcaac 600
gacctcaccg agcttccaga ggagatcggc atgctcacga atctgaagaa gctctacctg 660
ttcgacaaca atatccgcac tcttccttac gagatgggtt acctctacag gctggaaaca 720
ctgggcgttg agggcaaccc actgaatgat gtcttgaagt ctcacatcat gaaagagggt 780
accaaggctt taatcaaata tctcaaggaa gagatgccag gttag 825

<210> 456
<211> 195
<212> DNA
<213> A.fumigatus

<400> 456
cgggtttggg catccagatt cccaagttcc attcgaagag ccatcacccg caccataccc 60
agcaacctat tcaccacaca caccacaatc aagcttcaca caacatcaac caccaacaca 120
cttctcgagc ggggcattgg cttccgcgac tccccacttt accccaagcc acatccaaaa 180
tggggctcac actaa 195

<210> 457
<211> 378
<212> DNA
<213> A.fumigatus

<400> 457
agacccagtg cgccgaatgc tagctgtacg ccggaaacct acgaccacat actaggaatg 60
attgacaagt acgtccgccg cgaacgctcc cagcgccgct ggcgtctggc ccatttcgtg 120
gcgtcggttg ttgtctcaat cggttgcttt gttggagtct ggtggaccgg cgaccatctc 180
ccatatgtgg ccttcatctt gtgcttggtg agcacgctga gcttcggggc gggaatcttg 240
gatgggctga ttggcgggtt attcgtttcg agtgagctgc gggcgctgaa ggagtttgag 300
tgggaggtgc gcaatgcgaa gcgcatcgtt gagcgggcgg gcgcccaggg aacgatcaaa 360

atcgaggaga gccaatga 378

<210> 458
<211> 723
<212> DNA
<213> A.fumigatus

<400> 458
cgcaccagcc cacgaacaca caagtggtgt tttattccac gtgaccggca acccagattc 60
acttccccca aggctggagt acactcgacc aatcgtttcc acccccttcgt taagcaagag 120
acttcgaaac atgctttaac tggatccgcg cctctggagc gcaaatctcg cgcgcgtcct 180
gaagcagacg atgactggtc tgctgcaggg tctgagttcg attcgtctga cgatgacgac 240
gacgagcggc caggaggtgg tagtgctaaa caacttgcaa gtattctatt tggtactatg 300
gcaccaccac gacctttgag tgctatggat gacaaatcgc cctccaagtc gtcgactcca 360
gtgcaggaca gcccagttgc ctctctccct gtgcctgagt cgaacggcag cctctctgca 420
cctgctgccc ctcctccgcc ccctcctccc ccaccagcgg cagtgcccag ctatgatcca 480
tccgtcgcac cgccccccacc tcctgcacca cctatggcac cacctgcgcc acctccaggc 540
cctccaccgc ccccaggccc tccaccaccg ccagctcctc cggctgccag tggcccgcct 600
acgcctgcag gagcacccga tcgtagcgcg ctcttggcct caattcaaaa gggcaaaggg 660
cttcggaagg tccaaaccaa cgatcggagc acgagctcaa ttgctggtcg tgtgcttgac 720
tag 723

<210> 459
<211> 279
<212> DNA
<213> A.fumigatus

<400> 459
atctgtactg actgctatcg tgatatagcg aaagccttag aactcttcat gatttctctg 60
gtcaccaagg cggccaaaga agctagagat cgcaactcga aacgcgtgac cgcgacgcat 120
ctgaaacaag cggttgtcaa ggatgaagtt ttggatttct tggccgacat aatcgccaag 180
gttcccgatc aacctgccgg cggaacgaag catgtcttca tccacgaagg cggcaagaat 240
ccgcgaaagg gcatacataa ccccccaatc gcccccgcc 279

<210> 460
<211> 564
<212> DNA
<213> A.fumigatus

<400> 460
agcattttcc tagcaatgac agatcaggac agcacctaca gaccccgttc acccgatctt 60
tccaccttcc agtcctctgt tcctcccgcc gttaactccc ccatctatcc tctcgcgagt 120
cctctggcac accgggcttc ctacgacgcc tcacctttct ttgccccgca atatcagcaa 180
ccaccggccc cgcttggtcg ggtccctcag cagtacatac caccattcgt agacccgaac 240
tctcctcttt ctccagacat ggctcgtcga tcctcccgtc tggcacgcgc gaccgaggtc 300
gcgcccatgc cagaggtctc atacgcgcag ccagtactct cggaagagcc gcagcagctc 360
ccaccaccgc cgccgcaacc caacccagtg gctagcattg aggtgaagac gaagtttcct 420
gtcgcgcgta tcaagcgtat catgcaagca gacgaggatg tcggaaaggt ggcacaggtc 480
actcccattg ctgtctgtac gtgtatccca cttcatttcg tccctgcgtc tcttgaatct 540
gtactgactg ctatcgtgat atag 564

<210> 461
<211> 606
<212> DNA
<213> A.fumigatus

<400> 461
ctttctgaac aagctttttc cttgagcgac accccaattg agtgcaacat gaccaaatcc 60
gccttcctct tcctagacat ccagaacggg atcgtcgagc gcctagacga cccagatact 120
taccttgcaa gccttgctcc tgtcatcaag gcggctcgca aatccgtcgt caaagtcatc 180
tacgtcaaga cagctttccg ggaaggatac cccgacacac atccgcgcag caccatgggt 240
actcgagtcc gagaatcaca atccttccac gaaggtgata tctccgtgga gatcccttcc 300
atcgtgtcac cggatgccaa cgagccgatc atcaccaagc gccgcgtgtc ggctttcacc 360
gcgacggatc tagacctagt gcttcgctgt ctgggagcgg agcatttggt cgtcgtcggg 420
ctgatcacca gcggtgcggt gctgtcaact gttcggcagg ctgctgatct ggactaccag 480
ttgactgtgt tggaggatct gtgcatggac agagaccaag aggttcatga tgttttgatg 540
aaaaaggtgt tgtcaagaca ggcgcgggtt gtttcctctg cagagtggtt ggcagaactg 600
gattga 606

<210> 462
<211> 303
<212> DNA
<213> A.fumigatus

<400> 462
ttccttctcg tttgctgtat tcttatatta cgtggatcgg cctacaatct ttcgcagatg 60
gcatctcgaa gccccagcga agaagcacct aaaccggcgc cgtttagcaa cttcccgcag 120
gacccggctg aattcgacag cgaccccaga atttccttct cgaagctgga caacaagttt 180
atactagaga ctgaagacgg acaggaattt gaatacgata cggttttaaa acgatggatt 240
ccgacggtgt gtgcgcgctt cctctgcagc tggtcgattc cctttgtatc ttgcgatcgt 300
tga 303

<210> 463
<211> 249
<212> DNA
<213> A.fumigatus

<400> 463
aacgatggat tccgacggtg tgtgcgcgct tcctctgcag ctggtcgatt ccctttgtat 60
cttgcgatcg ttgaactctt acctttcctg tctccctctt gttatgagct ccctttctac 120
cacactgtgt ttttcccact tgccaagtat catatctgga gcacagcgtt tgactgcaga 180
tacactgcca tcgccgttgc tacatggtct gtcttcacca cggggctggc aggttccgcg 240
cttagcgta 249

<210> 464
<211> 687
<212> DNA
<213> A.fumigatus

<400> 464
ttgccaccac tgttagttga aatggggatg atggaaaata ataaccgatt ccgttcttat 60
tctgtcaatg ctaaggagaa atacgcagac gatgagattc ttgagtatgc cactcgctat 120
tctcaaattc cttctggcac cgtcaccctt tctgccgcag cgacagccgc tcaactcgct 180
gccacgcagg cccagattca tcaacataat cttgccgtgc aagcattcgc caaccatgct 240
tcggtaaacc gaccgcgagc acgaacagct ggtgtgttag aagctcctcc gcagagatct 300
tcaattcgta actatctggc cactccgtct cgcctcgaaa acagcttcag tgccgcggat 360
cttcatatcg ccgaaaccgg tgaatacgat gagctatccg aagctgtgca gatgatgaac 420
ctcggaggta atggtggtca aaacctgggt cttcgcgcga gcggagaggc tgctgacgaa 480
agcaaccaag atgggcccac acgagcctta tggattggca gtattccagt ctccacgact 540
gtcacctcgc tcgaggcgat ctttggcata tatggcaaga ttgagtctac ccgtgttttg 600
acgcacaaga actgcggttt tgtcaacttt gagcgcctgg agagtgccgt gcaagccaaa 660
tcattgctta atggcaaaga gatcttc 687

<210> 465
<211> 375
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (338)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 465
aggagtcaaa cggattcgtc tggcggcggc ggcgatctaa ccactatgac gcgcacttct 60
acacctccca ccctactcca actccaaagc gcagactcag tatcatctca agctgcagta 120
cttcgcagtc tgaagaacga aacaattggt catgatcagc gcaaagagat ttatatcaag 180
cggggaatca ttccggtgct cactaaggtc ctcacgtcac ggaaactgag cgggggggagc 240
gttacggcgc cggttaaaga atcatctggc atcaagtcgg aggaagacga tgcttgtcta 300
caggcgatca tcatcctcgg tagtttggct caaggtanat ttccagtgat ttgtcccaac 360
aacgccagtg gtcac 375

<210> 466
<211> 261
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (8),(35),(54),(64),(68),(93),(118),(121),(122),(123),(233)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 466
cataattnta caaaccttgg cgtgaatgat cttgntggga tggagaaaat taanagggac 60
aagnccanac tccggatttg gattacttcc gantacctgt ttgagattcg taccttanat 120
nnngtaatag ctcttcataa gcgctctata tcaacacaac tgattcttag aaacctgctt 180
tccatgatat tacatggaaa atggaccgga gccttgacat ggggaaactg tanacttttc 240
tcaacttctt ggtgctcatg a 261

<210> 467
<211> 237
<212> DNA
<213> A.fumigatus

<400> 467
cccgttgcaa tgaaccgaag cattacgtcc atcaattccc gggcgtgcat ccaaaccctc 60
tactggtccc tcaacccctc aatccccccct caaaggagct gtttctcctg gaccgcgctg 120
cacctaccgt attggtccaa cggcgctctt caaggagaga attcgccgga ctatcctagg 180
tcctcccaaa gcacctttat tcaccgccac agacagaagc ccattcaatc atgctaa 237

<210> 468
<211> 225
<212> DNA
<213> A.fumigatus

<400> 468
tggtacgtca ctgagaaatc ggttgtcatt tctcttctga caattatagg ttctgagcgg 60
gcgagaactg caaagacggc gggatctacc ctagccgaag ccggtaaaat caatgagagt 120

ctcatgtatc tgggacaatg tttacagatg cagagtgaaa tccaagaagg gaaggtgcgt 180
ttcatgatgc cgacgattct ctttccttgt cttcaccacg ggtag 225

<210> 469
<211> 795
<212> DNA
<213> A.fumigatus

<400> 469
accgaagcat tacgtccatc aattcccggg cgtgcatcca aaccctctac tggtccctca 60
acccctcaat ccccccctcaa aggagctgtt tctcctggac cgcgctgcac ctaccgtatt 120
ggtccaacgg cgctcttcaa ggagagaatt cgccggacta tcctaggtcc tcccaaagca 180
cctttattca ccgccacaga cagaagccca ttcaatcatg ctaaacaatc ttctcacata 240
cttcaggaac cgactcctgc cctcatcttt cctcgtcgca atatgcctca aaagcccaac 300
gttctgcctc gcttgccgga tgttagccac ttgaccgtcg aactaaacca taactccgaa 360
tacatcgtcc tcgtctcaat gtatgaggtg tacaacgatc gaatcttcga tctactgtcg 420
cctgccgtcg tacccggcca aggaagtgcc atgtcgcgcc aaggagcaaa tgcccagaaa 480
gaccgtcgca gacccccttct gtacaagtcg accgaaggat cccctgacag aaaggtcgtg 540
gctggcctcc gcaagattgc ttgtagcaca tacgaagaag ccctggcagt cctcgaagtc 600
gggatgactg agcgtagagt gacagggacc agtgctaaca gcgttagttc ccggagccac 660
ggattcttct gccttgaagt taagaggagg atgagaaata agagaacagg agaagagacg 720
tggattggta acacgctcac tgttgcagat cttgatggta cgtcactgag aaatcggttg 780
tcatttctct tctga 795

<210> 470
<211> 693
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (6),(9)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 470
agtccnganc tacaaaagag ctcaagtttc accgaactta tcggtcatgc agtttctctg 60
aacaaaaagt caagttcggt cggagaaaca gagtgtggta ttggcaacac ctgtgcctgg 120
aaaatgtgcg gcattgatcc atcctcaagt tacggcgtgt acttcgagat cgccaaccag 180
ggcggtcctg cagccgtgca accaggcctt cagcggggta tgatgcaatt cttgacctac 240
taccagcatg cttctggtca ttatcatctc cgagtcacaa ctgttgcacg ccccttgagt 300
ggtccggctg gggacccgac tctcgcacag tcctttgatc aggaggctgc tgctgtgctg 360
atggcacgta ttgctgtcta caaggcagat gtcgatgacg gaccagacgt tatcagatgg 420
gttgatcgta tgctcatcag actctgctct cgcttcgcag actaccggaa ggatgaccct 480
acctcgttcc gtctggaaaa gaactttacg ctttatcccc aattcatgtt ccacctccgt 540
cgcagccagt tcttgcaggt gttcaacaac tcgcctgacg agacagcttt ttacagacac 600
gtcctcaacc atgaagatgt tggcgacgcc cttgtaatga ttcagcccac gctggattcg 660
tattttctgg aacatgaggg aagccagcat ggt 693

<210> 471
<211> 237
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (45),(124),(126),(182),(185)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 471
attttgccgg gtgcctggac cagttgtttt ttagaaagga gaacnggcca actccatggg 60
ggtcataggt tcctaacaga tagctcaaca tcgtcacagt tcaagcgttg tttggttcgg 120
gttntngata aaaacgccaa cgataacttt tggatgggtt tcaacgcttc ccttgaagtc 180
cnganctaca aaagagctca agtttcaccg aacttatcgg tcatgcagtt tctctga 237

<210> 472
<211> 417
<212> DNA
<213> A.fumigatus

<400> 472
cttcccgcga accttgagca attggaatcc gcccctccgc cctcttcggc cgttttcgtc 60
atggccgcca accaggacac ccccaccaaa gtgcctgacg gccagccaaa ccccgtcatg 120
gtcggtcccg gcatgaagtc tttgggcgaa gaggcttata ccaatgcctc aaatgccact 180
cctagtctgg agactgacaa aaaacatccc ctggtcaatg acgccccatc gtacttctct 240
caggttcctg gcaccaaaca atcgtcgacc gtctccgata ccgctctacc cggctcacca 300
gctgatgcag ccagggatgc aaagtcgcct attgaactcc tccgccgtct gagtctcggc 360
cgctccccaa tgattcctga cgttgacccg cgcgaacaat atcccggtct gaacctg 417

<210> 473
<211> 420
<212> DNA
<213> A.fumigatus

<400> 473
tatcaacgag gccatcgagc ggctgtcctc caagtgaccg ataaagggga catagcttct 60
tcctccgtcc tcggtttcgg tttcagtctc gttcgcgagt ttcacctcgt ggatggctac 120
agcgcagtcg gcacgaagct tttcatcgtt gtcctcccca tctccatctt catcagctcc 180
gccgtcatct tcttcaatct cctcgcttcc ctcctcgtca ccagcaacct cgccctcaga 240
ctgattctca tcccactccc caactaccgt gtccggcgtc tcaatccatg gccgccgatg 300
ccaaagcgtc caccgattca tcctctcccc ttccccaaac tcgatctctc catcttcgca 360
gcttaccaac actttctcgt gccttgggac cccccgcaga aacacccctc cggatattga 420

<210> 474
<211> 498
<212> DNA
<213> A.fumigatus

<400> 474
cggcgaggaa ctaccgccgg tggttcaata tccggagggg tgtttctgcg gggggtccca 60
aggcacgaga aagtgttggt aagctgcgaa gatggagaga tcgagtttgg ggaaggggag 120
aggatgaatc ggtggacgct ttggcatcgg cggccatgga ttgagacgcc ggacacggta 180
gttggggagt gggatgagaa tcagtctgag ggcgaggttg ctggtgacga ggagggaagc 240
gaggagattg aagaagatga cggcggagct gatgaagatg gagatgggga ggacaacgat 300
gaaaagcttc gtgccgactg cgctgtagcc atccacgagg tgaaactcgc gaacgagact 360
gaaaccgaaa ccgaggacgg aggaagaagc tatgtcccct ttatcggtca cttggaggac 420
agccgctcga tggcctcgtt gatactaggg atatgcggtg tcttcaccac ggggctggga 480
ggagcgacgt gtagtcaa 498

<210> 475
<211> 732
<212> DNA
<213> A.fumigatus

<400> 475
gacggacaga cgaagaaagc actgaacctg attctatccg acttgaagga tgtctcgctg 60
gcaatatcat ttgccaagtc gcaagatgat cctgatcttt gggaagacct tctcaactac 120
tccatggaca agccacgctt catccacggg ctccttgttg aggctggcac gtccatcgac 180
ccgatcaaac ttgtcagacg catcccaagc ggacttgaaa tcgaagggct gcgggaaggc 240
ctcacccgca tgattcgtga acacgacttg caggcgagta tcagccaggg tgccgccaag 300
gtccttcaaa gcgaagtcgc tgttggcatg gccaccttaa gaaaaggaca gcaacgaggc 360
atcaaattta atatcattga agagaaggcc gtctccgaca ccggcgacag aaacgaagcg 420
agcagcaaca ctgatacaga gaaggccttg tcgccatcga ggccgcctac gtttcaacca 480
gggaggtgcg caggatgcca tctccctttc tatcccaacg gtaagctacc ttgcttagac 540
tatacaaaaa tgtcctcagt gttgatccat tatgttcgcg taaagaaaag gaaatcctcg 600
ttggcttcgc atgtggacat gtcttccacc tatcgcacgt tcactcggat gatacctcaa 660
caacctcgga cggaaaccag tccggaatgc agaccccacg cccgctgcca gaaattggca 720
tatccaccct ga 732

<210> 476
<211> 345
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (339),(342)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 476
gctaccttgc ttagactata caaaaatgtc ctcagtgttg atccattatg ttcgcgtaaa 60
gaaaaggaaa tcctcgttgg cttcgcatgt ggacatgtct tccacctatc gcacgttcac 120
tcggatgata cctcaacaac ctcggacgga aaccagtccg gaatgcagac cccacgcccg 180
ctgccagaaa ttggcatatc caccctgaat gagctcccgc tgtccatgtc tagcaccgtc 240
ggcgccaagg taaccaccgc gcggctcttg agagatcgga ttggaaatgg ctgccgcatc 300
tgttccctgg ctaaagaaat tgaggcgttg ggtgagtcng anacg 345

<210> 477
<211> 270
<212> DNA
<213> A.fumigatus

<400> 477
ggtggccatg ccaacagcga cttcgctttg aaggaccttg gcggcaccct ggctgatact 60
cgcctgcaag tcgtgttcac gaatcatgcg ggtgaggcct tcccgcagcc cttcgatttc 120
aagtccgctt gggatgcgtc tgacaagttt gatcgggtcg atggacgtgc cagcctcaac 180
aaggagcccg tggatgaagc gtggcttgtc catggagtag ttgagaaggt cttcccaaag 240
atcaggatca tcttgcgact tggcaaatga 270

<210> 478
<211> 882
<212> DNA
<213> A.fumigatus

<400> 478
cgctcaaagt ttcttgttca aaaagtcacc caagtgccgg aacttcccaa catgttattt 60
ggacccattc tattctggca tgatgacgag tcgatgatta cagatgagac agccaaagtg 120
tttttgcgcc acctactcag caagggcaag acgcaagtcc gggatttgcg agtcgagtca 180
gatcagaagc gacgggaagt tgacaacgcc aagcgtgtac gagaaaatgt tcggcaaggg 240

aaggacaatc ggaacgaagt ggaggttgtc cggtccatat ttttcttaca ggaggcgctc 300
catgaggtag agcggaaacg actggctgcc gaggttgaaa cgtcgaccat catatcggtg 360
gtcggcgatt tgtctctagg ggccaagaat cacaatttca agtcacagac gttcaagatc 420
ccaaccaact gcgatctttg cggggagcgc atttggggac tgtcggccaa aggctttgat 480
tgtcgggact gcgggtacac atgccacagc aaatgtcaga tgaaggtacc cgcggagtgt 540
cctggcgaac agaccaagga ggagaagaag aagctgaagg cagagagaca agaacaagcc 600
ggcgccatgc cagcgctcga tatcacacca tcgaacggta cgtcagccgc gccatcactc 660
actcgacaaa atacgatgaa ctctttgagc tccggatatg cggcgagcgc caaccgatcc 720
ttgtcaaatg ttaccagcca accagccagt gcaacagagc ctgctgcacc cgctacaccc 780
gctgcacctg ctgagactaa gcccgccgtg gccgctccga agaggaatcg gattgttgca 840
ccactttcgg gcacagtatg ttaccgctcc agccccaagt ga 882

<210> 479
<211> 408
<212> DNA
<213> A.fumigatus

<400> 479
ctgaggtctc tagatggctc cggatggatg cgcgttcgcg ccgggtcgcg acaaggcctc 60
gttccagctt cgtacgtgga agtattaccg acagcatcgc atgcgcccac ggccagtcct 120
ggaatcacgg atcgaccggg ctccacgtac tcgaactcgt ctgcctcgtt atctggcagt 180
atggcggcca agcgggttgg gcctgcagtc gcccctcgac gaggggcaaa gaaactgcag 240
tacgtcgaag cgctgtatga ctacgaagcg cgcagtgaca tggaatggag catggtggaa 300
ggcgaccggt tcgtgctggt caaccgggac agcggggatg ggtgggccga cgtcgaacgg 360
ggaggggtca ccaaaagcgt acctgcgaac tatatacagg aagtttag 408

<210> 480
<211> 237
<212> DNA
<213> A.fumigatus

<400> 480
cagctgttca ctattctccc tcaagtggtc gctcggatat gccatcccca tgccacggtt 60
tacgagcttt taaccaggat tgtggcgaaa gtagccaatg cttttcctca gcaaggactc 120
tggacagtcc ttgcagttgt caagtcctcc tcgaaggatc gagcttctag aggcatcaat 180
tgtcttcata aaatcactgt aagtgcgcaa aatcaccgca ttgaggtcac atattaa 237

<210> 481
<211> 186
<212> DNA
<213> A.fumigatus

<400> 481
ctaaagaata gttctagctt aagcggtgaa gcctcaaaac ttgtcattga taactacctt 60
cgttcgttgg cgcacgggaa caaatacgtt ttccagtcac tgcccagaat tttgactctt 120
tggttagagc atgctgccac agttgataaa cctttcgacc ctaaaagggg cgataatgag 180
tattga 186

<210> 482
<211> 237
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (119)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 482
ataaagacgc tctctatccc catcttcatt atttttttcat ttcctcgccg ctttggtcaa 60
ttgctgattt gtcaccttgt ttacctaggg atctactgcg ccttcggtcg gagcggtcnc 120
cgccaaaaaa gaacacagcc tcccccgatg aacctctag aaaaaaaggt actggacatg 180
ggcccgatta tgtatgaatg gagcgacaag ttttatggca tgggagaatg taagatg 237

<210> 483
<211> 546
<212> DNA
<213> A.fumigatus

<400> 483
gtcaacggtt tgcagcccac accagccccg tttgaaccag tgatggagat tagcaacccc 60
tttacatgca atgagtcctc tattctatcg gaaatcaaca gcagtagcga acccacaaca 120
tgcaatcctg ttagcaacaa ctttggcggg tctcgggcca gtccgctcca cagggccgtc 180
caaatgggtc acagcaagat cgtccgactt ttgcttgagc ataatgcaaa ctgcaatgaa 240
aaagatagcg atggtctgac accattaata cacgccataa tcggaggata tgaagacatg 300
gtagatatgc tgctgtcgca cggtgccagc attgggctcg tcgacgatga gcatcgatcg 360
gctcttcact gggccgtaat acgtcgccgg gaccgcttgc taacaagggt tttgaagcac 420
tgtgtaggga atagcacctt ggtgaatcaa tgtaccaaag atggaaggac tccgctgctc 480
attgctattg atataggctt tgaagcagct gtagaggtat tgctggaatc gggggcagtt 540
gtgtaa 546

<210> 484
<211> 582
<212> DNA
<213> A.fumigatus

<400> 484
atgttgctgc gggtcagaaa ctcgtcgtgt gcgggcgcac aggcaggtga gtcactgcat 60
agggtacggc ttgtatatcc gaaggctcgg ctcactctac atactagcgg taaaagcacg 120
ctactcctct cgcttctacg gcttctggag ctacaatccg gccagatcga gctcgatggc 180
gttgatatca gccaggtgag actagatatc ctacgacgac ggtgctttgt tgcagtgtct 240
caagaccctt tgttgttgcc gaacgagacc ttgcgcttca acttagaccc ggatgcctca 300
atatcagacg acgccctcgt tgttgcattg aacaaagtgg gattgtggtc ccatttcttt 360
gaaggccaca cgtactttgg gggagaacca gctaccgtca tcaatatccc aggctctaat 420
gaacatccaa tcctcgacca gaaagtctca atatttcagg agctctctgt aaggcagcgt 480
caactgtttg cgctctgtca agcacttgtg aaagtcagct cttttagaac attctggagt 540
gaaaccccgt ggttctcttg gacgagttta catccttcct ag 582

<210> 485
<211> 285
<212> DNA
<213> A.fumigatus

<400> 485
gaccgccaag caagacgtcg actttacgtc ccatggctat gttggtccca tgttcctcta 60
catgttctat ggcttctacg acgcagcttt ccagacgtgc gcatactggt gagtctccac 120
aatggtctct tggggatctt tgttacctcc accgagtttg tgtcggaaac tctgacaact 180
tttaggttta tgggatccct caccaacaac ggtcgtaaac tagcgaactt tgccggtttc 240
tacaagggaa tccaatcggc tggtgctgca ggaatgtggc ggtaa 285

<210> 486
<211> 249

<212> DNA
<213> A.fumigatus

<400> 486
ctggtattgc catcgaagac cgcagggact caactaaggg agagtcagtc acaaagcatg 60
tgtccgcgtc ctaagtcgcc ccttgagaac ttcgattccc ttcaaccgaa catattgacg 120
tgttgtgttg gcgcacagta tgacaacatg atccttcttc atatttgtat tggtcaggac 180
ttttattatt gcatcactgc gtttttggtc atgttccggc tccttcggag gggttggatg 240
tttgaataa 249

<210> 487
<211> 315
<212> DNA
<213> A.fumigatus

<400> 487
agactcaaca ttcgtacccg gtctctcaac agtttactct attggctcat gcagatggtt 60
ggtgcttttg tctttggtaa gcttctggat ctgcaatttc tttctcggtc catgcgagcc 120
aagctcaact ggctcattct ccttgtcatc accatgggtg tctggggtgg tggttatgct 180
tttcagaagc agtataccct tgagaccgcc aagcaagacg tcgactttac gtcccatggc 240
tatgttggtc ccatgttcct ctacatgttc tatggcttct acgacgcagc tttccagacg 300
tgcgcatact ggtga 315

<210> 488
<211> 279
<212> DNA
<213> A.fumigatus

<400> 488
acttgcaagg gcatcctcgt tgacatgtcc gatatttgca gcatggatgc agaaaagacc 60
ccctttatga cccagttcgc ctcctgctgg ggattgctcg ttggcagtct attgattgct 120
tctcccatca tcttcttcaa gatcaaggat cacgtggatg tcgaggagga cctcaagttt 180
tccgacgaaa ccaccgaaga tgtgactggt attgccatcg aagaccgcag ggactcaact 240
aagggagagt cagtcacaaa gcatgtgtcc gcgtcctaa 279

<210> 489
<211> 348
<212> DNA
<213> A.fumigatus

<400> 489
gttgttcccc tccccaccct catccacaac ttctcactct ttactggctg ggaagcgata 60
cgcgagtggc ctgcactgac tgctacattt cagactgcct gtaatgttta tttgattttc 120
tccgccaaca agtccgggga gtactatgga tatgctcgca tgatgtcgcc tatcaaggaa 180
gatgaaaccc tagccctgga gatgcctgtg cgacctgacc atggtcctcc tgagccggtg 240
gaattgcacg tggttccaac tcaggctaca gccacggcgc caacgggacg aattatagat 300
gactctgcgt cttcaccacg gcggctggaa ggacgaacga tacaagcg 348

<210> 490
<211> 213
<212> DNA
<213> A.fumigatus

<400> 490
gtcacttctg tctgtgcctt gtcttgctat tgtgcactgg aagacgtgtt tgagattgat 60
tatttgcctg tttggaagta catgagccgc tttctggacg gccttattcc ttcccaatcc 120

ggccgagcga gacccaatat ttatctccgc actttgaact ttctcgagac cattgagcag 180
catagagatt ggattatcag tcggtctgcc tag 213

<210> 491
<211> 669
<212> DNA
<213> A.fumigatus

<400> 491
ggatcgtgcc ttgtgaggat gagagaaact gaacagaact cgctgaatag gcggcattcg 60
accacgcagc actatcaaac cttcgacact cctcctccaa aatcgcgtgg aagaccgaac 120
tcaggccaat ccgaattgtc aggcggcaac tcgaatctgc aacaacatgg atccggaagc 180
gacgacgaat cgcgatctcc cttgccgaag aagcagatgg cagtgttggc gatgatcgcg 240
ctttgtgaac agacggcact caattcgatc agcccttatc tgcctgatat ggcggcgtcg 300
ttccccggag tcgaatcgca gtcggtgggt atctatgtcg gaacgatcgc ctcggcgttt 360
gcgttagcgc agttcataac caactacttc tggggttggc tgtctgatcg tgtaggacgg 420
aagccggtca ttttgcttgg gaccatcctc actgcagttt gcatgctagc atttggattc 480
tgtaagacgt tatggcaggc catcctggtg caggcgttga tgggcgctgt caatggcaac 540
cagggattgg tgtcaacgtg cctgggagag attaccgaca gaagcaacca gtcgaaagct 600
ttcacttatc tccctgtcct ctacggtatt ggaggtatca ccggacccct tattggcggc 660
ttactattc 669

<210> 492
<211> 387
<212> DNA
<213> A.fumigatus

<400> 492
cacttggaga attccccctg gttcgacggc ggcgtcaaaa tggcctccgt gcacccctgc 60
cgccacgcat ccgtcatgaa gaccctcctc gaccgcgccg acgctgccct caagatacgc 120
cgcgataagc tcaagcaggc tcattcggcg gatcaggcga acaggatcaa ctccgagcgt 180
gggctggagg gcttggtgga cgagacgcgg ggcttatcgc tgaatgagca gcaggggcat 240
tcccccggtg gagatgaatg ggaggtgctg cagcatgatg aggaagacca ggttgctatc 300
cgggttgatc agtacctggt tgtgtttttg aaatttatcg ctagtgtaac gcccgggatt 360
gagcatgact ttaccatggg tgtataa 387

<210> 493
<211> 441
<212> DNA
<213> A.fumigatus

<400> 493
gaatactaca taccggcaga gtcatcgtcc atccatttcc tccgctcgac tctttgtgta 60
ggatgcgctc gtgggtttga ggtagtaagt cttgagacta ctgagacgca gtcccttctg 120
gatcaggcgg atacttcgct tgattttgtc gcacgcaagg agaatgtgaa gccgattcac 180
attgagcgaa tgaacggaga attcttgctc aactacagcg acttctcgtt cttcgtcaac 240
cgaaacgggt ggcgagctcg cccggattgg aagatctcat gggagggcaa ccccaatgca 300
tttgctctat catacgctta tatccttgcc tttgagccaa attttatcga aattcggcac 360
attgagacga gcgagctgat acatatcatg actggaaaga acattcggat gttgcattct 420
tccacaagag aggtgtgttg a 441

<210> 494
<211> 765
<212> DNA
<213> A.fumigatus

<400> 494
cgcaagatcg cccggaatga aggcactctg gcactttggc gtggtcttag tcccacattg 60
atgatgagca ttcctgccaa tgtcatctac tttgccggat acgattggtt acgcgccgat 120
gaaaaaagtc ccatcaaacg gttctttccc gctgcctacg ctcccttagt tgctggctct 180
gtcgcgcgaa ttgccgctgc atcagcgatc agcccgattg agatgtttcg gacgcgtctg 240
caggccactc ccggtacggg tgcagggcat ttcaaggcca cgttggagga tctgcatcaa 300
atgacccagg tgcatggcta tagggctctt tggcgcggat tgaccctcac aatgtggcgc 360
gatgttccat tttctggatt atactggtgg ggatacgagg aatgcaaacg ctatcttctc 420
gatctacgca gggaagccta caaccatcat ctcctgcgtc atgtttcgtc ctctgctctt 480
cagcatgatt tagatacccc gacttttctc gaaagctttc tatctggcgc gttgtcaggt 540
tctctggcgg catttgttac cactcctttt gacgttggca aaacgcgcca gcaggtgttc 600
cgacacatgg gtgatggcgg tccaagcagt ttgcgaggca gcgtagcgcc ggaaacactt 660
cgacctgagc agctgtctct gcctaaattt cttatgcaca tcttccgtga agaaggcatg 720
gcaagccttt tccgcggttg ggttgcgcgt tgcttgaaag tggcg 765

<210> 495
<211> 270
<212> DNA
<213> A.fumigatus

<400> 495
cacacacagc ccgaattggc ccacccatgg gaagtcctcc acgagaaggc cgagctggtc 60
attgcctccc ccaagggagg cgaggcaccg cttgatcccg cctccgtcaa gatgttcgag 120
aacgaccccg tggcctccaa gttcctcaac gagcaaaaat cactgtggac aaacacagtc 180
aagctgtccg atgtgctacc caaggtgtct gagttcgacg caattttcta cgttggtgga 240
catggccgta cgttccctga ttccacttga 270

<210> 496
<211> 252
<212> DNA
<213> A.fumigatus

<400> 496
cgaaaagtag caatgttcga cctcgtcaac gacgagacct ctatcgctct gatcgaagcc 60
ctctccgccg cccggaagcc cattgcggct gtctgccacg gtccgaccgt cctgctcaag 120
gccaaggcgc cgtccggtgt ccctctgctc tcggcctgca ctgtgaacgg tttctccaat 180
accgaagaag aacaaggcgc aaatgtcgtc cgcgaatgca tttatgctgg aagaagaagt 240
tgcaaaaagt ga 252

<210> 497
<211> 543
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (110)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 497
tcagcatcca caacgacggg gtatattact ttacagcttg ccaaactagc aggattaaag 60
gtcatttgcg tggccgatgt agcacggcac ggtgccaaac tcctcgatgn tggagcagac 120
ttcttcgttg accgacacga taccgcaaga gccgcggaga tcatccgcgg cgtaaccaag 180
gaaaggctgc ggtatgctat tgatattgtg ggcaaggaca cggccacgct cttgcagcag 240
acccttgatt ctgctgtgca cgaggatggc tcgcatgcgc atctgctggg gctgactggg 300
ctgccgaaag agagggacag caggatcgtc taccatactg ttccaatcaa actgttccat 360

acctctcctg cagtgggga ggctatggtg acttggctcg aggagctgct acaaaccgag 420
acgattcgat tgccggagat tatactggca gacggaggac tagagggtat caacgcttcc 480
ctggaggcct tgagacaagg aaaggcatct gggaagagaa ttgtcatgaa tttacgacga 540
tag 543

<210> 498
<211> 762
<212> DNA
<213> A.fumigatus

<400> 498
gaaaccggtg cgctgtcgga ttcagagcag cagatcgagc cgggtccacc tgcagcagca 60
cagacataca acgctgatct ggaaggcggg cctgaactgc acgcgctgat gcgcgccgtg 120
gaaatgattg cccggaaacg tcgcgaagaa gaccgcgaag cttctgatac caaaccgtac 180
ctcagtccct tggaatcgta ctttctttcg cagtcagacg tatcaacctc cgcatccagt 240
ttaaattcac aggacccgtc accaataccg gaaaagcttc taaagacaaa ctccgcctcg 300
ccggctgttc ccacgacgtc gaaaacccct ccggttgctc cggttgctcc ggttgctgct 360
ccgcgtatcc gctcgcgtgc acagggcggc tacctctgca cagacctaga cgtatacctc 420
acccatgagc cctgcttatg ttgctccatg ggaatgctcc tctcgcgctt ccgagcggtg 480
atatttcccc ggaagggacg gatggtcacg gggggactag cctcggagcc tgttatctca 540
ccggcgtctg acactgtccc tgaaggcgag cctgaagagt ctgaatcgaa ggcgccaatg 600
gacgagtcgt ccgatccggc aacaaaaagg aaatactacg gtctgcactg gcgcaaggag 660
ctgaactggc gggcgttggg cttcgagttt gtcgagcatg atgatgctga tgaacttgct 720
cggcgtacag aggatcagac cggagttgct tttcatgcat ga 762

<210> 499
<211> 231
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (67),(119)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 499
acaagcatct caacgacctg cgaattcgcg tcagcagtcg tgtttgcgca tgaatatggt 60
attctgnttg cgtcccttca ggatcggcca ttcattccaa cagcccttgt ctccatcgna 120
ggtatccccg agtcggctcg cagcgcattt cgcaaatggg agaaaccgtc tggacaaatg 180
cgtcctcaag tgtttcctct aaacgcggca attgagtcta ttcgctcttg a 231

<210> 500
<211> 519
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (518)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 500
atggaattcc aacaagtcta ttatagtcaa acgatgaacc catctatctc tcgcgagctc 60
aacccccctcg accccgcggt actccgcgcg acgtccgacc atctgcatca cacttgggct 120
aagaccttct actcacgccc cgaattgtat atccgaccgc gatctattgc tgaaatccag 180
aaggtggtga cgctggctcg tcggtgccgt cgtcgcctgg tcaccgtcgg cagcggtcat 240

tcgccgtccg atttaacctg cacttcttcg tggttggtca acctcgacga tttcaatcgc 300
attctacata ttgatcggga gacacatgtt gtgactgtcg aggccggtat acggttgaga 360
gatctcggtc ggcagtttga ggaacatggt ttgacgttgt cgaatttggg cagcattgac 420
agccagtcta ttgcgggtgt catttcaact gggacccatg gcagcttcct tgcgcatggt 480
ctgatctcaa aatgtattat ttcgctgact ctgatgtng 519

<210> 501
<211> 207
<212> DNA
<213> A.fumigatus

<400> 501
atatgtactc gaaattctgg cccaaaggcg gtctcccagg cattctacac cactacgtac 60
gtttcctccc ctcgtacagt gcaacagaca gagtacctaa ccgatctgca atttagacag 120
aaaccctcgt cacatttgaa tacaccacaa ccaccacccg caaaccacac agtctcttct 180
tcgttggcgg tctcggcgat ggcctag 207

<210> 502
<211> 258
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(7),(9),(10),(15),(18),(19),(20),(21),(24),(25),(26),(27),(28),(31),(32),(33),(34),(35),(36),(37),(38),(39),(40),(41),(42),(43),(44),(45),(46),(47),(49),(50),(52),(56),(76),(79),(124),(125),(126),(130),(132),(138),(139),(140),(141),(147),(148),(150),(155),(160),(166),(169)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 502
ttccctncnn ttttnttnnn naannnnntt nnnnnnnnnn nnnnnnntnn cntccntttt 60
ttcccacttt ttttantant tctcttctcc cccccacaag tttataataa cttccctttt 120
tttnnntcan anaattcnnn ntctttnntn tcagntatcn tcttcntcng tctcggtttt 180
ttcttttccc tttttccccg tttcttcccc ggattcggcg gcccttgtgc ccgtggtttt 240
ggtgctgtcc tctcgtga 258

<210> 503
<211> 546
<212> DNA
<213> A.fumigatus

<400> 503
gggtgcagct gtgatcattt ccactaccca gtgacctctt tttacccgtt caggtcagcc 60
acattttgtc gtccccaccg tcgacgtcgg aaattccttc aatctcctct tttattattt 120
aattgctccg ttttggagat acatcaacaa ctaccagaag atatgtctga agttcaaaca 180
cggccttctg cctctcgagg cagggtatcc gctcgtggtg gtcgaggtgg ctatagctcc 240
agaggtggtc gcggaggcag cagatcggcc aaggcagaca cctcagacca gaccacattt 300
gaagatgaag gagaaattgg tcagatgaag aagaaatact cgaacgatct gccgacactg 360
aaggaattgt tccctgactg gaccgatgag gatcttgtct ttgctctgga agatgccgac 420
ggtgtactcg aggatgctgt tgagcgcatt actgaaggta tgatcatgga ttccgtgagt 480
tgtatctcgt acccctacat atgctgctca ctggaattcg ctctaacttt gatcgtccca 540
tcataa 546

<210> 504

<211> 312
<212> DNA
<213> A.fumigatus

<400> 504
aggtatgatc atggattccg tgagttgtat ctcgtacccc tacatatgct gctcactgga 60
attcgctcta actttgatcg tcccatcata acaggcaacg tctcacagtg gggtgaggtg 120
aaaaagaaga cggccgaccg gaatcgctcc aaggccaagg aggctcagag caccccgacc 180
gaggcaacca caagttccgt tcgcacaggc cgtggtcgtg gcggattcga gggtcgtgga 240
cgcgctcgtg gagatcgtgg tcgtggtggc cgtggcgccg tcttcaccac ggggctggaa 300
ggagccgcgc ca 312

<210> 505
<211> 192
<212> DNA
<213> A.fumigatus

<400> 505
aagactccgt attttactgc gaccctgatt aaatatttaa ttattcgaat tttaatttcc 60
ctttttcaat ttgaatttcc attttttggg gccccttttt ctgtgcccgg acttttttca 120
cttaagtatt acttgccttc tttcaaatcc ctccttaatt ccatcttcct tctccatctt 180
ccatctacct aa 192

<210> 506
<211> 195
<212> DNA
<213> A.fumigatus

<400> 506
atgtctctgg gtttcattca ttttgaattg ctgggtgtga caaacttacg tggtttcatc 60
aaccagtggg acgtcttagc gagattgagc aataataatg atgactggca cggagtacag 120
tggaagtggt actccataga ggcagccaag tccgtcttca cccacggggc tccagaagga 180
tccagcgcta aggcg 195

<210> 507
<211> 864
<212> DNA
<213> A.fumigatus

<400> 507
ggggaggggg ttttggagag cgcaagagag cagcttgaag agagaagtgg gccgagccaa 60
aggaaaaacc cgaaaaggga ggcgagggac cgggttgaaa aggagcggca ggaagctaga 120
gcaaagatcg agcgggcgaa ttgccggaag cgaaagctaa ggctgagcgt gaagcagccg 180
aggtcagaga aagggccgag cgagaggccg cggaagccaa gacaaaggca gagcgcgaag 240
cagctgaggc tcgagctcaa agacttgctg ctttggccaa ggaaagagag gctagagcca 300
aagccaaagc cgaaaaagag gccgcagaag caaaagccaa ggccgagaag gaggccgctg 360
agaaagaggc tgccgcaaag gccgctgcta aaaaggaagc cgatgccaaa ttcgccgcgc 420
tcaaggaagc tgctgcgaag aagtatgcgg aaaagaaggc caaagatgcc caggaagccg 480
cagctagaga gcaggcagcg gcggaagcag caagcagcaa atccgcaaca gggtcaacgg 540
ctcccaggac cccgtctcca aaaaagccag cgtatacggg cagtgctcgg acaccaacaa 600
ctgcggacga ggatgatgcc tattcgttcc ggccatacga ccgaccccgc cgaccctatg 660
cgggtacatc aggttcctcg gtctattctg aatcttccta tgcccttcg cagtcgacgg 720
cccggacgac cccgccacct tcaaccagag gcgcctactc gaccaaagat ccggacaaga 780
ttgtcatccg aggcgtttat gccttcaata acgccttcct gcgaagtcct gtggcgcagt 840
tggtctctgg ccaaggggtg gtga 864

<210> 508
<211> 792
<212> DNA
<213> A.fumigatus

<400> 508
agcaaagatc gagcgggcga attgccggaa gcgaaagcta aggctgagcg tgaagcagcc 60
gaggtcagag aaagggccga gcgagaggcc gcggaagcca agacaaaggc agagcgcgaa 120
gcagctgagg ctcgagctca aagacttgct gctttggcca aggaaagaga ggctagagcc 180
aaagccaaag ccgaaaaaga ggccgcagaa gcaaaagcca aggccgagaa ggaggccgct 240
gagaaagagg ctgccgcaaa ggccgctgct aaaaaggaag ccgatgccaa attcgccgcg 300
ctcaaggaag ctgctgcgaa gaagtatgcg gaaaagaagg ccaaagatgc ccaggaagcc 360
gcagctagag agcaggcagc ggcggaagca gcaagcagca aatccgcaac agggtcaacg 420
gctcccagga ccccgtctcc aaaaaagcca gcgtatacgg gcagtgctcg gacaccaaca 480
actgcggacg aggatgatgc ctattcgttc cggccatacg accgaccccg ccgaccctat 540
gcgggtacat caggttcctc ggtctattct gaatcttcct atgccccttc gcagtcgacg 600
gcccggacga ccccgccacc ttcaaccaga ggcgcctact cgaccaaaga tccggacaag 660
attgtcatcc gaggcgttta tgccttcaat aacgccttcc tgcgaagtcc tgtggcgcag 720
ttggtctctg gccaaggggt ggtgacagat gggttggtgt tgcgcagtct tcacccacag 780
ggcgccgaag ga 792

<210> 509
<211> 711
<212> DNA
<213> A.fumigatus

<400> 509
acgcatagtt cggttccttc ggccgctgtg tgtgaagaca agactgcgtt atactttgct 60
gtcgagtcag gggatctcgg caaagttaca gctcttctag agcatcctga tgtagacgtc 120
aatctgcgaa cggacgaact tggtgacggc caatcactgc tccactgcgc agttaatcaa 180
cagtgcgtgg atccagagat tatgaaggct ttactagctc gcccagacat caatgtcagc 240
gctagagatt atagtggccg gactcccctc gctttcgcgg ctttcaatgg ggaagctgaa 300
ctagtgaagc tcctcctgca gcgccatgat gtggatgtat tcccgcagga tagatttgga 360
gacacaccgt tgcttctcgc cgccaaagaa ggagaaattc acattgtgaa tatgctatcg 420
aaggtaccag gtacggacac ttggcacaga aataactggg acaaaacagc gctggggttg 480
gcgggggagt cgggtcacac agaggttatg agacgattgc tcgatccaga cctcaaggca 540
acacgggaaa tcatatgcga tgccatggaa aacacaaaag aggctttgga tgctattcga 600
aggacaccga gaagtgttct tggttccgaa aatgaaagtc ttgcgcagga aagaaagata 660
gaggaagcat acaagctgct ttcggccggt ctaaatagaa caggttcatg a 711

<210> 510
<211> 378
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (334)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 510
ccatatctac acaacaccgg cacccaacat gggtgcctca tcccgatggc atccccgccg 60
ccagtctcaa ccgcaaccgc aaccgcaact ggatcctcgc atcactttcc caatgactcc 120
gtccttaagt atagccacat cggacagacc gagaagtatg tcttctcggc ttttgccggc 180
gtggtctggt acaacgcgat cgagctcatt gtcctctgcc tgaccacctt caaacgctac 240
cgtggttgct acttctggtc ccttcttctc gcttccatca gcctcaccac atacatcctc 300

ggttcttttt cttcttcttt ctctccatgt ccgntacccc ctatggtcgc gtcggcttca 360
tcggtccgag ctggtgcg 378

<210> 511
<211> 609
<212> DNA
<213> A.fumigatus

<400> 511
aacattcttt cctctcacca gcctccatca aacagcccag ctcaggccaa gcacgccgca 60
atcacgataa agaaaagcaa gatgccctcc aaaatcaccg tggcagtcgc ccaagcccgc 120
actcacatag caacacaagc cactctctcc gccctctccc gcatcgccca ccacgcccgc 180
atccgcggcg tgcacctcct cctcttcccc gaggcctatc tgggcggata cccacgtacc 240
tgctccttcg tatgtgcggt gggctcgcgc gccccacacg gccgcgacca gttcctggcc 300
tatttccgct cggcgattga tctcggcgat acccctgcgg gcgccgggga tgattgggtt 360
caacgacggt tgcctgtagc cgaggggcgg agcgagcgcg gcgatgggac gagggaggag 420
atggagcggg tggcgagaga gacgggcgtg tttcttgttg tgggggtgat tgagcgcgcg 480
gggggcagtt tgtattgcgc tgttgtctat gtggatcccc tgcgtgggtg tatcgggaag 540
aggaggaagg ttatgcctgt atccctccct tgttcttttt ctttttcctt ctcttcacgg 600
ttccattga 609

<210> 512
<211> 183
<212> DNA
<213> A.fumigatus

<400> 512
acaggaacag aacgcctcat ctgggcccaa ggctcccct ccaccctcaa agccgtcacc 60
actcacctca acggtgtccc cgtcaccctc gccgcagcga tctgctggga gaactacatg 120
cccctcctga gacagagcct gtacgcccaa aacgtcaata tctatcttgc ccccacggct 180
gac 183

<210> 513
<211> 456
<212> DNA
<213> A.fumigatus

<400> 513
ccttcctcct cttcccgata cacccacgca ggggatccac atagacaaca gcgcaataca 60
aactgccccc cgcgcgctca atcaccccca caacaagaaa cacgcccgtc tctctcgcca 120
cccgctccat ctcctccctc gtcccatcgc cgcgctcgct ccgcccctcg gctacaggca 180
accgtcgttg aacccaatca tccccggcgc ccgcaggggt atcgccgaga tcaatcgccg 240
agcggaaata ggccaggaac tggtcgcggc cgtgtggggc gcgcgagccc accgcacata 300
cgaaggagca ggtacgtggg tatccgccca gataggcctc ggggaagagg aggaggtgca 360
cgccgcggat gcgggcgtgg tgggcgatgc gggagagggc ggagagagtg gcttgtgttg 420
ctatgtgagt gcgggcttgg gcgactgcca cggtga 456

<210> 514
<211> 921
<212> DNA
<213> A.fumigatus

<400> 514
ggagatgttg tcgtggccaa tgaccaccag aacccagaca tcttctgggc tttacgggga 60
gggggtggag gcactttcgg catcgttaca cgtgctacaa tgagggtgca tctcaatagc 120
ccggtctgcg tctcggaggt ggcagtatca ggctcccgga ataactcgtt gctctggaca 180

aaagggatca cgggtctatt ttccattctt cgctcgttca accagcaggg gataccgggc 240
cagtttattc ttcgaccgct atccaaggat caggtcaacg caagtctcac actgtattcc 300
ctaaacacag atgacactcg acgatcggcc gagaacatgc tctccattcg aaatatcctc 360
gaatctacca cccttccctt cactctggcc tccaggtgcc taccaaagat cagtgacgcg 420
ctccgaaaag gacctgatat gcttcccgta aattacggaa tcatcaccgg ctccgttttg 480
gtgtcagagg atctcttcaa ttcggaggaa ggaccactgc atctggccaa gcagttggaa 540
catttcccga tgggaccgat ggatctcctg ttcaccagca acctcggcgg aaacgtttcg 600
gcaaacaccg gaaagaagca cagggatacc tcgatgcatc cgggctggcg gcaagcggcc 660
cacctcatca acttcgtgcg cagtgtgagc acacccacag cgcatgagaa ggccagaagc 720
ttagaagagc ttcatagcgt ccagatgcgg caactgtacg acattgaacc cgacttcaga 780
gtgtcgtaca ggaatttggg cgaccctctg gaaagtgatg ctgcacaggt ctactggggc 840
ccaaattaca agcggctgct ggaaatcaag cgtcttcaca cggggctgga aggtccgacg 900
gtgctcagac aatcaatggg g 921

<210> 515
<211> 405
<212> DNA
<213> A.fumigatus

<400> 515
agcccagaag atgtctgggt tctggtggtc attggccacg acaacatctc cctacacagc 60
catagtgaac ttcagtacaa agacaccata ttgcaagtta tcaaggatgt atctaccaac 120
cttcgccgtc acgacctcaa attcgaggac attatctaca gccagaccgt cgatgaagct 180
gtggaaactg gacactccgc ctccctggag aaaaccgccc gcagcgccca cggtaggaca 240
ctccccccg acgaccaccc atccatcacg ggcacctctt gcatacatct cccccagagt 300
cactccagcg cctacgctca cggctgggcc acggtctata tcggagccga gggcccggaa 360
gttgtcatgt cttcaccacg gggggctggc aggatccgcg ctcag 405

<210> 516
<211> 621
<212> DNA
<213> A.fumigatus

<400> 516
tccttggata gcggtcgaag aataaactgg cccggtatcc cctgctggtt gaacgagcga 60
agaatggaaa atagacccgt gatccctttt gtccagagca acgagttatt ccgggagcct 120
gatactgcca cctccgagac gcagaccggg ctattgagat gcaccctcat tgtagcacgt 180
gtaacgatgc cgaaagtgcc tccacccccc ccccgtaaag cccagaagat gtctgggttc 240
tggtggtcat tggccacgac aacatctccc tacacagcca tagtgaactt cagtacaaag 300
acaccatatt gcaagttatc aaggatgtat ctaccaacct tcgccgtcac gacctcaaat 360
tcgaggacat tatctacagc cagaccgtcg atgaagctgt ggaaactgga cactccgcct 420
ccctggagaa aaccgcccgc agcgcccacg gtaggacact ccccccccgac gaccacccat 480
ccatcacggg cacctcttgc atacatctcc cccagagtca ctccagcgcc tacgctcacg 540
gctgggccac ggtctatatc ggagccgagg gcccggaagt tgtcatgtct tcaccacggg 600
gggctggcag gatccgcgct c 621

<210> 517
<211> 522
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (17)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 517
agagtctcaa ggtcaanaag aagaaagggc gatgcgaagg ggccgtgggc ggagaaggct 60
ggtctgactg ctagccctgc cgaaacgaag cccgccggtc ccgcagctcc agccaaggaa 120
gcggccaaga aggatgactc tcgcatggag atgacccgcg tggtcaccgc ctccaccct 180
gtagacaagg tcaaggagta cctcaagcgt ccttctcaaa agtccaacga cgccatcgtg 240
ggcctcgttc gccccatcat ccaggatgta cgggacggcg gtgatgctgc tgtgctcaag 300
tatactcaca agtttgaaaa ggcgacttct ctgacgtctc ccgtaatccg cgctcccttc 360
ccccccgagc tgatgaagtt gtcgcctgag acccaggaag ccatcgatgt cagcattgcc 420
aatatcaaga agtttcactc cgcccagaag gacagcaatg acgtcctcca ggtggagacg 480
atgcctggag tcgtttgctc gcgcttttct cgcccctatt ga 522

<210> 518
<211> 222
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (95)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 518
acgtgtgggt ctgttactcc cccggtggcc caccctggtg ccgtcccacc ccgccccatg 60
aagctcggtg ttcccccatg gttggcggct gccanaaaaa tgtcctgggg ttcccctccc 120
ccgggccaat gggcgcatcc ccccccgaga attgttctcc ttcccccacc aaatttggaa 180
acccaaaaaa cttgtcctcc ccccggggtt tcccaagccc tg 222

<210> 519
<211> 336
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (279)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 519
acgtggtcct tccagccgcg tggtgaagac aaagaccttc aggcccgcaa agccgatgca 60
ccggccggtt cctacaccgc tagattgttc aacgagccca agctgaccca ggcaaagatc 120
atggaggagg ccgacgagct gtgccgtgcc accaccaagg aggagatcgc gtttgaggct 180
gccgatctac tctactttgc cctgactcgc tgcgtggccg caggagtcag cttggaagat 240
attgaacgta acttggatct gaagagtctc aaggtcaana agaagaaagg gcgatgcgaa 300
ggggccgtgg gcggagaagg ctggtctgac tgctag 336

<210> 520
<211> 420
<212> DNA
<213> A.fumigatus

<400> 520
tcttgcattg gtccaggttt gataccggcg ctggtcaaac aagcaaaagc aaagcgtatt 60
gtacatgtac ataatgaaat gacttgtctt cccaaccaat cacgcaatgg taatgatgta 120
aatcaatcaa cgccacccta tgtacgccag accgactgtc tcgagtctcg agtcgagagt 180
ctcaagatga tctcttcttc ctccgcgcct catcctccct catcatccga atcacctcct 240
cccttctctt ctcaacccga gccaactcct cctctctcgc ccgtcgcctc tcctcatgcg 300

tcgcaaacca ttcctcccgc gcccggtcct cctcttccgg cttcgcatgc gcaaccatac 360
acgagttcat cgccagccgc tgagcccgac atacccaggt ggccgttacc gttcgattaa 420

<210> 521
<211> 198
<212> DNA
<213> A.fumigatus

<400> 521
tgtgaaggat gccacggcgg ccagcagtta aatcttccag ttgtagactt cttttggagt 60
tggtcgatct tcgaccagag caaggatgga cattgtgcta cctatgattt cgggtacgag 120
aactgtcgac gcaatggtac taagggtgac tggaaggtga gaagaaagct gatggaggca 180
tcaactgtat ctaaatag 198

<210> 522
<211> 231
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (76),(191),(200)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 522
acgttaaaaa gagggtacca tactgtattt gccggatatc tcatccataa tattgcagtg 60
tctttctacg taaatngatt gactgtctat gattcctatt tccataacgc tacagatatt 120
ctagttgaag tatgttttca ttatcattat gccacaaggt caggcagaag gcgaagtagg 180
caaagtgcca nttccactan ggccgagacc attccaaaat ttttttgggg a 231

<210> 523
<211> 810
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (711)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 523
cgttgtattg cccactgcga gttgaagacg ggaatgcgtt tggaatttat gaaatttttg 60
ccgaatgacg acgatgacga cgagggtgaa gtgactgtcg tctggacggc ccaccacagc 120
ctgatcgatg gttactccct gggactcatt ctggctcggg tgcagcaggc aagccagggt 180
gtcgcatcct cccgggtctc ttcctttgta gacgcagcgt ggaatctgct gagcgtgcag 240
aagcagagag acaccgaggc acggcggttc tgggagcagt atctgcagcc ggtacggtca 300
ctcacgaaag cagaggcaac cacaacgcct gtagcacggc cgtacctcgc tcaggaggtg 360
ctgttcaagc atgtgggcgg cgtggacgag ttacaccgac tcgcatccag ctgcagtgtc 420
accctagcgg ccgtctacta cacggcgtgg gccatgacga ttgctcggac gaccaagtcc 480
accctggtaa ctctgggagt tgtcttctct ggccgcgaga tcctcccaga cgatgcgcag 540
gccgtcggcc cattgatggc cactctgccc ctggtatgcc gcattgacgg agaagcctcg 600
attgagcgcc agctgcagac cacgttcgaa ggtttggcaa ccattagcac ctacgcatgg 660
tctgccccag atcaaatcgg gtaccgggtc gactctctgc tggcgacgca ntatgatttc 720
ccaacctacg accaacccat ccccgccgca aaagagcagt tcttcgagaa caccaacttt 780
gcgctgagtc tcctggtcga agctgatgct 810

<210> 524
<211> 270
<212> DNA
<213> A.fumigatus

<400> 524
ggaatagatc cagtcctcta taagttctgc attgttaatc ttgtctatat ctctattctt 60
aaacttaagg tctataagag cctttctctc tggcacaata taggagatgt ctggcttaaa 120
acttatcagg ttaccctggt aattttactt aataatataa ttactaatat tcttaaaaaa 180
ctctatatac tcctagttct tagcagccct atacagtttc tttctttcca atctaacttt 240
attactagct ctttaaaact ccctgtatag 270

<210> 525
<211> 501
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (181)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 525
ctcggacaat gggccgcatc acgaaccgat atctttcccc cagaaatgtg caacattatg 60
tcttcgctgc actctcatgc tcctgcgcat tcgttgcatc agactaaaaa gacgataagc 120
aaggctttca atggtctacc attcgaggag atttttgagg agttctacga ggaaccacta 180
ngagttgggg ccattgctca agtatacaga gcaaagctca agccgagttt ggctgtgatg 240
gacgatcagg ctctgacact tgaggacaga agcttccgtg gaaaggtaag gaaagaatgt 300
cgaacgtggt tggtaaagaa ttcgcccggg acggggttcc gtcttcgtac gtggccatta 360
aagtactcca tccaaaaggt tgagcgcgtg atccggaagg gacttgggat tcatgtcttt 420
cttccgcatc atggattaat gccatcccca caatgcactg gttgtcttgg ccggatgagg 480
tacagcagtt tggtgagatg a 501

<210> 526
<211> 735
<212> DNA
<213> A.fumigatus

<400> 526
gcgcgtgatc cggaagggac ttgggattca tgtctttctt ccgcatcatg gattaatgcc 60
atccccacaa tgcactggtt gtcttggccg gatgaggtac agcagtttgg tgagatgatg 120
aaactacaac tggatctcag aattgaggca tccaacgttg tgatctttcg ccagaaattc 180
aaatcacgaa ccaccgcttg gtttccctac ccatacttgg agtataccac gcgtgaagtg 240
ctggtcgaag aattcgctca agggatcccc ttggagactt tcttggatgt tggaggaggt 300
gtctaccagc aagagatcgc aaatgagggt ctggacgcgt tccttcatat gcttctgatc 360
gacaatttcg ttcacgctga tttgcacccg ggaaatataa tggttagatt ttaccaacca 420
gccgagttgg acttatccct cggcaagcgc agtcgggttt cagatgcacc aaccgccgcc 480
gaagctgatg tgactgagac tgtactggcc cggttgaggc cgcacgccca taatcgggag 540
gcctggcacg ctgctctttc ccagctgaat gctgagggtt atcgccccca gctcattttc 600
atcgacactg gcctagtgac ccagctcaac gagaccaacc ggagaaactt cctcgatctg 660
tttcgagcgg tggccgagtt tgacgggttc agagcgggcc agtcgtacac cgaccgggct 720
ggaaggacac gcgat 735

<210> 527
<211> 303
<212> DNA

<213> A.fumigatus

<400> 527
cttcctacgc ttagcgcggc accttcgacc cccgtggtga agaccatgct gaacaagcgc 60
aaccacgttc accacttgga cacgaacaca gatgaagaca tgatccccat cttcacgcac 120
gacgtgaaca acaagtcgcg taacaacaag cgcttgctac cgcgccgaaa ttggtgcgcg 180
atccgagagt atcaacccgg tgagtcgatg tttcgtcctt acgagatatc aatctctctg 240
actgaagata ggctccacac ctccgggttc gccagaatcc gaagaggtcc ctccaccggc 300
tga 303

<210> 528
<211> 279
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (190),(227),(230)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 528
ttcctgcctc ctaagactct cgctcctacg gttgggtttc cacattccag tcgccagctg 60
agactaatcc tggctcggaa aatcttctgc atggccacag atgcggccaa gaaggacatt 120
aaccatggcc ggtccatgct agataacgaa tcctctttaa cgcgccaact gcagtgtgcc 180
tacggactan ggtggttgcc taaaagcatt ccactagggt gccttantan ctggtgttca 240
aagtcccgcc accatctatc tacagtccag agtagatag 279

<210> 529
<211> 198
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (182),(184),(185),(186)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 529
agtgcttatc ggctgaactt tacatgtttg caatcgagac tcagcctcat aaagcagctg 60
ctcgatatcg tgatcattca aggcaccttc ttcaatagaa tgcagtgcaa ctttgccaca 120
tgcttctact tgcatattgt catcacgccc cggggctgga aggagacgcg tcccccaaaa 180
cncnnnaaaa tgggggggc 198

<210> 530
<211> 225
<212> DNA
<213> A.fumigatus

<400> 530
gagcatccag ccaaaatgcc tggaattctc cctatgaaag tgatcaaagt cggcaacggc 60
tctcaaagtc gtatagcaca ggcctgcgat cggtgccgaa gcaaaaagat tcgttgcgat 120
ggaattcgac cgtgttgtac acagtgcgca aatgtcggct tcgagtgcaa gacaagtgac 180
aagcttagcc gtcgagcggt cttcaccacg gggctggaag gaacc 225

<210> 531
<211> 336

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (36),(45),(52),(184)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 531
ttcaatcaga gtggacttgg cgctaaatat ccactntcag tcccnatcgt gncacctccc 60
gttttggtcc tcacgaagat caagagatgg tcgaccttgg ctgaatctac cgttcctcag 120
agcatcaaga aggcagatag cgatattgac gacattgagg tgcttttgaa atggcttgct 180
aganaccaat ttcacataga tttcgagggt tacctggcaa aaccaaagga ggagctgctc 240
tcgggggttc gcaagttgta ccaaatgcat gccgcatttc ggcctttgct tgagactacg 300
ttggacgagg agagctttgc actcattaac aattag 336

<210> 532
<211> 717
<212> DNA
<213> A.fumigatus

<400> 532
cctcccagaa cgaaaagact actctcctgg gcaagaccaa gcaggactac gctgccatcc 60
tccgctggct ctcgttcgtc aacgctgagg tcctccccaa gctcggtgcc tggtaccgcc 120
ctctgctggg ccttgacccc tacaacaaga agaacgttga agatgccgtc aaggctgcca 180
acaaggccct cgccgtcctt gagaagcacc tcactgccaa tacctacctg gttggtgagc 240
gcatcaccct cgccgattac ttcggtgcct ctctcctcac ccgcgctttc gctaccgttt 300
tggacaaggc ttggcgctcc gagaacgttg ccgtcaccag atggtacaac accatcatca 360
accaggctcc tttcaaggcc gtcgtcccca gccctgtctt cgctgaggag gctatcaagt 420
acactcctcc caagaaggag gagaagccca aggctgctcc tgctcctgcc aaggctgctg 480
ctcctgctgc tgagcccgag gcccagcctg agaagaagcc caagcaccct cttgaggctc 540
ttggtaagcc cgagtttgtc cttgatgagt ggaagcgtca gtactccaac gaggacaccc 600
gccccgttgc tctgccctgg ttctggcaga actacaagcc ggaagagtac tctctctatg 660
ctgttgacta caagtacaac aacgagctca agctcacctt catggctaac aacctga 717

<210> 533
<211> 264
<212> DNA
<213> A.fumigatus

<400> 533
ggtggtttcc acgcccgtct tgaggcttcc cgcaagtacc tcttcggtgc tcagtccgtt 60
tacggcgaga actacaactg cgttatccgc ggtgtcttcc ttgtccgtgg tcaggattgg 120
aagcccgcct ttgaggtcgc ccctgactgg gagagctacg acttccgcaa gctcgacccc 180
tccaaccccg aggacaagaa gctcgtcgag gacatgtggg cctgggacac ctccgtcact 240
gtcttcacca cggggctgga aaat 264

<210> 534
<211> 1158
<212> DNA
<213> A.fumigatus

<400> 534
atctctttgg ctaccccgcc tttcggcaga aaatttccca aaatggaatt gacattgttt 60
gatcgttgca aaccaccact ggttccgaat attttgagac tgactggaac aaaagtgacc 120
tcccagaacg aaaagactac tctcctgggc aagaccaagc aggactacgc tgccatcctc 180

cgctggctct cgttcgtcaa cgctgaggtc ctccccaagc tcggtgcctg gtaccgccct 240
ctgctgggcc ttgacccctа caacaagaag aacgttgaag atgccgtcaa ggctgccaac 300
aaggccctcg ccgtccttga gaagcacctc actgccaata cctacctggt tggtgagcgc 360
atcaccctcg ccgattactt cggtgcctct ctcctcaccc gcgctttcgc taccgttttg 420
gacaaggctt ggcgctccga gaacgttgcc gtcaccagat ggtacaacac catcatcaac 480
caggctcctt tcaaggccgt cgtccccagc cctgtcttcg ctgaggaggc tatcaagtac 540
actcctccca agaaggagga gaagcccaag gctgctcctg ctcctgccaa ggctgctgct 600
cctgctgctg agcccgaggc ccagcctgag aagaagccca agcaccctct tgaggctctt 660
ggtaagcccg agtttgtcct tgatgagtgg aagcgtcagt actccaacga ggacacccgc 720
cccgttgctc tgccctggtt ctggcagaac tacaagccgg aagagtactc tctctatgct 780
gttgactaca agtacaacaa cgagctcaag ctcaccttca tggctaacaa cctgatcggt 840
aagattctac ttctttggct tggtcttact ccaccctctg acttttctcc taaggtggtt 900
tccacgcccg tcttgaggct tcccgcaagt acctcttcgg tgctcagtcc gtttacggcg 960
agaactacaa ctgcgttatc cgcggtgtct tccttgtccg tggtcaggat tggaagcccg 1020
cctttgaggt cgcccctgac tgggagagct acgacttccg caagctcgac ccctccaacc 1080
ccgaggacaa gaagctcgtc gaggacatgt gggcctggga cacctccgtc actgtcttca 1140
ccacggggct ggaaaatc 1158

<210> 535
<211> 231
<212> DNA
<213> A.fumigatus

<400> 535
aagttcataa gctcacccag tcgcagagaa tgcaaaatca agcacattgg cgtgtcgtcc 60
gtgacttccg caaccctccg gcgcgcatgc aagatcgcca atgtcgtggc tgtccaaacc 120
gagtattgcg tcttttcacg cgatatcgaa ggcccatctg gcacgaacct cctggctccc 180
tgtctagaac tgggggtggc gcttgtggct tcctgtcccc ttggacgcgg g 231

<210> 536
<211> 252
<212> DNA
<213> A.fumigatus

<400> 536
cctctgattg ctgatcaact ctacctatct agtctctatg gcgacaatga ggagctgttg 60
ggcaagtggt tccgacggac tggaaagcgt gaccagatct ttcttgcgac caaattcggc 120
tttgttcagg gaggaaaacc ccacgagatc aacagctctg ccgaatattg caagaaagct 180
tgtgaagcga gcctcaaaag attgggggtc gattcgattg acctttgttc gcaccttaac 240
cccgcctact ga 252

<210> 537
<211> 267
<212> DNA
<213> A.fumigatus

<400> 537
gaccaaagtt cttgtgggca ggaggggaaa ggggaacttc cccatcaaaa tcttcggagg 60
gaggtggggg ccataccccg ttcttccatc ccgttggtgt ggacgtacat gaacactacc 120
gtggatcaaa cgcccaatct ggatccggat ttcgataaga acgacttcaa ggctcccatg 180
gctggctttg ggtacggatt gccaatcagt cgcttgtatg ctcggtactt tggtggtgat 240
ctcaagttga tcagtatgga agggtaa 267

<210> 538
<211> 207
<212> DNA

<213> A.fumigatus

<400> 538
cgagaacctc gttatgatgg gaaatctagc ctgcctcaat tatcttatta taatgagttt 60
ttactactcc cactcgatat aagactaata aatgagggtt ggttattaga aacctatcaa 120
gtctctcaga acgggctgtg gagggtttcg gttctaaatg accgaaccgc tgattcgatc 180
tcccaggaaa caattagatt gtactag 207

<210> 539
<211> 189
<212> DNA
<213> A.fumigatus

<400> 539
tattctaaat gcgcgttgtg cacccgtcag ggtcgtttat gtaaaaagga tttccatacc 60
aaaaaggagt gggatttact taaaagggct gaaaagaaaa ttgcttctga actttctgtg 120
actaataata aattagaact cttatatcct gaacttcaac agctgcaaga gcacttagag 180
aagatttag 189

<210> 540
<211> 921
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (907)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 540
agcgcggatc agtcgctcaa cgtcattgaa tcacagctca tgccgtacaa gcatcaccgg 60
gttctcttca ttgacaaggg ccagaacggt cttcaggcgg agaacatcat caagatgctg 120
aagcagctcg agctggagcc tatagtagtg agggacgaag atcatgttcc accaccagaa 180
attcaggatc cgtcaggcaa agagtcgggt cacgcgtacg atgttataat cgtggattca 240
gtggacacgg ctcgcttatt gcggacctat gatgatttca aatacgtccc cattgtctta 300
gtctgtcccc ttgtttgtgt gagcttgaag tcagcactgg atcttggtat cagttcctac 360
atgaccacac cgtgtcaacc aatagacctc ggaaatggta tgctcccagc tctggaagga 420
cgatctacgc caatcaccac cgatcattcc cgctcatttg atattctgct tgcggaggac 480
aatgacgtga accagaaatt agcagtcaag atcttagaga agcacaacca taacgtctcg 540
gtcgtgggca acggattaga agcggtggag gccgttaaga agcgtcgcta cgatgttatc 600
ttgatggatg tacagatgcc tgtcatgggc ggcttcgaag ccactggtaa gattcgtgaa 660
tatgagcgag aggccgggct ttctcgcaca cctatcattg cactcactgc gcatgccatg 720
ctgggcgatc gcgaaaagtg tatacaggct cagatggatg agtacttgtc aaaacctctg 780
aaacagaatc agatgatgca gacaatcctc aaatgcgcaa ccctaggcgg ttccctacta 840
gagaagagta aggaatcccg actttccagc agtggcgaaa ttcaccacca ctctgaaggc 900
aagcgtnctg gtatggagac a 921

<210> 541
<211> 300
<212> DNA
<213> A.fumigatus

<400> 541
cttcatccaa aaacagcaac aatggtgaga aaggtggtcg ttgtgactgg gagtgcgtca 60
gggatgggcc tcgcaacagc caccagtctt gctagtagtg gagcccatct tgctctctgg 120
gatatcaaca gcagcaagct taaagaaatc gcgaagtcct tcaaagccca atattcgggg 180

aagatactgg ctcaaactgt cgacgtgtcg gaccgctctg ctgtcaaggc cgccttgata 240
gaggcacagc atcacctcgg ccccattaat gcaattgcaa actttgaggg gctcgtctaa 300

<210> 542
<211> 339
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (256)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 542
gcctcgccag tttgtcccgc ttttgacgat gcgaatgtct ccggccactt ggtcgactac 60
gccattggac acaatgtcct cgttcctcgt accctgttgg attatctcag agtcctcttc 120
ggtgtccccg tggaagcgat gcaggacctc gtgatcgtga cccccgagaa tcagatcgac 180
tttggcaatc ccgtgtgcgg cattatttgc tattctgata tcctccgcaa gccgcgagtg 240
agagatcgcg atcacnaagt cacaaccttc attaagacgc aagtgtctcg caagctcctg 300
agcgaccatg gcgggatcct tgatgtacaa cgggggtaa 339

<210> 543
<211> 513
<212> DNA
<213> A.fumigatus

<400> 543
gcattttccc ttcaatgcgt tttgcgtttc cattggctga ctagagccaa ggtgtccacc 60
tggaatctta tcttcgaaat gttgtgcggt tcacaccctt tctgggacag tggctcgccc 120
gtcaagatct acgagaacat tctccgcggc cgtgtcaagt acccgcccta tcttcaccca 180
gacgccgtcg acttgctctc gcagctcatc acagcggatt tgacaaagcg actgggcaac 240
cttcatggag gttccgaaga tgtgaagaac caccttggt ttgcggaagt cacctgggat 300
cgtcttgcaa gaaaggacat tgatgctcct tatgttcctc ctatccgtgg aggtcagggt 360
gatgccagcc aatacgatcg gtatcccgag gagactgaac aatacggtca gcagggcgaa 420
gatgtgtatg tgttccagtt gcgaatcatt ctcgatcaga gtactaaccg aaactcttgc 480
tacaggcatg gccatctttt cccagacttc tag 513

<210> 544
<211> 366
<212> DNA
<213> A.fumigatus

<400> 544
ctccaccgcg gatccttcca gccccgtggt gaagacattt tgattatgga gctttcaagt 60
ggagagcatg ctgtaagtac tagcggcatt ttgtacgatg agggattcaa aggatacact 120
ccacctctc actactcact ggaggtatac atctcctctg atgcagacat gctgatgcac 180
tgtacatggt cattggagga tagcaaagtt gtcaggggtc cagaagcaca ttctcatacg 240
actgtacaac ctgtacgacc ggtccgaata accacagggc gacagacaag ccttgacaag 300
agatcttggc ggtctcacca ctttactcgg ctattcggca aatcgatgct agcaatcact 360
agctga 366

<210> 545
<211> 414
<212> DNA
<213> A.fumigatus

<400> 545
ctgagaatgt tgatgttccc accacaaaca aggccttcgt gcctcttggt aagtaccata 60
tctccaagct catcaatggt ccgaagtatg aatactaata cttccgtaga aaacaaccca 120
gaagtcatgt cccaccttgt ccaccaactg ggcctcccac ccacactcgg cttcacagac 180
gtctactcaa tcgacgagcc cgacctcctc gccctcgtcc cccggccctc acacgctctc 240
ctcctcgttt tccctattac tccatcctac gaagcctccc gagtcgctga agacgggccc 300
ttacccgaat acaacggctc cggccccgga gagccagtaa tgtggtttaa gcagacgatc 360
cgcaacgcct gcgggctgat cggactcctg cacgccgttg caaacggcga aacg 414

<210> 546
<211> 582
<212> DNA
<213> A.fumigatus

<400> 546
ccctcgatag atatatatca gcccctagac tgtgaggaat tattctccgt tcactttctc 60
ctcaagctca agtgcaaata caaggatacg atcatgggat ccccgcgact cctctctcgt 120
acaccattga cctcaatcct tcgtctcccc atccagacta ccaacggagc aaacctcatc 180
cctcgcaccc tgtcaagagt acatagatct tttatttcct cccagactaa agcggcacca 240
ctcaagatgt ccaacaccga cacgctcatt gagctagcca aagcccgccg cacaatctac 300
aaactcggaa agaacagccc cgtccccgac tccaagatcg aagaggtcgt caacgcagct 360
atccagcacg tccccagctc tttcaacacc cagtctacgc ggctcgtggt cctcctgcac 420
gccgagcacg agcgcctctg ggagattgtc attgacacct tcatgcagct cgttcaaagc 480
ggcgccgtgc ccgagacgac atggaagatc cagacgctgc ctaaactaca ggggatgaac 540
aatggtgtcg ggacggtatg tctctgtgtc gagagtcttt ga 582

<210> 547
<211> 192
<212> DNA
<213> A.fumigatus

<400> 547
atccttgaag ctaacccatc gctacagatc cttttctacg aagacccagc acacatcaag 60
cccttctccg agaaattcgc aacctacaag gattacttcc agccttgggg cggagcactc 120
gaacgccctg caccagtact tccgtacgtt cctcctcccc cggtatcagc tgcaatccgt 180
gctcgggcat aa 192

<210> 548
<211> 261
<212> DNA
<213> A.fumigatus

<400> 548
acaccagtca accttgagtg ggtagggcga tgcaaggaac gaaagggcgg cgacttccac 60
atgatctatc aacccatgag tctgccgcat acaactgata tctgctgtga cgctgctgac 120
ctagggcttg aatatttggg actgacatat tcctacccac aacgtagatt tgacactcag 180
ccaggttgct cgcaggcaac ggaaattgat gcaaacacaa tagatctaca ttggttctta 240
cgcgcgagac cggggagata g 261

<210> 549
<211> 381
<212> DNA
<213> A.fumigatus

<400> 549
cttcatcgtc agacacccca tgaaatcctt cccaaactat ttgggacact ccgcgagcgc 60

tacgccgaac gtcggggtgg ctacacacga gttctgcgga tcgagcctaa gaaagatgat 120
caagccccta gcgccattct cgagcttgtc gatggaccga aggatatgcg atttgccatg 180
acagcccgga ccgttgcgag acagcgagca cagggcctcg agactctcaa cgagctaaca 240
accctgaatg tccacaaagt gacaaggttc cggaaaggcg gtgtcgaaga cctcgaaaag 300
gcgatcaagc ggttagaaat cgaacagaag aaagccccta cgacgcataa aggcgaaaaa 360
gaggtggagt ctaagcaata g 381

<210> 550
<211> 876
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (848)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 550
gggcgagggg aatcgttgga aggagaatgg gagaacgttg gaagccggtc ggagggaatt 60
cgcaacaaga ataatggtgc ccctggaaga aatgtggaat gtgttagacg tatctcccgg 120
aaaggaaccc cagctgtgga tcccgggagg agattgcctt acaatgaagc gcacctttg 180
gtgtggagaa ctcgatcaat ggctcgctgg cgcgatcgtc tggctaccgc taagaatgcc 240
aacgaaatgt gccgtgtatt ttcaaagttc aatgctctcc ttgttcgtcc aaagatacga 300
ggtgcgattg gcgaatatca aactcaactt atcgagaatg tcaaacagga tatttccgcc 360
ttgcacgagc gcttcaaaca gcagtatggc cactcagagg cacatgctat ggcacagtta 420
catgacctgc cccctgtgtc aggtgcgatt gtctgggccc gccagatcga gcggcaactc 480
gacggttata tgcgaaaggt cgaggacgtt cttggagaag attggcatct tcactccgaa 540
ggtcagaaac tccaagcaga gagcaatctc ttccggaaga agctggatac gcggcccgtt 600
tttgaatcgt ggctgcatga tgtgcaaagg cgtcacatca ccattgctgg ccgactgttt 660
aatgtgacgc gcaaccgcgc cgcagggaac agccttgagc tctccgtcaa cttcgatgcc 720
caaattatcg ccttgttcaa ggaagtcaga aatctcatct ggcttaattt ccaagttcca 780
catgcagtca gcagtatctc aaaagaggct aaacgtgttt atccatacgc catcagtcct 840
gatggatntt caccgacggg ccagatcagc gtagcg 876

<210> 551
<211> 201
<212> DNA
<213> A.fumigatus

<400> 551
ctaacgacta catttagttc catgtgtctg gaagatgtca atggcaccga tctaatgcac 60
gtgctctcct gtcgccatgt gtatcacgca cactgcctgg agcagtggtt ccttgggcgt 120
cacttttcgt gtcctctatg taaccgatcc ttcttcgaag aggtggagcc ggggcccgag 180
ccggggcccg ataacgtcta g 201

<210> 552
<211> 204
<212> DNA
<213> A.fumigatus

<400> 552
agagggattt tcgtacaagt gcgccgaaat gcagctcgta cgtcggcctc aactgttgta 60
aaagaaacca agcagcactc cgacacggaa atgctgcaga agctcgagag tatctgcccc 120
accaaaccgt atgacgaatg ggtcgaacac actcagactg agcaggactt gtctgatcgg 180
tcttcggcgc atttcacatg gtag 204

<210> 553
<211> 306
<212> DNA
<213> A.fumigatus

<400> 553
aagtgttggc tcagtatccc cggcctgatt tacctggtcg cagtgcctat gtggccacgc 60
gcacgacggt tcggcaacgt ctatgccttc gctacggtcg actgtttata cgccattctg 120
tggttctcgg cgtggatctg cgtcgcaagc tatgtcgcac agggaaaggc cgagggcaag 180
agcaacagtg acaacgataa gaataaagat gacaagaaga gtggctgcga cgcatggaag 240
tacggaaacg ccagcaaatg caagattagt acggcaactg tgattctggg ggttgtgatc 300
ttgtag 306

<210> 554
<211> 483
<212> DNA
<213> A.fumigatus

<400> 554
gtttcctccc ccattttggt atttcgcacg aaatttttgt taatgagcct tgtttgcagc 60
cttctgtttg ttgcgaccgc ttggatgtcc ttccgcaacg tcatgcattt ccgccgaact 120
ggtacccttc ccgatgctgt ttccgatcct acgttcgcgg cccagagcaa ggcggctttc 180
tcctcgaacc ctgcgcacga ctttgacgaa gaggaggatg atttccgctc cggacgtgct 240
ggaatgggcg cttctgttcg taatgatcag gacgaggatt acgctttact tcaccaaagc 300
gaggtagacg atctcggaaa tggcaacgga cgtactgcaa tgcatggtgc ctatgatccc 360
actgctacta ccggatcagg gagtgtgcta catgactata acaccagtta tggcggcgcg 420
cacgggcaac actatgcaca accgtctgaa ttcggttcta ccctgagtgg ttatggacgt 480
taa 483

<210> 555
<211> 273
<212> DNA
<213> A.fumigatus

<400> 555
acctggagac ttcttcaaag ccggcatggg tttccccact ggcttatgcc tgaatcacat 60
tgccgctcat tggaccccaa atccacgcga gaaggacgtc attttagaca agggggatgt 120
cctcaaggta gactttggtg tgcatgtgaa tggtcgcatg ttgattcggc atttaccgtc 180
gcttttgacg accagtatga taatcttctt actgcagtga gggaggcaac caataccggc 240
atcaaggtat gtctgtccat gcaagaactt tga 273

<210> 556
<211> 882
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (406)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 556
cttttatact ctcccaaaca acaaccgaca gcaacgctaa ttcatccttc ccttacagcc 60
tccaactgca atgagctcaa gccagccaat cccgaccctc agatctctca aaatggctcg 120
ggatcagccg atttggatcg cggagtcatt ggtgatgatg atgacgacga ggatgccgaa 180
gaaaatgggg tgaacaccga gactcccaat gttggtaagc tcaaccaacc acccttccca 240

aatttggatc aagtgcatgt aaccaccact gacggtctat gcataacaga aaaaaagaag 300
aaacgtaaaa agtccaacaa gaagaagaag aagaagacca agtcgggagc ccttccggcg 360
acggagctca agcaaactag cccaccgcgt gtgctggtct cgactntgtt cccttcggag 420
tatccagtag gagaactcgt cccatacgac tgtacggcgc gcacgaccga tgaagagttg 480
cgctacaact cgcgtctttg ggacgacgac ttcctccccg attaccgcca ggctgccgaa 540
atccatcgcc aggtccgcca atatgcgcag aaagagctta tcaagccggg agccactctc 600
ctatcaatcg ccgagggtat cgaagccggt gttcgtgcgc tttccggcca tcagggactt 660
gaacctggag acttcttcaa agccggcatg ggtttcccca ctggcttatg cctgaatcac 720
attgccgctc attggacccc aaatccacgc gagaaggacg tcattttaga caaggggat 780
gtcctcaagg tagactttgg tgtgcatgtg aatggtcgca tgttgattcg gcatttaccg 840
tcgcttttga cgaccagtat gataatcttc ttactgcagt ga 882

<210> 557
<211> 243
<212> DNA
<213> A.fumigatus

<400> 557
atcccttcat tagcggtcgt ccgctattta ctgacaacca tctacgcttg ggatgttgca 60
caccctgcat ccttcatgga ctcttgtatg acaagccgct attacggtac cattgcccta 120
actatctttc taaaggagga gcttagttgc ctccgagtcg gccaaattat gcagcacatt 180
tgccagcgga taaataagcg caccattcac aggctgctca cttttgtcat ccttgttatt 240
taa 243

<210> 558
<211> 534
<212> DNA
<213> A.fumigatus

<400> 558
tctgccctgg cttgctaccc ccgtatcaaa aattttcacg gtcggtcgca gggatcaggc 60
tgcttgggct tcttgccttc tcttgtcctg gattcctcat ctaggatccc catgtctgat 120
tgcgcctcat cagcgtcatt ccgagcaggg cctccttcac catcatctcc cgcttccggg 180
tcattgaaag agaaccatcc accatatata tcctctgaac actttccaca gactccgaca 240
tctcctccgt tgatgtcggt aagcgcttct aactatgcca ccaatatcgc atcctcccaa 300
cctcccagcc aggcgacgtc acaacctgcg aacctttcat cccctccgtc ctcagctcca 360
atgtctacac agacctcaca gcagccgacg ctagggccca cgaattcttt tcctacaccg 420
gccagcagtg tgagcggcca cttcatggga ccaacttccg tcgaagattc agagcacgtg 480
ggaacatcat tggggtcttc accacggggc tggaaggatc cgcggggatg ctat 534

<210> 559
<211> 675
<212> DNA
<213> A.fumigatus

<400> 559
gaaatcaacg gtcagaatgg ggtcccacga gataccagca tgaacttcat gcaggatcac 60
tccggtgctg gcatttctat gagccatccc ggccatatgt cgcagatgta ttccaacact 120
cctgaagggg ctccgatgca cagccccttc atccacagtt tcaattatga tcatttccgc 180
ggtctgaacc agcaacaaca caatccctcc catctccagg gttcccattt cgagcagagc 240
tacgtcaact ccaaggcacg cccgagtcta caggcgatcg accgcacatc ttccgatgga 300
cgcagcccca tgacccctaa aactccagct ttgggtgccc tgactcttgg aactccggaa 360
tctggtagtt tccctacaca accgatccgt actggattgc aaccacggca tcagaagact 420
ctgtccaacc agtgggatgg caccccccgga agcgcccact ccttcggtat ggagtccccc 480
atttcgtcgc cgggccatcc ctctcatcat gccgctatct cggagatcct caagtctggc 540
aagcatgcct ctttgccagc caaggttgat acacacattc cgggaagcgc ccaggattta 600

gaatcacaag aagcaaagcg tcggcgccga agagtcttca cgcggttgcg agaggcgtct 660
ggatgcaaat cgaag 675

<210> 560
<211> 381
<212> DNA
<213> A.fumigatus

<400> 560
cttcggcaga tcataaaaac aatgtccacc ccgcgaattg agcactacac gacggatgtt 60
cacgcccact gggaagggat ccatccgcag gattgggctg aggtcgatct aatcggatac 120
gagaatgcca tggataagat gtatcggacg ttgtgtgaaa atccggatgc tgctctagtc 180
caagttggcc ataggtcgaa actgctcaat gatcatggct ctgactatcg gttcaatgga 240
aaatttacaa gcgagcagac taaaccagag cgcagtcacc atgactataa ccattttggc 300
aagttgatga aatgggaagg cgatcgttgg tacaagtatg atttcgaagt ggaagtgaca 360
gatcacacca gatctgaatg a 381

<210> 561
<211> 228
<212> DNA
<213> A.fumigatus

<400> 561
gaatcatatg attcacactc taacaccaga catgacatca tgatattatt acatccagaa 60
gaacaatttg cccaacagtt taataatttg gaaactccat atctaagtcg cctccccttc 120
tcaaggctga aaaatccttt gtacttttac cctatacaaa acagcaatta tatctcctca 180
caggcaaccg cctacctagt tggaaatagt gacttcggca gatcataa 228

<210> 562
<211> 537
<212> DNA
<213> A.fumigatus

<400> 562
cgcggatcct tcgaccccca gtgggtgaag acgacgttgc tcaacatctg gaatcaatgg 60
gtggattcgg acttcagcta catctgggcg cgcgagaatt tcctccagca gcgaagcctg 120
acacgtgcgc gagacgtgcg cgatcagctg gcgaagcttt gcgaccgcgt cgaggtcacc 180
atcagcacat gcggatcgaa caactacgtt cccatccaga aggcgattac ggccggcttc 240
ttcccgaacg cggcacgact gcagcgcggc ggcgacagct accggacggt caagaacggc 300
cagacggtct atctccaccc atcgagcacc ctgttcgagg tcaacccccg ctgggtgatc 360
tactacgaac tcgtcctgac gagcaaggag tacatgcgca gcaacatgcc tctgcagcca 420
gagtggctgg tcgaggttgc gccgcattac tacaagaaga aggacctgga gacgctgggg 480
ctggaccgca aagtccccaa gggacagggt gcagccggcg agaagagcaa ggattaa 537

<210> 563
<211> 897
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (18),(190)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 563
gcattttctt tttgcagntc accaacccga ggaggtgaac ttgaccaagt agcattccac 60

agcataatgg cagcattctt agggggggaat caacacagac atccttcatc aggcgccaag 120
ttgtatcatt cgccctcaga tctcgaatcc gactcagaca gtgaggacga cacggcaggc 180
acgcgatttn ttgagcatca ccgcggacga agcagtacac agatgaagaa caagagtcgc 240
acggtttcca aacgtcgctt taaaccgagt ttgaccctcg cgaccggcac gcagaacggc 300
tctgctggcg gcgagatgaa ctctaatatc gagatgcgca agagggatac ctccctcgaa 360
tcatcgggtg ggcgggcctc acgcttgatg gcccggcaga gcttctcctt gaacgatgac 420
cccccgatca ctccacagac tccagctatg gcaacgacta gtttcgccaa cctgccttcc 480
tccgaccgaa ggaatttttt gctattgtgt gttctatatt tcctgcaggg agtccctatg 540
ggattagcta caggatctgt cccgttcctg ctcaaaccat acctttccta cggtcagatc 600
ggcgttttct cgttagcgtc ttacccttat tccttgaagc ttctctggag tccgattgtc 660
gatgcagtat ggagtcagag gttcgggaga cggaagagct ggatcacacc tgtccaagtc 720
attgcgggcc tggcgatgat ctatctgggt ggacacattg aggagatgat ggtaaaggcc 780
ggtgccaatg gtggtgctgg cgtctggaat tttacgtatt ggtggttcct gctcgtcttt 840
ttctgcgcca cccaggatat tgcggtggac ggctgggcgt cttcaccgcg gggttgc 897

<210> 564
<211> 426
<212> DNA
<213> A.fumigatus

<400> 564
aatataaatg agcatatagt taccaatgct atctacgcgt ttgatttggg taatattatg 60
gagccgctgg tttcattctg gcagcgactc ttgcttaaca gtgaccgata tgtttatgac 120
aaaattggcg cgggtgacga ccctgatgat gatgaaagtg atttcaaggc cgtggagttt 180
agtgaccttg aggacgcctt actctttgag ccagatcctg aagagaagta tgcgtgctgg 240
gatgtcaagt atattagaag gctttttgga tttgaaacaa tccagcatgc tccggcctgg 300
caggagctag gaaaagtgag aatgcctccc ggtcgcttga tttctttccc caatgccttt 360
cagtaccgca tgggtccgtt agagcttcag gataagacta agccgggaca ctgtcgtttc 420
ctgaat 426

<210> 565
<211> 270
<212> DNA
<213> A.fumigatus

<400> 565
gactgtttat ggggtaatag tccgttagac gcgttccaag taagactgtg gcagaccttc 60
ttcattggta aaattggagc tgagatcatc accttattca gcctcacaat aactcatctc 120
aacaacatcc actctttctc agttttcgac atagccacaa atattgactc aagagcgccg 180
tgccccgaag gatgcaaggc acaagtgcac ttcgactgtc tgctgaaggt actgtggatg 240
ttccttttta ctccttccaa caatgagtga 270

<210> 566
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (95)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 566
agaaggtctg ccacagtctt acttggaacg cgtctaacgg actattaccc cataaacagt 60
ctcactgact gggttccgat tgtccctgta cattntataa tcctcgctca aaccacgctt 120
tctttcagtg tttttcgacc cattgtcaat actttctctg acgcacacag ctctgaaatc 180

gatagcctaa ctgctgttcc ccttgttaag gcttccctca ttgccgcgcg gactccaaaa 240
ccactgtga 249

<210> 567
<211> 1137
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (614)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 567
acgccatgcc cggattcttc caggctcgtt tgtgaagacg ccaaggccct atgcgtcaag 60
ccttctcttc tgttgctgga cgaccccacc gctcacttgg atctcgaggc ctgtgtgtgg 120
ctggaagatt acctgaagaa gtgggagcgc actctggtgc ttgtttctca ctctcaggat 180
ttcttgaatg gtgtctgcac caacatgatc gacatgcgca tgaagcagct cctctactac 240
ggtggtaact acgattcgta ccacaagact cgcagcgaac aggagaccaa ccagatgaag 300
gcctaccaca agcagcagga ggaaatcgct cacatcaaga agttcattgc ttctgccggt 360
acctacgcca acttggtccg acaggctaag tctcgccaga agattctgga caagatggag 420
gctgaaggct tcattcaacc tgttatcccc gacagagtct tctccttccg tttcgctgat 480
gtcgagaagc tccctcctcc cgtcctgtcc ttcgatgatg tttcgttctc ttactctggc 540
agctgggacg acaccctgta cgagcacctt gactttggtg ttgacatgga ctcgcgaact 600
gccctggtcg gccncaatgg tgtcggcaag tctactctcc tccgtctgat gaccggaaaa 660
ctccagccca ttgccggtcg tgtcagccgt cacactcact tgaagctcgg tatgtacagt 720
cagcactctg ctgaacagct cgacttgacc aagtcggcac tcgactttgt tcgtgacaag 780
ttccccgaga agagtcagga ctaccagtac tggcgtcagc agctcggtcg ctatggtctg 840
agcggtgaat cccagactgc cctcatgggt actctgtccg aagggcagaa gagtcgtatc 900
gtcttcgctc tgctggccat cgagtgcccg aacatgattc tgctggacga acctaccaac 960
ggtctcgata ttcccaccat cgacagtttg gcggatgcca tcaacgcctt cagcggtggt 1020
gtcgtcgtcg tgtcccacga cttccgtctc ctcgacaaga tcgccaagga catcatggtg 1080
tgcgagaaca agaccatgtc ttcaccacgg ggctggaagg tgccgacagt agtctga 1137

<210> 568
<211> 1053
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (488)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 568
agacatggtc ttgttctcgc acaccatgat gtccttggcg atcttgtcga ggagacggaa 60
gtcgtgggac acgacgacga caccaccgct gaaggcgttg atggcatccg ccaaactgtc 120
gatggtggga atatcgagac cgttggtagg ttcgtccagc agaatcatgt tcgggcactc 180
gatggccagc agagcgaaga cgatacgact cttctgccct tcggacagag tacccatgag 240
ggcagtctgg gattcaccgc tcagaccata gcgaccgagc tgctgacgcc agtactggta 300
gtcctgactc ttctcgggga acttgtcacg aacaaagtcg agtgccgact tggtcaagtc 360
gagctgttca gcagagtgct gactgtacat accgagcttc aagtgagtgt gacggctgac 420
acgaccggca atgggctgga gttttccggt catcagacgg aggagagtag acttgccgac 480
accattgngg ccgaccaggg cagttcgcga gtccatgtca acaccaaagt caaggtgctc 540
gtacagggtg tcgtcccagc tgccagagta agagaacgaa acatcatcga aggacaggac 600
gggaggaggg agcttctcga catcagcgaa acggaaggag aagactctgt cggggataac 660

aggttgaatg aagccttcag cctccatctt gtccagaatc ttctggcgag acttagcctg 720
tcggaccaag ttggcgtagg taccggcaga agcaatgaac ttcttgatgt gagcgatttc 780
ctcctgctgc ttgtggtagg ccttcatctg gttggtctcc tgttcgctgc gagtcttgtg 840
gtacgaatcg tagttaccac cgtagtagag gagctgcttc atgcgcatgt cgatcatgtt 900
ggtgcagaca ccattcaaga aatcctgaga gtgagaaaca agcaccagag tgcgctccca 960
cttcttcagg taatcttcca gccacacaca ggcctcgaga tccaagtgag cggtggggtc 1020
gtccagcaac agaagagaag gcttgacgca tag 1053

<210> 569
<211> 327
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (165),(286),(299)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 569
gaaccaattc tacccatccc ccacgatcct acagtcccag gcatgaaccg ccgaaactcc 60
tgggttcaac ggcgaagaac ggtggatcag tggaagcagc gcttctccca gcttcgcgag 120
gaatctaccc ggtatgtcta tcgcccagac accggttgtt gtctntacgg gtacccttt 180
acctacaatg gcgcccggga aatcctgggc ttcgttgtcc gtggaacacc tgggatgttc 240
ccgtggaata acgccctggg ccaacttgtg tggaggcacg gaatcncccc caaattcang 300
tgttatgcgc cccaacccga atcttaa 327

<210> 570
<211> 456
<212> DNA
<213> A.fumigatus

<400> 570
tgtgtatgtg ccattgctta cggacaccct ctcgtccttg ctgataggaa gatatggcac 60
aatcctgtcc atgaacgtga tgagtccaac gagtcagaaa cagcgaagac atgcttcaag 120
ttcctggatt tgacaagccg gagcttcagc gcggtgatca aggagcttca ccctgagctg 180
gtgcttccca tgtgcatttt ctacctgaca ctccgtgggc tggacaccat cgaagatgac 240
accctaattc ctttgaagac taaaggaccc cctcttcggg gattcaaaga ccttcttgaa 300
caggaatgct ggaacttcac gggtaacccg cccggaagaa aaaggcccgt gaactgctgg 360
ttcaatttcc ccaatgtcca taaccccagt caaaaaaatg gaaccccttgc ctcaaggccc 420
gtattcaagg atttccccgg aaaaaaaggg ccaatg 456

<210> 571
<211> 228
<212> DNA
<213> A.fumigatus

<400> 571
ttctttcgca ttgccgagca tggtccatgg cgaaagagcg acactgtgtc gctagggatt 60
gcttatgata acttcgcatt ggaagatgct gccgagattg agcagatcac ttccttggca 120
ttgtacgagg cttcctcgat tgagatacgc agggctgact ttatttcagg tcgcaaaacg 180
tttctgcatt cacaatacac taccttggcg gtccttggag ttgtatga 228

<210> 572
<211> 399
<212> DNA
<213> A.fumigatus

<400> 572
acagacgcaa atagccctga actggtcaat cagtacaact ttctcaacac atctatccca 60
attgtctttt cccacgcctc ttacctgaca gtgaaggacg ccgagctgct tcgctcaaca 120
aaccaatata tttccatcac tggggaatca gagcgacact atggacacga ccacccaagc 180
agcccgtaca ttatggacca atcctctctg ggaatcgaca cccacttcac ctacagcgcc 240
gatatcgtcg gacaagcgcg catgtggctg caggaggtga ggcttcgcct gtacgctcag 300
gtcctcgact gttgggacat tcctcccaat aaccccatgt ctgtcgaaca cgcatcttat 360
tggcaatctc acccagccgt gcaaggaccg cgattaagt 399

<210> 573
<211> 300
<212> DNA
<213> A.fumigatus

<400> 573
actgttataa atgatgggca agctctagat cagttgagtg attcaatcag gattccactg 60
catagacgaa cggaggagca gagaatcgct gagcaggctt tcttaaatga tgagaagcat 120
tctgggctga aagtgctgga gagtactatg tttaagcgta ctttaatttg cattgacttc 180
ataactcatt tgcttagatt actgctattc taccagatgc agcgtgccat aatagctaga 240
tttagcagag aaaacaggtt atttgatttg ataacttcaa tatatcatgg ttcaatttga 300

<210> 574
<211> 198
<212> DNA
<213> A.fumigatus

<400> 574
tccatctgcg gtctgatcct ggttgcgacg gacatattga acaattggcc cttactctca 60
caaccacaat atagcgtttt ctggaacatg gcaggccggg aattgctcta cactgttata 120
gagcaaacat gcatagtcct aatttatatg agttattgca ttgtttatct taaggggatt 180
atatgttcgc cctgctag 198

<210> 575
<211> 183
<212> DNA
<213> A.fumigatus

<400> 575
ggcccagtgt ttgttgccac aaattgcatt gccacaatgg gcggaggctc aaaggtggcc 60
attgtcggag ctggcttcgc tggcttacgg tgcgcagaca tattagtcca gaatggcgct 120
caagttacca tctttgaggc aagagatcga ctcggagggc gggtgcgttc acaggcacgt 180
tga 183

<210> 576
<211> 438
<212> DNA
<213> A.fumigatus

<400> 576
tttgtcgcaa ggggccctaa ctggattcat ggcacggaga agaatcccat caccggcgtg 60
gcagaggtga ccggaacgac tatcgaggat tttgaaggcg agcagatcat tttctccaga 120
gctggaaagc tcgtcgatga ggccacctcg gccaggatct ctgagttcgt atggagcacg 180
atagacgaag cgtttgagta tagcaatgcc ctcaaagact ctattcctcc cgatcaaagt 240
ctgcttgact tctttaagga gagagtcagc aaaacgggct taaaccctga ggaaaaggag 300
ctctgtatag agacatgtaa gctgtgggga gcgtatgttg gtgactctat tgagagacag 360

agtctcaagt tcttctgtct ggaagaatgt atagacggga gtacgtgcca cattttctct 420
atggctgcta tctgctga 438

<210> 577
<211> 555
<212> DNA
<213> A.fumigatus

<400> 577
cgcacgcgta tcttccagct tcgtcggtgt aatatggaac ctctcgacgc acacagcagc 60
cgatccccca atatagtcat gagcctaatc cgacatcacc tcctcgggcg ccaggatgtt 120
tcaacggtcg agtcctcgcg cagctacttt gtccaccaac agctccgctc ccagctcagc 180
catgacgtct ggtggatcgc cctcgcagtc ttgttcatta ccattgccga gtcgccgcac 240
tattccgata atccaatcgc ctactcgacc tttaacatca tcttcgaggt tgtctccgcg 300
tacggctgcg tcggcatcag cgtcggcttt ccgggcagaa attactcatt ctgcgggtcg 360
tggcatacca tcagcaagct gattctggcg gctgttacac tgcggggccg gcacagaggt 420
cttccagttg cgattgatca ggcagtaatg ctgccgaatg agtcgctcgc ttgggcagaa 480
gaggaagatg cggttctgag gcgtgagcag acacgtacgt atggaagtga caagatgccc 540
gttgggacgg tttag 555

<210> 578
<211> 270
<212> DNA
<213> A.fumigatus

<400> 578
cgcggtgctg gcgctagtga tgaagacagc cgggaggaga tgctgacaca cagtgttgtt 60
gatttgacag atgacaagat cctcgtccag atgggttcac ttcgagaggg caaaacgcct 120
gaagaaaagg accaatatat tgccgggctg aaacaaatca ttaatgatat gcggcgcgac 180
aaggtgaaag atttcaatac cgtggccacg gaaattgctg cataccgtag acgcttcctc 240
caagatccat cacgtgtctt gcccttgtag 270

<210> 579
<211> 705
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 579
tggntgccag catgcccacg gaagaggaaa cttctcgctg cctttgtacc ttcggatgag 60
ttgtcgaagg aggtcgagga gtacattcgc aatcaccctg tgacacttgc tttgcgccaa 120
aacccggcct ataccgaatc gcgaccacat atgaagatcc cgcaagagtt gcgcgcgcgt 180
catctaacgg ccggcatcct tgcgactccg ggcggaattg tggtgccgcc ttatgttttc 240
tgcgaggagg gcggaaagag cctgactgcc atcttttacc ttggctccga tgtctccggt 300
catcctggca ttgtccacgg gggtcttttg gccacgctgc tggatgagtc tatggccagg 360
tgctgcttcc ccgcgctgcc aaacaaagtg ggtgtgacag ccaatctgaa cattgactac 420
cggcgcccgg cgatggccaa caactatgct gtcttgaagg cgaaaacggt caaggtggag 480
ggccggaagg cttgggttga ggcgcatatt gaaactcttc ctgaggatgg taaagagcca 540
gtgatactgg tggaagcaaa ggctctgttt gttgagccca agcaagctgc ggtaagtcca 600
tttccggggg ccgttggaat aaggaataat gtgctgacta tgatttcagg ccatggcgag 660
tctgtacaaa attaccaact agtatgttca ggaacaagcg gctag 705

<210> 580
<211> 804
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (10)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 580
actcctaccn cttgcggcgc cgtttgcaca cttttggaaa gcatcgtttg cggacggaac 60
cggttggaga atggcagtat ggaagcgtgg gcacgtgcct acaaggtaca cgccgcaggc 120
atccgctccg tcaagatgac acagaacggt attcgtcagg agggtatctc gttgctcttg 180
aaagagggcc ttcgtcacgc gagcgccctg gaggttttgg acttgcagga caatacgttc 240
acaatcatgg gatcgactgc tctcgccggt gttgtggctg gctggccctc tctgcgtgaa 300
ctcggtgtcg gcgactgcct cctatctgca cgcggcggtg tcaaggttgc tcaggccctg 360
gcagagggta aaaatcaaaa catccagact ctgcgtctgc agtacaacga gattacggct 420
gagggtgtga agctgttctt gcacgctacg aaaaccgccc ttccttccct tcgccgcatc 480
gagttgaacg gcaacaaatt cctcgaagag gacccgaatg tgacagagtt gcaggaggtc 540
ttggaggcgc gcaaggagga gcacggcacc gatgatgatc cagacgacat gtggggtgtg 600
gatgagctag atgagctgga ggaggagagt gaagaggaag aagaggccga agaagaggag 660
gaggaagagg agcaggagga agaggagcgc aaggccgaca agttcctcaa ggacaatgtg 720
aaggcggaag acgagaaggt cgctcaaaga caggacaagg atgtcgatgc tcttgcagag 780
gccctgggca agactgctct atag 804

<210> 581
<211> 684
<212> DNA
<213> A.fumigatus

<400> 581
atcgcacccc ttgctctgaa gggtgagagt ctgactcaat ggcgcaatgc cgttgtgggt 60
gcgccaagcc ccataacgca caaatacaat aacgaccttc gcctgtctgg catcgacttc 120
agcgaccagg aggccctcac tgaaagacta gcggccgtta tggactacga caagcattgc 180
aatttgcaga tggttcttta cgaagacggc cgcgaggaaa tccgaaaacc aggtcgcaag 240
atcatcggcg agatgaagaa ggacgctatt atggctcgct tgcacgcttg gacgcctgag 300
ctgcgctctg gttcattttc cgcgcacgac ttggttgagc cgaggactct aaggataatg 360
tgcgatgcaa tgtccgcact ggcaaaacac ttagctcaaa atcttgatac tggagcggaa 420
ggcaaaacct cgaactgtgt ggccggccaa aaaaaaatat tcatgtctct aagccgcctt 480
atggtggatc tgggagaagc cattgttagg tgcgacggcg tggaggcttt cgttgtgacc 540
agcttattcc ttttcttgac gtcggaagag atccactcga acctatgtga gtcggaccaa 600
gctgctatcc actccatatt ggtggtgttc ctaagaaatt atgtggctac cattctgctc 660
gtggaggcaa cggtatcttc ttaa 684

<210> 582
<211> 573
<212> DNA
<213> A.fumigatus

<400> 582
ggattagagt tctaccaccc gacgtcttac agcattagtc gatactccaa tgctctgacc 60
accacgatgg tctttgggtg gcgcacgccg acctacgagg acgcgaaaat gaaacagctt 120
tttgacggct tctcggagtt cgccgagatc aaccagacgg gaacagcagc cctcattgat 180
ttcttcccgt ggctaagaat gctgccggac tttctgctcc cgacgcagaa gcgggccaag 240
gaacttcacg agcgcgaaaa ggctctgtac ctgggccact atctgcgagc caaacaggat 300

atccgtgacg gacagattaa gccttgcttt tgcgtcggtc tggccgaggc ccaaaagtcg 360
gacggattca gtgacgacca ggctgcgtac atctccggga cgttgttgga ggccgggtcc 420
gacaccacgt cgaatactct gtatgcgttc gtgcaggcga tgctactttt ccctgacgtg 480
caacgcaagc ttcaagagga gattgaccgc gttgtgggac cccgcatgcc gaccatggac 540
gatgagcagg acctgcagta cgttcgtgcc tga 573

<210> 583
<211> 219
<212> DNA
<213> A.fumigatus

<400> 583
tgtactgccg ctgtctcgaa gttgaagggg ctcattgcga ggaaggcgtc tgaggtgtcg 60
gggctgaaag cacagctatg cgtggaagca agaaaagata agagcaaatc agtcagtctt 120
aaatctcatg aatatctgaa gatctatctg aatagaaaga aacatcaacc tcttatggcc 180
tctcaggacc tcacaaagga tctcctagaa ggaaaataa 219

<210> 584
<211> 546
<212> DNA
<213> A.fumigatus

<400> 584
gagcctgata gtcagacttc tccggagttt gggtacagcc ctcagtcatc atctcaagcc 60
agccagcagt caggctataa acctcagtcc tcgtctcaag caagcgcgca gttagggtat 120
cagccccagt cttcatctct tgcaactccg cagactgggt atcagcctga gagccagtct 180
aaccttgagt ctggttacaa cccgcagtct gaatcccaat ttatcccaca gtctggatat 240
attcctcagt ctgcgtccca atcacccccg gagtttgggt acagccctca atcatcctca 300
tcccaaggca cttcgcagac tgggtatcag cctgagagcc aattcaatca ggactctggg 360
tacagccctc agtctgcatc tcaaaaagcc ccagagtttg gatacaagcc ccagtcttct 420
cagcccgctg cccagtctgg ataccagcct cagtcatcat cgcagtcatc ccagtttagc 480
caatctgccc cacactctgg ataccagccc cagtcttctc agtccgcggc tgagtctggg 540
tacaaa 546

<210> 585
<211> 249
<212> DNA
<213> A.fumigatus

<400> 585
cgctcatctc tgacaataag gcttctggtt ttttcatcct catttagttg gcattcaacc 60
ttcggctact accgcggact tgtctcttat ctcttttcat ccctttttaat tttcctccct 120
atcacaattc tttcgcgccg actcagcatt attgccaaga ttattcacag cttgtccttt 180
ctccagtcgg tgtcgatcgc gtctcacgga cacctgcgtc agtgtgggtg ctctcgggaa 240
gctgactag 249

<210> 586
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (136),(169)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 586
attattctct ttcacctcag gtacatgcca aatgtagctc aaattgaaaa aaaccctctt 60
atgaatctaa tttgcacagt ttctcttagt ggcagcaagt tcggcaccgg cttatcaaat 120
ttactcacat gtgatntagc caagagaaca aacatgaccg tggcaccant aactcgctgg 180
cttcatatta acggaggtta ccaactaacc accacatgtg gcaccgggct ctaa 234

<210> 587
<211> 348
<212> DNA
<213> A.fumigatus

<400> 587
cttgatttgc agcgacctta ccagtgcttg ttcatggcag cttgtgccca tgtatggcat 60
tacaagtgca tcagccgtct catccatact cctgagtacc cgatgttcca atgtcccaat 120
tgtcgtgcat acacagactt gagcgccgag gtggacgatt ccaacgacgc gaacgatgtg 180
gataccagca aggagaatga tgatagccag gagcctgcgc agacatcagc agcagagact 240
tcaaatggga tccaagaacc ctcagcggaa tctgatacgg cagcagctcg tacgcaagag 300
cgcacggaaa gcagtcgtca aacaagggac gtgcccgctg ttgtgtga 348

<210> 588
<211> 225
<212> DNA
<213> A.fumigatus

<400> 588
aacttgatac tgcccgaaaa tgagaatgtt tgggagcgca aagtcagtca tcacaccaca 60
gcaactctac catgtcaacg acgtaatggc tatgacactt cattcctcca atctccatac 120
actattgatt atcccgtctt ttcatcccac gctagtcctg aacggggcga cagtctctgt 180
ctacagacga gcccggaaga agatagtatt ggttacgacc gcacc 225

<210> 589
<211> 405
<212> DNA
<213> A.fumigatus

<400> 589
aacgcgggca accttgctaa tggagaaacc agggttggat tcctcaccat gatcgttcct 60
ctgtaccaag ccgaaatttg ccatcccaag attcgaggcc gtgtaacagc cttgcagcag 120
ttcatgctgg gtgttggtgc actgtgcgcc gcgtggattt catatggtac ctacgtcgga 180
tttgatccaa cgaacaacgc ccagtggcag gtcccacttg gtctgcagat tgctcctgca 240
gtcatcctgg gacttctgat tatgtttttt cctgaggtaa taagatggaa tattttcctt 300
acagaatgcg atgctgacac aagaacagtc acctcgttgg ctcatcgacc atggctacaa 360
cgaaaagggc ttggcgaccc ttgcaaaact ccatgctcat ggtaa 405

<210> 590
<211> 207
<212> DNA
<213> A.fumigatus

<400> 590
cgcctgtgta gtggattggt agtgtccttg ttcacggctg gagcgttctt tggcgcagga 60
tttgccggtc ccgccggtga ctatctggga agacgatgga ccatcgcgat cggttgcctc 120
gtcttctgcc tcggaggagg tcttcaaact ggtgctcaga acatttcgta cttgtactcc 180
ggacgattct tcgccgggct tgggtaa 207

<210> 591

<211> 270
<212> DNA
<213> A.fumigatus

<400> 591
gatggaatat tttccttaca gaatgcgatg ctgacacaag aacagtcacc tcgttggctc 60
atcgaccatg gctacaacga aaagggcttg gcgacccttg caaaactcca tgctcatggt 120
aacgaggatg acgcatgggt gcgtgcagag tacaatcaga ttcaggagag cattgtgtat 180
gagcatgagc acgaggccaa gtcctacagt gagttattca ctaatcggtc gtccttccgt 240
ctccttttgc ccaggcccgt gccttacttg 270

<210> 592
<211> 891
<212> DNA
<213> A.fumigatus

<400> 592
tcccccaggg cggattgcct gtcaacatca ccaggagcgc gggcccgaat ttcacccaat 60
ttcccccccaa tagcgctcta tcccccaaag tatccgcaaa gcgcaggtgt ccgtcgctca 120
agatccggta atcgcggtta ttcatttcgg cgtacaattt tcgcgaagaa catccagacg 180
caagatgtaa catcaccggg ggcttttgaa ttgagcccag gggttagccc acagccactg 240
ccggagacat cgacagtgaa tggccagcca caggcaacag gagatgaaaa acactcggac 300
gttgtgcgtc caacggtcac gtcggaatct tcccccaaag atgacggctc aacgacgtat 360
tactctggtc ctaaggtcgg caggcacctt tccatgagtg tttcatatga gagatggttg 420
aagaggaaag ctgcttgtac tattatcaag gtgcgactag agaacgcggt tgaaactgtg 480
cgcaaggcca tccttcaaat caaggacatt cctcccacca aagacggccg tcatattgat 540
ctcgatgtca ctcgcactga ggacttgatt gacgaaagga ctggtaagcc atacgttgga 600
aactggatcc gatccagtcg ttatagcttc tggagtttct ttcccaggca attgttcgcg 660
cagttcacca aattggccaa cttctatttc ttggttgtgg ctatcctgca gatgatcccg 720
ggtttgagta ccacaggtac ttttacaaca ctgatccctc ttttgatttt cgttggtatc 780
tcaatgggca aagaagggtt tgacgattgg cgtcgttatt gcttggacaa ggaggagaat 840
aatcgtctcg catcggttct tcgtcctggt gccagtctta ccgtttcttg a 891

<210> 593
<211> 411
<212> DNA
<213> A.fumigatus

<400> 593
agagcactag atgctgcttt ccctcgcgac cctgctatcc cagtgaacca tctccgacga 60
tttgccaaac attcccaatt gccagaatcc ttgcgctcag ccatcagcca caatgactcc 120
gctccgcaga caatctttgt cctaatatcg cctcctctcc cggaagctga tgctctccaa 180
aaagtgcttg ctccatttgc ccctgcctcc tcgacctctg ccgacgatca ggccgaagcc 240
gctcctgcca tttccctgca tacaatcaag atccctactc aaccgccctt gaatgctaag 300
caagccgaga aatggacatc gacttactgg cccgttgtct acaacccagc tgccccgcga 360
gccacaatag caccgccgcc gcaaatccta aaccgtgcgc tcgagtccat c 411

<210> 594
<211> 495
<212> DNA
<213> A.fumigatus

<400> 594
tggaagctac ggtttgtgtt tgcgctgttt gcaatactgt tgagcttccc cgctattgtc 60
cgggccatct ctacagtccc actttatcgt tcgaaagtgt tccggcagct tgagaagcgg 120
ttagaatact ctgttacttc ggataagatg cctgtcccat catcgtacga cgaagtcaaa 180

gctcatctgc agcatgttct ggatgatcat tcgactccct tggacatttc tcttatcgac 240
aagttaaaac tagagcttac cgagactaca gatcgcaggg ttcctagcac ccttctaact 300
ctcatttcac agctccttcc ggtccttcag gaagatccca cgccgattac aactcttggt 360
atcaaggcta cagtctattt ctcctttact gatattcgct ccgttgagcc ccccattgac 420
tttatcgccg ggttcaaagc gccctcgcca cctgtcaacc tgtattcgcc acgggggtcg 480
aagaaaccgc gctgc 495

<210> 595
<211> 195
<212> DNA
<213> A.fumigatus

<400> 595
aacactcctc tacgatatct gctttcgcac agtggcctag tgtctatgcc cgctatcctc 60
tttgtctctc agcatatctg cctcatcttc acatatgaca cttcatcggg ggcatcatgg 120
gacgaaatgg tcactgccta tggggaaatg cgcatctgct gcaaagatag tactctccct 180
ttcttgaaac catga 195

<210> 596
<211> 189
<212> DNA
<213> A.fumigatus

<400> 596
cttcaggccc atggccacga gtacatggcc gacctagatt acccacacca cctaatgaga 60
acttgcaagg cgtcttcaaa cagcgtattg acaaggcaag gagtctatag acttcaatgg 120
tatgtgaaca tgctgggact caccgcaatc ttcgggtatg tcttcgctgc ttttatggcc 180
atgcactga 189

<210> 597
<211> 186
<212> DNA
<213> A.fumigatus

<400> 597
gaagccagga ttctcaaggt gaagaaagaa attgaggaga agttcgagca ggagaaatgg 60
cataagatcg ccgacagtgt tgctgcggat ggaggaaaca aatatcctgc aagtgcaatc 120
cagaaaaagt tcaaagagct gaacaagagg actcaagctg cagcagcagg tgaggctgag 180
gactag 186

<210> 598
<211> 390
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (131),(170)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 598
aagatgcaac accctaacct tacgcaggaa tcacagtcaa cttgtgcccc agtaaacggg 60
actcctcgca agcgaggccg gaagaaggcc gcggacggtg acgcagacgc agatagtacg 120
gagaccccag ntaagaaggg aaagacttcg cccaagaaag gcttgggtcn tattccagcc 180
tctccagaat cagccgggtt ggccgacaag atggttctgc ggatgagaga cgaggaaggg 240
cgtagctggt ctgagatcac caatgtctgg acgaggatga ccggcatcaa ggttgaaggg 300

agcacgctgc gaaagcgcta cacagccatg aaggcgaact tcatctccat cagtgcagaa 360
gatgtaagtg atcgtccggt ttcagcttga 390

<210> 599
<211> 231
<212> DNA
<213> A.fumigatus

<400> 599
gaagactgcg cacctaatat caaaagattc ttctcaggca agcgctttcc atttgcgaca 60
ctgtccagca tggacgacca gatgtttttc tttgggccat ctttacttga cggtcgacta 120
ttgtttccag acattatgtc caagatcgac cctgctcaac ctgtgctgac cattccaaaa 180
ctaattaaag tctttatcag agctctgacc tgcttaacgc gtcgatcttg a 231

<210> 600
<211> 237
<212> DNA
<213> A.fumigatus

<400> 600
ttcaagatga cggtcaagat cccatggccg gcagtttacc ttgccattgc agcctccgtc 60
tatatgagac ctcaatatgc gatccttgac tcgctaacgg cgacattcgt cgtgctgtct 120
ctggctgtta cttcgttcag gatcatctat gccttcgtcc tgtaccctaa atttttcaca 180
cctataaagc acattcccac accttcggta agaaccttta ttgcacggcc tgaatag 237

<210> 601
<211> 726
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (308)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 601
actcactgcg cggatccgtc gacccctgtg gtgaagacct gccaagcaaa acgtcctcga 60
tacgggcagg tcttgaaaaa catgattcgc cttgcatcgc ccgcaaagcc atttaaattg 120
acgccgaagg gcactactca gcgacatgcc gtttatgcgg actacgcaga ggagattgac 180
gcaatgtatg ccacgcacga gaagcagctg gggcctaagc tgccatcgac gatcgactct 240
gagagtgtac attgctatgt gcatgaagtc attacctccc taactgggcg atctgatata 300
aggcctancg atgatctttt cggcttaggg ctcgactcac tgcaggcgac tcagctcagc 360
aatattttgc gaagtgcagt cttgtcttac aacccggcgt tgagtacgga caacattact 420
gtacagaata tctatactcg acccaccacg gacaagctcg ctggtctgct cctgggcgtc 480
cttcaagaaa aaaaggaaca agcagcgata gccccgacgg aatcgcgctc tgaaagaatt 540
gccggcctag tttccaagta cacagctgat ctcccagctc gatacgtcaa ctccccaact 600
caattgcctc ggctctcgac tgttaaaact aacgggatct accggttcgc tgggcactta 660
tatcctttcc ggcctattaa acgatcctca cgtggcaaaa gtatattgtt tcaatcgcgc 720
cgctga 726

<210> 602
<211> 783
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222> (444)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 602
tttccaagta cacagctgat ctcccagctc gatacgtcaa ctccccaact caattgcctc 60
ggctctcgac tgttaaaact aacgggatct accggttcgc tgggcactta tatcctttcc 120
ggcctattaa acgatcctca cgtggcaaaa gtatattgtt tcaatcgcgc cgctgatgca 180
gccactcgcc aacgtcaggg gtttgccgaa aagggactgg acgcctcgct cttggaagac 240
ccaagcaagg tcgaattctt acacgtgtct ttcggagaca aacactttgg tctggatgat 300
tccatgtaca gcaaactgct ggataccgtt gacctgattg tccacaatgc gtggaaagtt 360
aacttcaatc accctgtgtc gtcgttcgaa gaccctcata tcaaaggggt gcgcgaattc 420
gtcaatttca gcctcgaggc ccgntacaat acccaccttg cctttgtctc ttctgtgagc 480
acaatcgccg gatggacgcc ctcttctgac gagtcagctg tccctgaatt gccaatggac 540
actgtggacg ccgtgctgaa gcaaggatac ggtgaatcaa agcatgtagg ggagaggatt 600
tgtttggagg cgtctcggac atcaggggtg ccgacgagcg tcctacgtgt gggacagatc 660
gctgggccgg atagtcggtt ggggctgtgg aatccacacg agtggctgcc ctccgtggta 720
aagacgtcta agagcatggg aagtcttcac cacaagggtc gaaggacgcc cgcagggtta 780
cca 783

<210> 603
<211> 438
<212> DNA
<213> A.fumigatus

<400> 603
agaccgcaca aagtactcca ggttctggca gataatgtgc tgcggcgggg ggacaacggg 60
ctccaggtgt atgtgatgtg cgagattcct agcaacgtaa ttctggccgc agagttcgcg 120
gactgttttg acgggttctc aatcggctcc aacgacttga cacagcttac ccttggggtc 180
gaccgcgact ccgccgagct ggcggacatc ttcagcgaac aagatgaggc tgtcaagtgg 240
atgattgcac gggtgatcac ggtagcacgc cagaagggct gcaagattgg gatctgtggc 300
caggcaccga gtgaccatcc ccagttcgct cagttcctat ccgatttagg aatcgattcg 360
atttccgtta gtccggacag cttcgtgacc gtcaagcggc atctaatcag aagcgagcgg 420
ggtgtgcccg tttgttga 438

<210> 604
<211> 219
<212> DNA
<213> A.fumigatus

<400> 604
aaaatttcaa gcgatttctg cagccgtcca catccatcct tcaaacgcct ttcattcata 60
atgggagacg tcgccgtgga gagctcggcg accaacgtca cacctagcaa gtcggcgcca 120
ttcgatacca tccctaatat agactctctc gaaggcacag atgcagatgg aggtgatgag 180
tatgcgactc tgaagagact ccagagacac ttagagtaa 219

<210> 605
<211> 363
<212> DNA
<213> A.fumigatus

<400> 605
ggactcatct acatacccga gtgtatgaga actaagatca tcacgaagta ccataacaac 60
ccaatgcata gatatatggg aaccgaaaaa acagccgaag ccatctcaag aaattattat 120
ttcctaaaca tgaggaggaa ggtacaagga tacattcacc agtgtgaaac ttacattaga 180
gacaaacctg ctagacacca accttacagc aaaatacaat caccagaagc accgaaacaa 240

tcatgggaat ggatcaccat taactttgtt ggaccactac tagagttaaa agggtataat 300
tacctaataa cagtcaccaa cagactcatt cttcaccccg gggctggcag gtaccgcgat 360
gct 363

<210> 606
<211> 639
<212> DNA
<213> A.fumigatus

<400> 606
gacttgtccg ctcaatgccc cgggctccat atctcgtttc aagttggaaa actaacccct 60
ggtctcttct ccgtcggcct tttgcagctg aactgtctca cttcggccct gggttccgac 120
ggctgctctg agctgacgga tttcgcctgc cattgccaaa agtcaggcct tgtggaacag 180
gtggtgccct gcgtcaaaca agcttgcgat gtcgcggacc aacaaggtac gaatatgaaa 240
aagacacatt cgaccctccg tctgatcctc tctaatccac gccgtgtagc cgtttccaaa 300
gtcgtcgtgt ctttgtgctc tggcgttggc catccggtct cggtgccccc cgtggacgca 360
tcggctccca catcgactgc tgcagccagt tttccaacca cagcaagcag ctccaattcc 420
accacggtca gcggtttggg cggaagctcg cggacttcgt ttgcggcctc tccaacttcg 480
actttgggtt ctacgacttt ggccacggtc aacactgctt cgccttcgcc ttcgttttcg 540
agccccgccc tgtctaacgg ggcctcgggg attcaatccg gagttgctca ggtggctggt 600
gctgccatcc tgctagccag tgttctgttt ctggtctga 639

<210> 607
<211> 249
<212> DNA
<213> A.fumigatus

<400> 607
cgacaactga ccggccaggg cgcacactgg gactgtctcg gcgacaagat cgaggtcgca 60
accaacccga acccggacaa gtcgcccgtc gcctacgtcc acccggacaa atacatcaac 120
tacaagttga accccgacct cgagacggcc caccgatgca ttgacatgct caccaaggca 180
ggcttcaacg ccagcggcaa cccgaccttc gactggattc acgatgtcta cctgatcctc 240
atccacatg 249

<210> 608
<211> 570
<212> DNA
<213> A.fumigatus

<400> 608
tttccccgac gttgtccttc cagcccgccg gtgaagacga gacagacgcg acgagcgctg 60
tccagcgtgc tggccgagtg gtcctccggt ctgtggactt cgcatgagtt tgtgcgtgtc 120
tggtggatgc cgtatgagaa gagtgcggtt gtgtggcatg cggacaagac tgatctgcca 180
ctgcggaaac cccccaagac gttctatggg gagtggattg gttatcatat ctaccataac 240
ctgttagcgc tctccaacta tttcccccgt atccttccct gggtcgaatg tttcgtcttt 300
ggcttgcaat atgggttcaa ggcggagaag actgtgacgg aagccgtaga gcctgcccgt 360
gaggggcttc tgatgaactg tctgtactca cagtttgtca acgaatgggc actccctctc 420
gcgaagggcc ctgaagcgat cacacgcctg tcggcctggc ttcatggtga catggagacc 480
gctcgtatcc cgttctcggc caatgggctg tgggtacatt gccccattga agtcagagtc 540
gcagattcca cctatttggg aaaacctcgc 570

<210> 609
<211> 318
<212> DNA
<213> A.fumigatus

<400> 609
aaagttggat tgggttttgt tggtgcaccg atctcggtcg ccattaccga ttggctaatg 60
ccattcttcc tgtttctcta cgtgtacttc gttgcgggct cagaatgctg gaatggcttg 120
acaaatcgtg catttcgaaa ctggggtccg atgatccagc ttgcacttcc cggattggtc 180
atggtggagg ccgaatgcct tgcctttgaa gtcttaactc tggcatcgtc atggcttggc 240
acaactcccc tcgctgcgca gtcgatcttg tctacgatcg caagcattac gttccaaatt 300
ccgttcccag tgtctatc 318

<210> 610
<211> 201
<212> DNA
<213> A.fumigatus

<400> 610
ggtgaagaac ggaggaaaga tgttgccaag ttggcaggtt tatatctgaa ggtggttgct 60
ctaggcgcac cagggtatgc ttgctttgag agcgggaaac ggtacatgca ggcacaggga 120
ttgttctcgg catccctctt cgttctgttg atttgcgccc cgtttaacgc attcatgaat 180
tggttcctcg tctgggtatg a 201

<210> 611
<211> 315
<212> DNA
<213> A.fumigatus

<400> 611
aacccatcat cttccagccc gggcgttatg aaaacattgt caagcgcagc acgatcgaca 60
tggttcccaa ggccatcatg tacaccctcg ttcagtaagt ggcatcgaca gcttcgacta 120
atgtttgtgc taacttttgg tcccaggttc accaaggatg agatgcaacg tgaactgctc 180
gagcagatgt accgtaataa cgagctggac gaattgctca aggagagcga ttacaccatt 240
cgccgacgga aggagtgcca gcagatggtg gagagcctga gccgcgcaag cgagatcgtc 300
agccaagtcc agtga 315

<210> 612
<211> 486
<212> DNA
<213> A.fumigatus

<400> 612
tgcggatgtt gcagccccgt ggtgaaaatt cgctcattct cactcatgcc ttctatcgcc 60
tcgacggcga ttgcccctca tttttcgtct tcgctacgtc gtcgcttgga ttgccctcag 120
ttcctgctgt cacgctgttg gcctcgtcac acccttcccc ggtctactgt cgctcctttc 180
tcaactgcgg ccgtcaccat gggctccatc caacgcatta cggagcattt ggaaaagcca 240
gagctcgatg accgctccta tcgagttatt cggttgtcaa acaaactgga agcgctctta 300
gttcatgatc ctgaaacgga caaggctagc gcatccgtca atgtcaatgt gggaaacttt 360
tcagatgcag atgatatgcc aggaatggct catgctgtag agcatttact cttcatgggg 420
acaaaaaagg taggttgcac atacacgtgt cgaacatcag ggtttctttt gaggaagttc 480
aagtga 486

<210> 613
<211> 285
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (213)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 613
ttcccgaaag aaaacgcgta caatcaatat ctcgcctcac attctggctc gtcgaatgca 60
tacacagcag ccacggagac gaattatttt tttgaagtgt ctgctacgga cgactcgggg 120
gatggacagc ccaatggcca atccttgact aacggcacga ccaacggaaa aaccaatgga 180
acaaccaacg gcgactatgc gttcgcaaag tcngacactt cggaaaccct cgtccctctg 240
tatggagctc tcgatcgctt cgcacaattc tttgtgtccc ccctt 285

<210> 614
<211> 894
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (763)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 614
ctctcgacaa ctgacctccg attgtattat gctaggaatg atgagcgcaa cgaggacggc 60
aaggacaagc aggaggagtc gccaggtgat ggcacggata gcaaggatgc tttcgggtat 120
cgcaagaacc ggatggccgt cgatgggatg ccagtgacca ccctcaccga gcaacaggaa 180
gctcagcaag cgtcccacaa cactgcttac gcacaattta tgaagcccaa gttcgctcgg 240
gcaccgataa aggaagcagg cagagtcgcc tatctcggag agtcatcaaa tctgtcgctc 300
ctggttcagg atcgtcatgg aacaacggat gtggtgcact accctcttcc gccgaacatc 360
agaggatcgc gtgctcggtt gacggacctc gacaacctcg aactcgacat tctccatcag 420
cgtggcgctt tcttactccc tcccaaaccc ctctgtgacg agcttgtcga agcttatttc 480
agatgggtcg cacctatcgt ccccatcgtc aatcgcagcc gttttatgcg acaatatcgc 540
gatccgaaga acccgccttc tttgcttcta ctgcaggcca tccttctcgc tggctctaga 600
gtttgcacga atccccaact tatggatgcg aacggctcca ccactctcgc tgcaatgaca 660
ttctatgaac gggcgaaagc actttatgat gctaattatg aagatgaccg cgtcacgatt 720
gtccaggccc ttgttctcct aggctggtac tgggaaagtc ccnaaggttt gttcatctgc 780
tttgtccgaa aatcggcctg ttctaactcc tacagacctg acgaagaacg tcttctattg 840
gaccagagtg gccatggtcg tccccacagg gctcccgcat gcacccaaag gtag 894

<210> 615
<211> 915
<212> DNA
<213> A.fumigatus

<400> 615
attctcgttc tactgtggtc actcgctctt ttggccgtcg cgtggcccat cgccatcgcc 60
attgtctcca tgttcattgg caacgccagt gctgctggcc aggcgtctga accgttatgc 120
tggagagttg gatttaaatg ggataaagac gctcttgcat gctctcggaa ctatgtgacg 180
ctgtctatat cgccatatgc gaatgaccac aatcctggtt ccgcagcctt ctcgtacggt 240
gccgaggctg tactttgtgt tctcttcgtc tgtcttatcc aggctaatca gaccatctca 300
ttgcactgtt tagagctgct cgtcaacctg tccagagatg aaggcatatg gcgacaagcg 360
tatagtgaaa caggggaggc cccagggaca cagttgaccg tgaatccgtt ccgtgcagct 420
gtatcgagtt gggagaacgc tgttctattc attgccaaaa cagtgctgca ttggataatt 480
ggtcagagcc tgatcccttc cgttgccatg gaagaatcca aagacaccga cttcgccaaa 540
gacatcgaat catgggcctc catccctgtc caagacctgt ccgctcatgt ccagaagctg 600
ccgttcaaac gcggattcca gtttgatatg gtatactcgc ggttgattat atacgccata 660
ctagccgtcc tcgtggctac gttcgcaaca tacctggctc taaggcgacg gaaaggctgt 720
cagcctgccg cgctgggaca tctgccgact ctcgtagatc tcatcgatga ttggaagaca 780
gaccaggaag gccggatgtg gtgggggat aaggctcccg aactaaaggc cggtcaggtg 840

cggcacgccg gaacatgctg ggataagatg cttcttggcc cgatatgtac tactgctaga 900
tatgccggtg gttaa 915

<210> 616
<211> 747
<212> DNA
<213> A.fumigatus

<400> 616
aattcacaca gcagactggc agacaaactg accaactctc gcagaatcgg cgtcacaacc 60
cgcgatcgac cggccgcagc cccccaaacc gggcccttcg atctcggctt tcgcgccatt 120
ggcaatccca ccttcgcagt aggcatcacc gcctccgcaa caatcttctg ctctagcgcc 180
gcaacctccg ccttcctccc cgtcatctcc gaaatgcgca aaccaagaga ctaccccaaa 240
gccgtgtacc tgagcatgag cttcgtgacg acctcctacc tcgccttcag cctggtcatc 300
tacgcctggt gcggcaagtg gattgcctcg ccctcgctcg gcagcgcggg cgagactgtc 360
aagcgcgtcg cgtacggcat cgccctcccc ggcctcatcg tcagcggcgc gctgtacgtg 420
cacgttggcg caaagtacct ctttgtgcgg atcctgcgcc actcgaagca tctccaggcg 480
aacaccctcg tccactgggg cacctggctg ggttgcacta taaccctgtc cgccatctca 540
ttcctcctgg ccagcgccat tcccatcttc acgtatgtcc ttgcgttggt ggggagtctc 600
tgctattcgc cgctggcgat ctgcttgcct gggtggctgt ggctttatag tcaccagcac 660
taccggcggg gaagcgtggg ccggctcgtc atctacggtc tgcatgtggg tatgattctc 720
ctggggatct ttatgactct cggaggc 747

<210> 617
<211> 198
<212> DNA
<213> A.fumigatus

<400> 617
attatctgtt ttaggagagc aacttctatt tatcagatca cagcctatca gagtgtattt 60
caaagaaagt atcactccgc atggggctct gttgatacag cttccagagt tgggccatct 120
ggtcccaatc ctgcggtctt tatcctccac cacttgattc acactaacag caaaatcatg 180
gccgatacct ggtgctga 198

<210> 618
<211> 327
<212> DNA
<213> A.fumigatus

<400> 618
ggaaccacca cctctggcat tccacctgga gatttcacta ataatgaatc tggagctaca 60
cagcctagta tgcctcccag gatctcttat agcataactg ttagggctac ggcttctagt 120
atttctccag acatccctgc cagcaacgac tccgaagctg cacaggctgg tgttcttccc 180
aatgtccctg gtgccgtgac tgttggagct acagcttctg atgttcctcc agtaatgact 240
ccgagagctg cagtctggtg tacctcccag tgtttcaggt ggcatggcta ttggagcact 300
tgctgttggt cccataaacc tttttga 327

<210> 619
<211> 720
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (644)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 619
tccccttgca atgggcggtg tcctggccct tgtggtgaag atttttcagg cgcgcagaat 60
tctaagacag atggacatgc tggaaaccat caagaggatg aggtgggaaa caaggctgtc 120
aaaaaacccc aagcttcgga tctcaagaca gaatgcaaga atcttgaatt accgctagat 180
tactctgctt ctcgtcacca tgcaggcatt gagcagatct tgcaggctct ggaggatttc 240
catcctcaac ttgacactcc ttgcaagctt tggacctttt tcgccctggc aaagctgtat 300
gatatcgcca cgacaccgaa gatatgcgac ctcattcttt cctggttcta cgagtccacc 360
aacgtccgat ttattgagat ccacccagag atcagctatc ggatctcttg tggaatccag 420
tgcgcctccc tttgccgtga caccttctct atccttgtag gggaggaggc cctacttctg 480
ctggctaatc gggatgagcc ggcgcgcctg gggaggcctc aagagacatg gcatggacgc 540
ctccgtgagt cgctagatga cacagagctc cagcgtattg agtacgcaag taagagcttt 600
ctggactatg ttatagatcg ttttgttcac ttgatggggg ctancatggc atggctccat 660
gatttatccg agtatcagaa agtttatcat ttccaaccga gatcctcacc aggaagatga 720

<210> 620
<211> 183
<212> DNA
<213> A.fumigatus

<400> 620
aggaaaggca tcatcaggct gttaatgtct gcaaagactg atagctatta catagcacgc 60
accaaaaatc ctatgattag cagcaaatat ggcctcagaa acccatgtcg tcaaagaact 120
gcggttgttt cctttgacct actaaacatt aataccgaat ctgcctcgaa aggggtggta 180
taa 183

<210> 621
<211> 312
<212> DNA
<213> A.fumigatus

<400> 621
aatcatcgtc ttcatacgtt aattgctatt tttgagcaca ctctacagga atcacagttt 60
tcaaatctag catttaaatc ctttcaaatc atcaccatgg accccaacat gaacaatctc 120
ctcaaatgga gtatcgagaa ctcgacctca gctcggcagg ctggcaattc caatggcact 180
ggtcccgccc ctgcctctcg cagcaatttg aaccctgaga tgctctccgc tctattcgga 240
ggcccttcgg atgccgacct catgaaagct gccatggaag cggtgcactc ggacgtcttc 300
accgacggcc gg 312

<210> 622
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (136),(185)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 622
agagtgcaac tgccactccc cgtcctagtg ccactcccgc agttgaaaaa agagcacaat 60
taccagctgc tactgatgat ggacaggaag gattacctca acctcgggct gaagagcata 120
tacgggacgc ctcttnagaa gatgaacgag cccctgtgtc taccgcagaa aattaggggg 180
cgacnggaag tctccaaaac cgttgggtac ccgaattacc ttctgagctt taactctcct 240
ggctga 246

<210> 623
<211> 234
<212> DNA
<213> A.fumigatus

<400> 623
tgcaatagtg acccttggtg gatcttcacc acctgctccc tcttctacac catcaaacgc 60
gaatacaact ttggcatcgt cgagctggtc agcgtctccc cgcggtttgg gatcatgctg 120
gcgtccatgt gcctgtcgat tgccttcatg atcgtcgata cctgcagcgt cctcaacgtg 180
tttagccact cgtccctgcc gacggggatc gaaccattct ggaaggtatg ttag 234

<210> 624
<211> 237
<212> DNA
<213> A.fumigatus

<400> 624
ctagcgctgt ccttccagcc ccgtggtgaa gacaagaacc gcccgttcat gtcacgaaag 60
gtgtcgctgt tctatatcgg gaccgtgatc ctggcgcaac cctactgggt gctggagatt 120
tatgccaact ttgcctattt caacaactac aacaagatct ttctgaccac gcggccgctc 180
gagcctattt tccggttcgt ctcccgccat tgggccctcc aggcggacat cggatga 237

<210> 625
<211> 195
<212> DNA
<213> A.fumigatus

<400> 625
agaaggaggt atataagtag gataattata atttatagta ggtatacttc ttctatagta 60
gttagggcag tctattcctc ttatatatct tatggcttct acttagttag ctacttacta 120
tatctagtaa taataatcta taaaggtctc ttccttttta atactagtaa gtactccctc 180
tactttatag cttag 195

<210> 626
<211> 213
<212> DNA
<213> A.fumigatus

<400> 626
gctcacacat ttaataatta taactcattt ataattccct taaataacta tatagggtct 60
ctcactgtaa tctactacag taataacctt agatgttata tagagtccta ttataaagcc 120
agtttcatta aagttctaga tattatcttt atagatgcta tgttcctgaa tagctctatg 180
tacagtttta aactactatt ttataacctt tag 213

<210> 627
<211> 801
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (793)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 627
atcacaaatg gtctaatgag atgtttatta ggggatttct catttgctcg ctctctagca 60

gtgcagcacc gatgcaggga tatcctggcc acatgctacg actctgaaga gatgctgtac 120
agcaagtatc cacaagctaa gcagcatgtc caggatcttc ttggctcgtt ctctaataag 180
agaaagcagt gtgatcctga tggatctgag acggagaagg aaagcaacca ggaaataaag 240
aaaggcggag agcagtctaa taagaaacaa gactgcaagc gtcggggtcc gaacgtactc 300
ttcgcagttg atgcgcgaaa actcggatct ccctctggag gtgggaagga tgtccgcaca 360
ggctttgcac gacgcgagcg caaacgccct gcttggcagg acaataggca gaagatcgag 420
ctagcaacca acacaggtgg tccttgggat atcatatgtt tcaacttccc acacgtcggt 480
ggcttatcaa cggacgtgaa tcgacaggtt cgttcaaacc aggaattact tgtcgccttt 540
ttcaagtcat gcgtgccact gttgtcggcc cgtccgcaag tttggaacgg cgatgatgaa 600
gacgaagagg atgaccactg gagctcaagt gaagacagta tatcagactc gagcgagcag 660
gatgatcaag atatccccac ccatggacga cgaggcagat acaggaccga gccaggacaa 720
attttagtga ccatgtttga aggcgagcct tataccctat ggaatatggt ctcacacaag 780
ccgaaggaag gancatgctc c 801

<210> 628
<211> 861
<212> DNA
<213> A.fumigatus

<400> 628
gacatgtgcc tgggtggtgg aatcgccggc ctcacggcca gcatcgctct ggcgaaagag 60
ctcacaaagg ttgagccgga cctggacatg gccatctacg aaagtcgaga tgaacattcg 120
atgggggaag gaggagctat cagtctcact ccggtcgctc agcaccatct ggatcagcta 180
ggcgtcctgc ctgaactctc tcggatggga gacggcgcgg gaattgaggt agatgaaatc 240
aacctttact ctctccgctc cgggcgatcg ttgggtccct tgcgatttgc cgacgagacc 300
ggccgcggtt acggaggcta taagagccgc cgagtgcggc ggagtgccct gtttcgcgcc 360
atgctggccg tggctcgccg gtacgcacag atctcggtag agtttgacaa gaagttgtcc 420
agcaccacca tggacggaaa cacagtgacc ctcgcattcg acgatggaac aacgaccacg 480
ggcgatctac tgctgggatg cgatggcgtc cactcggccg tccgcacgca gctggtggat 540
cccgggaatc attccgaata taccggcatc gcctttattc agagtctggc tccggccgag 600
cgagtatcgc taccatctca tttgaaccaa tcggccattc accttacaaa gcaaggatcg 660
ctgctggcca gctactgtga ccccagtcat cagaccctgt ttgtcgccgc gatcatgcgt 720
gtgaatgaac acattatcga gcggtaccgc gcgctggcct ccacaggcac caataccgcg 780
gcactcacgt ccgcacagat ggcccttcgc tacccggtgc gttcttcact cacgggagct 840
gacgagaccc gcgcttatgt a 861

<210> 629
<211> 195
<212> DNA
<213> A.fumigatus

<400> 629
atcataatta agaaagcgct catccaaccg actaccttca gtccactagt tcactctttg 60
actaccaact ctatcactac tgtgaaccca tccgtccaaa gcatcatcaa tcaacattta 120
tctaataaga aagcaagttc gcaatatcat gtcaccccta tcaacactac ggccccgagc 180
aaggccaacg actga 195

<210> 630
<211> 675
<212> DNA
<213> A.fumigatus

<400> 630
cagcgcgggt tcttcgagcc ccgtggtgaa gaccaattat tttcctacat caagatggcg 60
atttgggact caatcagcgg ccgcaagcag gcccaaggat ccgaggcttt cgacccttcg 120
accgcgcaag atgccacatc cttcctctcc gaagctctca ttcccgatcc tactcagctt 180

catcctcttg ctggcttgaa ccaagatact cttgactacc tgaccctcga agactccgcg 240
cttgacgaaa ttccggggtc gcgatcggta ttgccatccc gcggatggtc ggacgaccta 300
tgttacggaa ctggaactac ctaccttact gcgctgacga taggaggtgc ttggggtctt 360
gctgaaggtc taaagcgtac accagttaca gcgcctccca agattcggct gaacggcgtt 420
ctcaactcga ttaccaggag aggaccgttc ctcgggaact ccgcaggtgt ggtggccatg 480
gtatacaacg gatttaactc aggactgggc tacgcacggg gaaagcacga cgcagccaac 540
agcattgttg caggtgcttt gagcggaatg ctcttcaaga gtactaaggg tctcaagccc 600
atgatgatct ctgggggtaa tggggctagt atcgctggta ctgggctgta cgtacattct 660
catttcttct tctag 675

<210> 631
<211> 366
<212> DNA
<213> A.fumigatus

<400> 631
gggtttacgg cagttcatat cgctgcgatc accgcgacat gctggatcct cttcttgaac 60
gctcttgtcg ggtttcagtt ccttgacgac ggtacacctg tttcggtcgg tctctgtgtt 120
gcttctgccc tggtgttctt catcggtacc ggttatatcg ccctagatac tgctttcgac 180
tggaccggag agtttgcgat gaccccatct gatcactatc gaaatatcgc actctacgta 240
ctgtatcagc tcttcccctt cgtcctcctc gtggcattct tcgttctgga atctgtcttg 300
gtgatccggg tcctgggcga gttccgacca atgtgtatgc tcaacccaca aggtcttttg 360
agctaa 366

<210> 632
<211> 234
<212> DNA
<213> A.fumigatus

<400> 632
ctgacgggat atgcagtgta tctgtctgcc gcgggtctgt tgttcgccat tggccaaatc 60
ttcaactacg tgatcagcac ccatctctgc caggcgtcgc atggaaaaat caacggcgcc 120
ttattcgaga cattgttcac cctcttgtcg gtcgttatgg tctggatctt ctggagcagt 180
ataacggaag atgactggcc gatgccgatg gctgtaggca ccggctacaa ctaa 234

<210> 633
<211> 186
<212> DNA
<213> A.fumigatus

<400> 633
aacggaacgg cggccgttgt ccctgggcga gcacactgcg atccgttatc cgatggatgt 60
acgccacgtt gcgattctga acaaccacca cctggaggac attatacagg tcctgcgcat 120
gcacttccaa cacaatctcg ttgcttggcg ctgttctcgg ctgctccgcc gcgttccgga 180
acgtga 186

<210> 634
<211> 453
<212> DNA
<213> A.fumigatus

<400> 634
atccaccccc tgtgcaactc gaaccgtcca cttgggtctg aaacggaacg gcggccgttg 60
tccctgggcg agcacactgc gatccgttat ccgatggatg tacgccacgt tgcgattctg 120
aacaaccacc acctggagga cattatacag gtcctgcgca tgcacttcca acacaatctc 180
gttgcttggc gctgttctcg gctgctccgc cgcgttccgg aacgtgacaa ccgccctggg 240

cgcgttcatc gcaacccgca gcttggcttc gaggatacac tggtccccgc cggggagacg 300
gaggcaaagc gacgaggagt cgtaccattg gcaccggagc tcgaagaggg ggagccccga 360
gcggtcgtgg aacatgcgtg cctggctgac cttccagggc tggccgagga cggtgaagag 420
ttcggttccg gcatattcga tcgagtagtc tag 453

<210> 635
<211> 273
<212> DNA
<213> A.fumigatus

<400> 635
tgtcctccag gtggtggttg ttcagaatcg caacgtggcg tacatccatc ggataacgga 60
tcgcagtgtg ctcgcccagg gacaacggcc gccgttccgt ttcagaccca agtggacggt 120
tcgagttgca caggggtgg atctatcact ggtcagttga tcttcgggtt agcttggact 180
tcactttggc tgacggccgt agatagctgt tgttgtggtc attgttggcc aacgagccgg 240
gttggatgta gaggacggct gatcggcata tga 273

<210> 636
<211> 594
<212> DNA
<213> A.fumigatus

<400> 636
ttaaatgagg cccttgaact gcgcggtgaa tacccaccat ttccgatcgc aatcagaccc 60
gagagcatca cccgccatga agtgatagtg accgtgacca accgcccgga accatggcac 120
tccctagact actcgatcga atatgccgga accgaactct tcaccgtcct cggccagccc 180
tggaaggtca gccaggcacg catgttccac gaccgctcgg ggctcccct cttcgagctc 240
cggtgccaat ggtacgactc ctcgtcgctt tgcctccgtc tccccggcgg ggaccagtgt 300
atcctcgaag ccaagctgcg ggttgcgatg aacgcgccca gggcggttgt cacgttccgg 360
aacgcggcgg agcagccgag aacagcgcca agcaacgaga ttgtgttgga agtgcatgcg 420
caggacctgt ataatgtcct ccaggtggtg gttgttcaga atcgcaacgt ggcgtacatc 480
catcggataa cggatcgcag tgtgctcgcc cagggacaac ggccgccgtt ccgtttcaga 540
cccaagtgga cggttcgagt tgcacagggg gtggatctat cactggtcag ttga 594

<210> 637
<211> 279
<212> DNA
<213> A.fumigatus

<400> 637
cagaggagcc tctcaagtga gcgttaccca caaatgggag ttgccgagtc ccagtaccgt 60
ttcggaatgc agtgctttca gcagtttcta acaaagttcg tccaaggcgc agcccgtgag 120
attgagtcga ccgtgaccat caccatcaaa atctctggtg agatgtttta tgtcattgga 180
tatgtttcac tgaggtataa ccttcttgtc atccgggttg caaacgcaca catgacacag 240
cacaacaggt tgcttagcat tatttcatct ggaaattga 279

<210> 638
<211> 513
<212> DNA
<213> A.fumigatus

<400> 638
cctgacgcag ggggcgcggg gaaaacacag acagctttgc actatgccgt ccaaaatctg 60
tcaaaatacc cgtcagggat tgcctttata aacgcaacat cagtgatctc actttcggca 120
gactttgacc gcttacatga ccttcttagg cttggagatt ctaaggacaa gattggcgct 180
gttaaaggct ggctctcccg gcctgaaaac aacaagtggc ttctggtgtt cgataatgca 240

gacgacctgg acaacgttcc acttcataag ttttacccgg ccgtgaactg gggccacatt 300
atcatcacca gtcgtgacca ggcggtgatt ggcagcatag ccgagaacgg ccacgttctg 360
agtcccctga cggaaaatga tgcggtgcaa ctactactcg aaaagtcagg gatccagaac 420
cctaccgaag gggatattga agatgcaagg accgtcacag gccttcttgg gtctcttcct 480
ctcgccttag ttacagccgg ggcattcgtt cgc 513

<210> 639
<211> 537
<212> DNA
<213> A.fumigatus

<400> 639
agaccagcaa tgttgaaggc tgtggaggca aagttcaagg aagccgctct caaggcgaaa 60
gatgcggaaa ttctgctcga gcatgaggcg ggattcctgg agccagaagg ggagctggaa 120
cggacataca aggtgcgaca ggatgagatc cgcgacaatg ttgctatcga gacggcgaag 180
aagggattcg agttgaagtt ggaagatctc ggtccatacc gggcagacta cacaaggaat 240
ggtcgggagc tgcttctggc tggtcggaaa gggcacgttg cgacgatgga ctggcggaaa 300
ggcaaattgg gctgtgagct gcaattggga gaaacagttc gcgatgctcg gtggttgcat 360
aacaatcagt actttgcagt tgcacagagg aagcacgtct acatctacga ccacgccggt 420
gttgagctcc actgtctcaa caagtatatc gaaccgctct ttctcgactt tctcccatac 480
cattttcttc tcgttggcgc tgtaagattg acccttttt ttggatctga tacctaa 537

<210> 640
<211> 525
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (42),(43)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 640
cccttcaaca cccccaagat tggtaagcct tcatcatctt tnntggacca aatccccggc 60
gacatttacc gcggcgaatc atcccgcatc ttctttgaat tcttgaatcc attcgcgaga 120
actatcgcct tcaaagccgc ggacgcgggg ttcccaagtg ggaccagtcc cttccgctac 180
cgccagggtc agcgcatatg gttttacatg ccgttcatcc atgccgagga tctcgacatg 240
caggagcttg cgcggatcaa gtatgcggag atggcggagg atttcacccg gctgctggac 300
ggggatgcaa cggggttatc ggatgacgag gcgcagtgcc ggcagattct tctggagaat 360
cgggcgaggc tcgaggagca actgacgacg catttccggg tacagaggga gcattatgag 420
cccattgcgc ggttcgggcg gtttccgcat cggaatgtgg cgttggggag ggagacgagt 480
gacgaggaga ggaggtttct ggaggaggga aagatatttg ggtag 525

<210> 641
<211> 279
<212> DNA
<213> A.fumigatus

<400> 641
gcgtgcgaca gcttccccaa ggatgacccc aagaagcccg tccacctgac ggcctccatg 60
ggttacaagg ccggtatgac caccgtcgtc cgtgatcttg acagacccgg tgccaagatg 120
cacaagaagg agattgttga ggctgttacc atcatcgaga ctcctcctgt atgttcattg 180
acccaaggat ttggttggtt acgaaaaagg ggcggtcact tacacttatt atctatagct 240
tgttgctgtc ggtgctgtcg gttacatcgt cttcaccgc 279

<210> 642

<211> 783
<212> DNA
<213> A.fumigatus

<400> 642
cccaaaggcc agaatgctat aacgcgccag gaactcgatg cgaagccgtt gctgcagctg 60
ctggccacga gcatccggcg gccgctcacg atgctggtca ccgagtacgt ggtcttcttc 120
tcgacgctgt ggtcggcctt taccgtcggc acgctgtacc tcttcaccca gtccgtcgag 180
caggtgtttg tgggtctgta cgactggggt cctgtcacag ccggatacgt ccaggccgcc 240
attgtgattg gcgaagtcgc cgggtggttc tgctccatcc cctcggccca gctgtacttc 300
gcatcggcca gtcgcaacac cgagatgcct ggtctcccca tccccgaagc ccggctgtac 360
ctgtccgtgg ccggcagcgt ggttgggatc gccgggggca tgttcgtgta cgcgtggacc 420
tcgtacccga cgctcccgtg ggttgccccc gcggtgggcc tgttcatggt cggcgccggc 480
agcgtcgtgg tggtctctgg actcgcggac tacatcgtcg atgcgtacag ccagtacgcc 540
ggcagtgtca tggcctgttt cgtgctgggg gagaatacct tttcggcgtt tctgccgttg 600
gcggccatgc gcatgtataa tacgctgggg ttccagtggg ccagtacgct gctggcgttg 660
atcagtctgt ctctggtggt ggccccagtc gcgtttatcg tttgggggcg gaaagtgcgc 720
gagaagagtc cgtatatgag agaggtgatc aaggagaaga ggatgcaggc tggcttgcag 780
tag 783

<210> 643
<211> 825
<212> DNA
<213> A.fumigatus

<400> 643
gagcgcgtgt ccttccagcc cccgtgggtg aagaccgaca gactactgca agccagcctg 60
catcctcttc tccttgatca cctctctcat atacggactc ttctcgcgca ctttccgccc 120
ccaaacgata aacgcgactg gggccaccac cagagacaga ctgatcaacg ccagcagcgt 180
actggcccac tggaacccca gcgtattata catgcgcatg gccgccaacg gcagaaacgc 240
cgaaaaggta ttctcccccа gcacgaaaca ggccatgaca ctgccggcgt actggctgta 300
cgcatcgacg atgtagtccg cgagtccaga gaccaccacg acgctgccgg cgccgaccat 360
gaacaggccc accgcggggg caacccacgg gagcgtcggg tacgaggtcc acgcgtacac 420
gaacatgccc ccggcgatcc caaccacgct gccggccacg gacaggtaca gccgggcttc 480
ggggatgggg agaccaggca tctcggtgtt gcgactggcc gatgcgaagt acagctgggc 540
cgaggggatg gagcagaacc acccggcgac ttcgccaatc acaatggcgg cctggacgta 600
tccggctgtg acaggacccc agtcgtacag acccacaaac acctgctcga cggactgggt 660
gaagaggtac agcgtgccga cggtaaaggc cgaccacagc gtcgagaaga agaccacgta 720
ctcggtgacc agcatcgtga gcggccgccg gatgctcgtg gccagcagct gcagcaacgg 780
cttcgcatcg agttcctggc gcgttatagc attctggcct ttggg 825

<210> 644
<211> 219
<212> DNA
<213> A.fumigatus

<400> 644
cgcatgaaga tccctgcagg tattgtaatc ccagtaccga gcgccattgt tgtcatttat 60
tctgtacctc ataacaatac tcttgccccc cctgtagcac gatcaatacc ccataatact 120
aatttcggat cttatttacg agggacttgg ttgtttacgg ttgcttatta caacaatatt 180
gctgacagga tgctgtttct gacgtgcgta tttgcttga 219

<210> 645
<211> 642
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (605)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 645
attttacaaa tacattgttc ccatcgcagc ctccaccatt tacagtctct tgagcacatc 60
gtccagaacc tcctgcgtag tggccttgcc acccatgtca ggagaaagga acttgccctc 120
gtcgagattg gcgtcaacgg caccataaat cttggcagcg gcctgctcct cacccagaaa 180
ctcgagcatc agagcgacgc tgcgcagagt agcgatgggg ttggcgatgc ccttgccctc 240
gatgtcgggg gcactgccgt ggcagggctc gccaatagcg aaaccatcac cgacgttggc 300
gctgggcacg agacccaagc tgccaaccag agcagcagca ccgtcggaca gaatgtcgcc 360
gtacaggtta ggggcaacaa tcacatcgta gtactcgggc tgacggaaga gcttgtagac 420
catggagtcg acaatctgct cctccacctc aacagaggaa aagcgctccg cggcgagagc 480
cttgcgggcg gtttcccgga agagaccgtc tgtctgcgac aggacgttcg acttgtgggt 540
gatggtcacc atgggcttgg cgcggagagc agagctgcca gcggcatcac ggatcgtccg 600
acgtnttcac catcggaacc tagaaggatc cgagctagag tg 642

<210> 646
<211> 567
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 646
anacgtcgga cgatccgtga tgccgctggc agctctgctc tccgcgccaa gcccatggtg 60
accatcaccc acaagtcgaa cgtcctgtcg cagacagacg gtctcttccg ggaaaccgcc 120
cgcaaggctc tcgccgcgga gcgcttttcc tctgttgagg tggaggagca gattgtcgac 180
tccatggtct acaagctctt ccgtcagccc gagtactacg atgtgattgt tgcccctaac 240
ctgtacggcg acattctgtc cgacggtgct gctgctctgg ttggcagctt gggtctcgtg 300
cccagcgcca acgtcggtga tggtttcgct attggcgagc cctgccacgg cagtgccccc 360
gacatcgagg gcaagggcat cgccaacccc atcgctactc tgcgcagcgt cgctctgatg 420
ctcgagtttc tgggtgagga gcaggccgct gccaagattt atggtgccgt tgacgccaat 480
ctcgacgagg gcaagttcct ttctcctgac atgggtggca aggccactac gcaggaggtt 540
ctggacgatg tgctcaagag actgtaa 567

<210> 647
<211> 618
<212> DNA
<213> A.fumigatus

<400> 647
agaagacgtt ctatttcccg tcatcgctat gatcctgatt tcagcagcac gacctatctg 60
agtcctgtcg tgcatgaaga tgtccgtatt catcgctccg cttcaacggg cgctcggcgc 120
cgccgtgaat tgcagccgcc ccccctcct cctgcagtca ttgttgatat taacaatgtt 180
tcccgcaaca aaagcacaaa caggagtgcc aacaagaacc gcaagcatcg ccaggaggat 240
acaaccatag tcgacatcga gtcggaggat gaaactgttc tccgaaagca ccgtcgaccc 300
cgtgccagca ccagcgtgtc tcgcgaggct tctcctcgcc atgaggcgtc tcctcgtcac 360
caacgtgatt ttgaattggt gattgatcaa cggatgctcg agaagaacga tgtacgccaa 420
gacctcgagc tcatgaagca gcagatggag atcgaacgtc ttgagcggga gcttgctcgc 480
cggcgcggtg aacatgagaa caaccagact caacttatta gagaagaaga gacctggtac 540

gaagatgaga tcagtgatcg tctaagacga cttggtcttc cccacggggc tggaaggatc 600
gacgggggtc aatcataa 618

<210> 648
<211> 186
<212> DNA
<213> A.fumigatus

<400> 648
atacatggaa gaaggtcagt cgagagtgtc aacgttatcg tctattctga ctcactggag 60
tatcttaaca gcctctgcat cattcatgcg gcacttctac gctcttcagc gagccattca 120
acgcaggccg agtcgctcga ctattgtaca atcttccgcg gatctatgcg aagtagctgt 180
gcatga 186

<210> 649
<211> 294
<212> DNA
<213> A.fumigatus

<400> 649
gcccacttca gcggtcagcc acatcagccc ctgggctgct gtaccttggc ctatgcgtac 60
gatttgtggc gcaacgaaac actgctgtct tacctctcgt tcgtacctta cgcaatagat 120
acattatctt acgaggagag atacagtcct gacgctctta ttccttgtcg aattatcaat 180
caatcgtcta acccaatcga aaaggacgct attgattctt ggagaggtag gaagacattg 240
aaatcaatac gccggatgct cttcaccacg agcgccagga gcgccaatag gtca 294

<210> 650
<211> 189
<212> DNA
<213> A.fumigatus

<400> 650
actatcagtt acgtatttta tatctgctac tttgcaattg caattcgtat caccatggac 60
ggattcctcg gtaaaatgat cgaaaagttc gctgaaaagg ctactggtgg cagcagcaac 120
agcggcggcg acggctactc ctctttacaa cagaagcaac cccaactacg gtggacaggg 180
gcaatggtt 189

<210> 651
<211> 207
<212> DNA
<213> A.fumigatus

<400> 651
ctcattattt tcctacttat tcctcttatt tttacttccc gacttgccct cgctcgcaac 60
ggcgctctca attttacaaa ttccccccgga tttttaacct tcttcatctt ctcccgggcc 120
tcacttgttg aaccttccgt tacgctttcc atcgtccccc ttcccctccc ccctttgact 180
cgctctccca tcttccacaa ctactga 207

<210> 652
<211> 324
<212> DNA
<213> A.fumigatus

<400> 652
cttgccagac ttcctatctc caagatcctc aacaaaatcc ccacggcaca cgagaacctc 60
gcatccacgc acgacgcctg gctcaccacc gcccgcgcca tctgtacaac agacaccttt 120

cccaagctgc tctcgcgaac cttcgccctc ccctcgtccc ccggccgcac ctacagcctc 180
gccggcatga ccaaaggcgc cggcatgatc cacccgaaca tggccaccct cctcggcatc 240
ctctgcaccg acgcccccat cgacccctcg gccctgcagt ccctcctcag tcttcaccac 300
gggagctgcc gcatccgcgc ttag 324

<210> 653
<211> 690
<212> DNA
<213> A.fumigatus

<400> 653
acactggaca tggccatgcc cgcctccaag cagaaataca tcccgtcctc tggatcctat 60
ccaaagggat tcctcgtctc cggtacccat gttggtgtca aggcctccaa caccaagttc 120
ccggacctgg cattgatctc ctccgaaacc ccatgctctg ctgctgctgt tttcaccacc 180
aacaagttcc aagcggcacc tgttcaagtc agcaagaaga cccttgagag ccgccaggga 240
caaggcatcc gatcggtggt catcaactct ggctgcgcca atgcagtcac cggtaaggga 300
ggtctggagg atgcactgaa catgggcaag aaggtggacg agtgcaacgg actcagcgag 360
cccagcacaa tcgtcatgag cactggcgtt attggacaac ggtacattcc tcttcctctt 420
ccacagcccc ccccccccc cccggcgccc gcacacacac acacacacac acaaagctat 480
gaaagcctga ctagtcatga cttgccagac ttcctatctc caagatcctc aacaaaatcc 540
ccacggcaca cgagaacctc gcatccacgc acgacgcctg gctcaccacc gcccgcgcca 600
tctgtacaac agacaccttt cccaagctgc tctcgcgaac cttcgccctc ccctcgtccc 660
ccggccgcac ctacagcctc gccggcatga 690

<210> 654
<211> 219
<212> DNA
<213> A.fumigatus

<400> 654
cgacatgaaa ctcggcacca aaggagctcg agcaagttaa aaggcatgcc tgaacaggca 60
ggcaagtatc ttgcttcctg gtcgtccgaa tgtattccta gctctttcgt cattgccctt 120
ggcccctcca tcacagtgca gggtctctca gcaatcgaca accggagtac gcaccgcgaa 180
tcagacatct ggtacttgag agtatttgta aagaactag 219

<210> 655
<211> 408
<212> DNA
<213> A.fumigatus

<400> 655
tgtgtccagg gctctgttac actgcttgga gatgcgtgtc atccgactct gccgtatcaa 60
gcgcaggggg ccgccatggc ggtggaagat ggcgcagtgc tgggactgct actccaccac 120
gtagcatcct caccggacta cagatcaaaa atcccacagg cactaaagct ctacgaagat 180
cttcgcaagc cacggaccgc ccggaacgtc caaggcgcca tccgcaaccg acgcgggttt 240
caccttgaag acggcctctt acaacgactg cgtgacctgg ttctgagctg gtcgggcctg 300
actcgggaga cagactggat tggactgatg tcttcgcgac aacgagctgt tcttggattt 360
gatgtactgc aggaggtaga gcaaaggatg ccagagctat ccacctga 408

<210> 656
<211> 219
<212> DNA
<213> A.fumigatus

<400> 656
atatgcagaa acggccagac catcatgcga ttgccagacg taaactccca cccagaaaca 60

tccagctccg gctgccgaag gagcgccctc aactcctccg gggtcctaca ccgcaacgtc 120
gacaccaacc catcgaacga acagaccacc gagaacagcg gcaccacata tgtgaagaac 180
agatgcaagg gcgaatgcca gtactgctgc agcgtatga 219

<210> 657
<211> 1125
<212> DNA
<213> A.fumigatus

<400> 657
ggtagtcctt ccggccgctg gttaagactc tcgacggatg tcgaggtcga atcgcgtacg 60
agtgaggccc ccgcatctct tttgtggagc ctttctggat cagtagaagc cgccaaagag 120
ggcgagtcgg ggctcaggcg agtctctttg ggcaaaccat cctcaatcgc tcgttatttt 180
gccctagtac gggtatggat tccatggctt gggcctagac atgggaagaa gaatttcagc 240
ttgacagagg atgccgtatt atgttccttc ctgcggactg acggttctca tttggttctt 300
ctggcggtct cggggattag cgatgtcctg actgtgcttg cttcgaacga aaaaggggaa 360
gtcgtgatta aagccaagtc tgatcacact gaagcaagca agttccaagt tcttgcttcc 420
gccgctgatg atttcgaggt agcaatgagc gctgttatat acgaagctcg gaaaatggtc 480
aggccgtacg ctacggaggg attgtctgat cgatcaccga ctccagtctc gcccatggac 540
aacgatattg tggtggtcga aaaggaccct caggcgcaat ggatgtcaga gtggtatgat 600
gggttgggtt actgtacttg gaacgggctg ggacagaacc tgaccgaaga aaacatcctt 660
ttcgctctta actccttgaa ggagaaggga atcgaaattc aaaatctgtt tatagatgac 720
aattggcagg ctctcgacaa cgaaggcgag tcacagttca acagggcgtg gacacggttt 780
gaggcagatt ccaaagcctt cccacaggga tttaaacgag gcatagagac catccgccag 840
aagcatcgga atattcagca tatcgcagtc tggcatgccc tctttggata ctggggtgga 900
atctcgccca acggggatct tgcccgagcg tacaagacca aagaggtgca gattacagat 960
ccggccacag gagggaccgt tgcgcacgcc tctgagaagg ggtcattgct ggctattgat 1020
cctgaagata tacagcgctt ttatgatgat ttctacagct ttctatcatc tgttggtgtt 1080
gattcggtca aaacagagtc ttgcccacgg gtagacaatc cgcgt 1125

<210> 658
<211> 411
<212> DNA
<213> A.fumigatus

<400> 658
gactgggatc gacttcgaag catcatcgcc ccgaccctta ccgtggacta caggcagatc 60
ggactgcgaa agtgggatga catgcctgcg gaagactaca tggccatgat ttctgacatg 120
gacttcttgg gtgaccccac cgtcaagacc cagcatctgc tgggcgagtc ctggtgggaa 180
aagatctccg ataccgaggt cattggccac catcagctgc gcgccgccca tcaggtctac 240
acggacagca ccttgcaaac tgtcaagctc aaggggcacg ggcatgccac caatgagcac 300
tactaccgca aggtcgacgg cgtgtggaag tttgccggcc tgaaacctac cgtgcggtgg 360
aatgagtatc aattcgagga tgtcttccgg gccgcgaagc catcagtctg a 411

<210> 659
<211> 597
<212> DNA
<213> A.fumigatus

<400> 659
ctcatccggc tgatactcta cgctgaaacc aagatcttgt ctagcatcat ggcttcctct 60
caggacaatt tcgtgtccaa aaccaatccc gatccctatg atcagatcat cgtgctctcg 120
cagaaggtga taaatgcagg gttcaagaac atgtggaagc ttgcccaggg agatgacgat 180
agtccgttga cacactttaa gaagagcatt cacggggagt atattgaagc tgatgtcggg 240
atcccttccg tgaagctcca tgtcgaaagt cgggagccca tgttatattt tctattggcc 300
ttgaagaatg gtgaaatggc tgtgtacgag agtgatgatt ccgacacact cttcaaatgg 360

gatatcaagg actgggtcct cgcgttcaac gtggttctta gtaagtgcaa tgggtgtcct 420
tcaaccggca gaagcatgga accggcccct aaccaccctt ctctccctct actagaccag 480
aagaagatca ccaaggactc ggaggaatat agaaagttta aggagcgtgc agggcttccc 540
gagtcgaact tctctctcgc gcagctcttt attgatgcgt catgtgggtg cccttga 597

<210> 660
<211> 201
<212> DNA
<213> A.fumigatus

<400> 660
ggagttctgg gacgtgtggt gcaggcaacc aacgctaaag ttcgtgcagt caacgaatac 60
gcaccgtctt tccctcccac cagcatcgat tacttctgtt acccatggcg tggagtggat 120
ggaagtgggg cgaataagga tgaccaggac agcaatgctc tggcctatct cttgatgtcc 180
gattttaaga acccccgtct t 201

<210> 661
<211> 219
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (102)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 661
ccaagtttgt taggcgttgc ctggttaata ttttcaaagg attttgaaga atttgccgat 60
tcgccattgg ggtgctccaa cctcttggtt gccatatgtt tnaaaaagcc tgtcaataaa 120
ttctgtttta ccttcagcca gttctgcgga aatacggcgc gtttcaagtt ccgttttcag 180
atcggccact ttccaattgg aattaatcag tcattgtaa 219

<210> 662
<211> 318
<212> DNA
<213> A.fumigatus

<400> 662
tccttccatg gccgtggtga agaatttgat gcctcagtac agatgaacgt tacgaccctc 60
tcggtgcgat acatgctgaa gcccttcaaa cctggtgaca aactaagtga ccacgccgtc 120
cctattggtg tggtgatgca acaactacaa acccaacttg ccgaatacag agcgctcaag 180
gaacaactgg ctgtcggtgg tgcgggcatc actggtgtgt catccagctc tccaggagct 240
gaaggtcagg atactggcga gagcgatccc agctccgcgt cttcgtcctt cctccaactt 300
gctacatcct cagagtag 318

<210> 663
<211> 240
<212> DNA
<213> A.fumigatus

<400> 663
gatgaaaccc aggaggagaa aactcccaga tatactccct acgttagccc actgagatgg 60
ttcaaggctt accgctacca ccctagattc actgagaatg tctcgggcgg ctttcgatcc 120
ctaacataca gccacaacat cgattctgaa aaatatctct gttcctacaa agctactggc 180
ggtgtctgca atgaccggtc atgcgaactc cagcactttc gtgacataac tcttagccgt 240

<210> 664
<211> 978
<212> DNA
<213> A.fumigatus

<400> 664
atgtgttcgg ctgctcctac aagtgaaacg ccgcctcctt tgctgaacca actgattcct 60
gcgggccatt gtgcttgccg gtctgctacc atcttcagct gtgatagctg cctccagtgc 120
tctgcttcca ccttgcctcc gagcccttcg cctcctcata tcacctttga tccgaatgaa 180
tactcctaca atgagacaca atgccattcc ttcttccctg gcttgttcga agatcccaca 240
cgcgctcaaa cattctggca ggccaagaat gggatccgca gggctgacct cgacaatgtc 300
caaatgatga acggcatggt cagagcggcc gtctacaaag gccgtctgta tgtccttacc 360
gctctcgcga ggggggaaga tcaccgccgc aaaatcatcg gagtgttaag ctcgatccac 420
cgcgccctga tctcagcctc ggaccttgct gtgatcccag acacagagtt tatcttctcc 480
gttgaggaca aaatggaaga tatcgcggga cccggtcatc ctctctgggt tcttgcgaga 540
aagccccacg aagagtccgt ctggctcatg ccggactttg gcttctggtc ctggggccat 600
cttgatagcc agatcagacc gtatgaccaa gtggtggagc atgtccgaca gcgggaggtg 660
ccctgggacc agaaacggga taagctggtg tggcgggggа agcttagctt tgcaccaaaa 720
ctgcggcgga cgctgctcga ggttgcacgg ggctatccgt ggggtgatgt gcgagaggtg 780
gagtggagga acaaggccaa cttcctcagc atggaggagc attgtgacta caagttcatc 840
gcgcatgtgg aagggcgttc ctattccgcg tcgctcaagt atcgccaggc gtgtcagtcg 900
gtggtagtga ttcataaact gcagtacatc cagcatcacc actatctcct cgtctcctcc 960
gggccacagc agcctttt 978

<210> 665
<211> 219
<212> DNA
<213> A.fumigatus

<400> 665
ttacaaatac taagacatat tggtattata gtcgatcacg gaaagtcgac tctgaccgac 60
tccatgatcc agcgtgccgg tatcatctcg gctgctaagg ccggtgaagg tcgttacatg 120
gacactcgtc ccgatgagca ggaccgtggt atcaccatca agtcgactgc catctctctc 180
tatgccaagt tcccagatcc ggaggatctt aaggaaatc 219

<210> 666
<211> 216
<212> DNA
<213> A.fumigatus

<400> 666
aatctgggat gtgcgttttt tttcccgtac tgttgccctg ccatgattat tacctactat 60
tgcccctcag atttttcctc tcgtctaaca gcctacaaag ctctggaggt tgataccagg 120
tacctacgtg cccctcatga ctgccttgtc tccgtaccat gtatttcgtt cctcaaccta 180
gccatgcaaa ttcgtactca tttattgacc gactag 216

<210> 667
<211> 660
<212> DNA
<213> A.fumigatus

<400> 667
ttgaagttta ataatacagg atccattgtt cgtcatttct gtggagatca tcctggctgg 60
ccgcacactt gtccacacgc cttcgccatg ggtcgcaaac caaatcaact catcgtcgag 120
ttctttattc gaggccaaaa gctcgaggac gccagtaacc gctaccaaca cacgtgcaga 180
gcctgcggag agaagttccc caaaggtcgc atcgacagcc tgaccaacca tttggtgaag 240

aagtgtcaag cgatcccgct gcgtgacaga caacgcgttc tgctgcgact ccacgaactc 300
cctgaccttg ccgacggcga tcagaacaag gatcccaacc tggcgggcca gggaaaaggc 360
aaatcggtta atctaccata cacgacagga cagaattttg atggcctgaa cgtcctggca 420
gaagcctcga gacaagtcgg cgcctccgac cagaccaaac ggggcggccc agcatatgct 480
cagtccgtca ctgttggtgg taagactgtg gttgttgacc cggcgctgga ggccgaaggt 540
tttcaaggtc atcctactca acccgagcat attgaggagg acatcaaacc gcctggtaag 600
attcttttct ttcctttatg tcctcatcac gagggccagg accgccttat tttcgcccat 660

<210> 668
<211> 807
<212> DNA
<213> A.fumigatus

<400> 668
tcgaggagtt gctcgatagc cagaccattg atggttgtcg caaggtattc gattatttgg 60
agtcccgccg agaacggaat acaaaggtcg atatttcctt ctgtcactac aactcatgca 120
gtacatccgc tgatactgtt ccagaaacac ttcaagcaaa agagcttgat tatccttaga 180
tcctgcaatg agctgcttcg gaggctgtcc cgggcagagg acacggtatt ttgcggccgt 240
gtcttcatat ttttatttca gagtttcccg cttggggata aaagtgctgt taatctccgc 300
ggcgaatatc acaccgaaaa tgttaccacc tttgacgaga ttactaaatc aggagccaag 360
gagagcgatg atatggatgt ggaaatgccc gatgcgaagg aaacattaac agcaactgaa 420
gccctgggac atgatcatga tggccaacca ccaccttcgg ccagcgcttc tcagacgctt 480
gtacaagaac aagcaaaaat ccccaaactt atcgtctcga aaactgaaga caaggattcg 540
gagaaggcag ttgatttgaa cgctctgtac cctgttttct gggggctgca gacatacttc 600
tctgccccga caaaagtgtt tgattctcat cacttctcgt ccttcatgac tggtttggaa 660
aacacattga tcgcgttcaa gaatatcaga acagaccttg agaatcaaag tgccagtaag 720
acagccgagg aaatacggaa gtctacaaag cggaaacgga gcgtggatgg ccaaaaaatt 780
gcgagcagtt tcaacccaag tatctga 807

<210> 669
<211> 288
<212> DNA
<213> A.fumigatus

<400> 669
gttgtagtga cagaaggaaa tatcgacctt tgtattccgt tctcggcggg actccaaata 60
atcgaatacc ttgcgacaac catcaatggt ctggctatcg agcaactcct cgatcaacca 120
aaatatcaaa ccgggctcgc actgttctat gcacagtcag ctagctgttc ggtcacaaga 180
ctagacgact ggggccaacc attatcagaa aaaattgaga ttatgtcaag caaattccac 240
atgcgaatga acgagggctc gtcaattgtc gtgttcgcct acagatag 288

<210> 670
<211> 342
<212> DNA
<213> A.fumigatus

<400> 670
gcttttgatg atatgttaaa agagatctgt gccgcattgc tatctgcaga cgtctacgtt 60
cgcctcgtcc agaccctccg gaaatccatc aaatccagcg tgaacttctc ctcgttgcca 120
cctgccgtca acaagaagcg cttgattcaa aaggccgttt tcgatgaatt ggtagcgctg 180
gttgatccgc atgcagagcc attccgcccg aagaaaggac gatccaatgt gatcatgttt 240
gtggggttgc agggtgcggg aaaaacgaca acgtgtacta agctggcccg acattatcag 300
atgcgcggtt gtcttcacca cggggctgga aggacccgcg ct 342

<210> 671
<211> 813

<212> DNA
<213> A.fumigatus

<400> 671
cttaaatata gcgcgctcct tgcgcttcgt gatgaagacc tcaagaacgt ctaccacaac 60
taccgcgcct cgcttcccct ccgccgttct ctaggtctac ccgtctacct ccccatctcg 120
cctcccccgg caccctccac ctcctccacc aacaacaaga ccacaccttt ccgcgaagcc 180
gtgaaatccc aaaacctcag ccgcgccaac ttccagcttg tccgccgcgc cgcctacgac 240
gtccgccgca tgatcccttt caccctaatc ctgatcgtct gcggcgagat gaccccactc 300
gccgtcctgg ccctcggcaa cgccgtcacc cctttcacct gccgcgtccc gcagcagatc 360
aagaaggccc gcctgcagca cgcggcccgg aaacgcgcgg ccctcgccgc ccaccaggcg 420
caggcgcgag gctccgttac tggccccgcg gccggctccg acgccgagcg cgagctgctg 480
gcccgcgaat ttgcacatcc cggttgggtc gagaaggcct cagcgcagga gatcctgcag 540
gcgtgtgcgg cgttggggct tgtgcggacg catacccggc ccgcggcact ggtgccctgg 600
ttgtatcggc cgcggctacg gcggtatgtg gagtacctgg cgctggatga tgagttgatt 660
cggcaggggg gaggcgtccc ggccatggag gcggcggagg tcagcattgc ggtcgaggag 720
cgaggggggcg tgggcgtcgc ggacggcaag gagtattggg aggcagagag ggaggagaga 780
cggtggttgg agcgatggct cggaagagct taa 813

<210> 672
<211> 615
<212> DNA
<213> A.fumigatus

<400> 672
agacctcaag aacgtctacc acaactaccg cgcctcgctt cccctccgcc gttctctagg 60
tctacccgtc tacctcccca tctcgcctcc cccggcaccc tccacctcct ccaccaacaa 120
caagaccaca cctttccgcg aagccgtgaa atcccaaaac ctcagccgcg ccaacttcca 180
gcttgtccgc cgcgccgcct acgacgtccg ccgcatgatc cctttcaccc taatcctgat 240
cgtctgcggc gagatgaccc cactcgccgt cctggccctc ggcaacgccg tcacccctttt 300
cacctgccgc gtcccgcagc agatcaagaa ggcccgcctg cagcacgcgg cccggaaacg 360
cgcggccctc gccgcccacc aggcgcaggc gcgaggctcc gttactggcc ccgcggccgg 420
ctccgacgcc gagcgcgagc tgctggcccg cgaatttgca catcccggtt gggtcgagaa 480
ggcctcagcg caggagatcc tgcaggcgtg tgcggcgttg gggcttgtgc ggacgcatac 540
ccggcccgcg gcactggtgc cctggttgta tcggccgcgg ctacggcggt atgtggagta 600
cctggcgctg gatga 615

<210> 673
<211> 576
<212> DNA
<213> A.fumigatus

<400> 673
gctcttccga gccatcgctc caaccaccgt ctctcctccc tctctgcctc ccaatactcc 60
ttgccgtccg cgacgcccac gccccctcgc tcctcgaccg caatgctgac ctccgccgcc 120
tccatggccg ggacgcctcc cccctgccga atcaactcat catccagcgc caggtactcc 180
acataccgcc gtagccgcgg ccgatacaac cagggcacca gtgccgcggg ccgggtatgc 240
gtccgcacaa gccccaacgc cgcacacgcc tgcaggatct cctgcgctga ggccttctcg 300
acccaaccgg gatgtgcaaa ttcgcgggcc agcagctcgc gctcggcgtc ggagccggcc 360
gcggggccag taacggagcc tcgcgcctgc gcctggtggg cggcgagggc cgcgcgtttc 420
cgggccgcgt gctgcaggcg ggccttcttg atctgctgcg ggacgcggca ggtgaaaggg 480
gtgacggcgt tgccgagggc caggacggcg agtggggtca tctcgccgca gacgatcagg 540
attagggtga aagggatcat gcggcggacg tcgtag 576

<210> 674
<211> 264

<212> DNA
<213> A.fumigatus

<400> 674
cctccgccgc ctccatggcc gggacgcctc ccccctgccg aatcaactca tcatccagcg 60
ccaggtactc cacataccgc cgtagccgcg gccgatacaa ccagggcacc agtgccgcgg 120
gccgggtatg cgtccgcaca agccccaacg ccgcacacgc ctgcaggatc tcctgcgctg 180
aggccttctc gacccaaccg ggatgtgcaa attcgcgggc cagcagctcg cgctcggcgt 240
cggagccggc cgcggggcca gtaa 264

<210> 675
<211> 732
<212> DNA
<213> A.fumigatus

<400> 675
cctggttgtt gctccagcct cggcgctttc gaatacttga cgatcggaca caccgtcttt 60
gcgatcgggc ggttcctgac tgccttcatg caatggttct tgaaaccacg atgggttctg 120
atgctttcgt acattggcat gattgtgttt gcagtgctat gcatgaagac gaccggctcc 180
actgcggtcg ccatgagtct gatggtctac ctctttgaga gcggcgcatt cagcacgatt 240
ttcgccctgt ccctccgtgg caccgcccgt catacgaaga cggctgcttc gctactggcc 300
acggccatca gcggtggagc ttttttcccc ttcgcgcagt acgccgccga gctctcgggt 360
ggtgtttcct actcgtacag cgttcttgtt gcgcttttct gcgccggcgc tatctttccc 420
ttgtacttga attttgtgcc ggccgccaag aagcaggtcg accccgtccc cgacgagtat 480
ctccgccgtc accgccgtcg tcgtagctgt gtggccgcga acaaaaccct cgctcccgtt 540
ccccgcgaga aggataaccc ctcagttggc ggcgttctat cccgccgtcg cagcgtattg 600
agcgatccac ttcctaccat caacctcccc gaaacaacct acaatccgat gtcaagtccc 660
agcagaacga atcttccaga agaagcagtc atcgtcatca tctgccagga gcggcggcgg 720
gctcatgcat ga 732

<210> 676
<211> 222
<212> DNA
<213> A.fumigatus

<400> 676
tatggtgaat tatctggatg tatgggcttc tcaggagagg gataccaggc ctacttaaca 60
gagattgaca gtctgaaaaa ggccatttat atgatgtgta tatttaactc acaatatagt 120
ggtatattca tccatcgcgg gtttatttt ggttatacct tcacattgac gcctgaaagt 180
tttatgtaca tgtctgctag atgtaccgct caatactttt aa 222

<210> 677
<211> 387
<212> DNA
<213> A.fumigatus

<400> 677
acagccggct tctcggtcgc accactcgga gacattcatc ctgccattga agtatctttc 60
ctcgcgatga tgtacatttc ttctgacttc ccaaccgcca tcaccatgcg caaaaccaat 120
gtatacgaag aaaggagtgt tggagtctac gagcatgact ccgtttcaga agcagaatct 180
aggaacggaa aacatgttgg actggccgtg cacatccagc gacaactggg attcgatctc 240
tggtacgtca tgctcgaaat cttcctcatt gcaatcacgg aaggggccg tctccagaaa 300
gctgccgacg agacgacctt ctcgctcttt tctgttccct ttgagattgt atcctacggg 360
actgccgggc tctccgggat atcttga 387

<210> 678

<211> 219
<212> DNA
<213> A.fumigatus

<400> 678
ctgagcacct catccttgtg tgatgcaact gcaacaatgg ctcaaacact ggcagccgcc 60
tcgctggttc tcgtcccccc tgtgactgcg cagcagatcg ggtccatcgc tgagaaccac 120
ccggagctca aaacatacag gtgcggttct caggctggct gcgttgcaca aagcacctca 180
gtggttcttg acatcaacgc acactggatc ttcaccacg 219

<210> 679
<211> 234
<212> DNA
<213> A.fumigatus

<400> 679
gtccggcacg agttttgcaa ccttgagact cctttcgaag ccaaggctca tgatcaggca 60
gagtccgctt ctcacagaac acgttataag actttcagac aaactcaatc ggtactccgc 120
ttgtcctcgg attcttcccc aatgattgtg ggagccaagg ataacagggg acgacagcct 180
attcaacaaa tcttcctcta cttgctgagc atgatccctc ttgcattgtt ataa 234

<210> 680
<211> 384
<212> DNA
<213> A.fumigatus

<400> 680
ccggcaaggc ctatccgggt atctgcctcc acgaccagaa ttgctgggga aacccccgtg 60
gtcaggtacg ccagggcctc cattgtcgtc ttcccaactg accaccaggc ctaccaatgg 120
taccgcacct ctgacacgtc ctggcgggca cacgagatct acggcgacaa tccacccaag 180
tggaacttcg cagctcagcg cccagctgat ctggtggtca tcaacatcgg cacaaacgac 240
aacaacccgg cgaacaatgt atcgagcaca gactactaca acgactacat cactcttgtg 300
ggcaatattc acaagatctg gcccaaggcc gatatcgttc tgatggtgag tctcctcggc 360
aaattggata tggtaggatg ctaa 384

<210> 681
<211> 486
<212> DNA
<213> A.fumigatus

<400> 681
tctggtggtc atcaacatcg gcacaaacga caacaacccg gcgaacaatg tatcgagcac 60
agactactac aacgactaca tcactcttgt gggcaatatt cacaagatct ggcccaaggc 120
cgatatcgtt ctgatggtga gtctcctcgg caaattggat atggtaggat gctaatgacg 180
cagtcgctgt ggggtggctt cggtgcttcg ggggatacat acgtgcaggg tcctttatgg 240
gtggatgaga tcaagcgggt ctaccagcac tacgagaagc aggggttcat ccattatttc 300
gacacggcgg ggatcctgca gcacaacgac atcgcgccgc agtggcatcc cacggatgtt 360
ggacatctga agattgccgc gcatctgatg cagtgggtga agttgaagtt tgggtgggaa 420
tttggggcta ccggccccga ggtgtatcac ggaactttgt actggaatga tcaggcaaat 480
tactag 486

<210> 682
<211> 192
<212> DNA
<213> A.fumigatus

<400> 682
gacgcgtttc cttccagtcc ccgtcgtgaa gagtggaaga ccaggtggtt cgtgctagat 60
ggttggctga accttgtgta cttgttcgat attggattcg tcgcctatct ttggcggcct 120
actgcgaaca acaggcggtt cgcaatgagt gacgaggtat gtcttggaca acgcttccat 180
ggcgcccgat ga 192

<210> 683
<211> 612
<212> DNA
<213> A.fumigatus

<400> 683
agactacttg ttctcagagg atccgcagga agcggcaaaa caactacgtt gtcgctattg 60
tcggacaagc taggtttcga tgttctcgaa tggagaaatc cgtcgggatc tgaatttgcg 120
gcgaaaggat tcacgtccac aacagcgcaa ttcgaagaat tcttaacaag aggaaatcga 180
ttccgtgggc tcgagtttca cggcgcgacc ggttcatcag caagcaagtt caacagcagc 240
gatcatatga cgccacgggt gattctcatt gaggagttcc caacagtctt tgatggagat 300
tcccccggtt tagccgcttt ccgactgtct ctgcagcggt atctctcagt gtcatcctca 360
ccgagaagca atatccggaa cgatatcgag agacacggga gctcacctgt tgttattatc 420
gtttccgaga ccatgttgaa taccgaggga tcctattcgg acaacttcac agctcacaag 480
ttgctggggc cagatattct aagccacccg tgcacaacga ttgttgattt caatgccatt 540
gctccaacgt tcatgttcaa ggccctgaac ctggttctag agaagcatat ccgccgatat 600
agatcagctt aa 612

<210> 684
<211> 858
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (552)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 684
gttggcaaag ttgctgctgc cggctcagtg gctggtctgc tcagcttgct atactacgtg 60
cctccccgtc atggatcatt gcaactccca cacgcctttt accaactgca ggcatatctc 120
cctagtctgc accgcctgct gccgtcctcc atgaccggca tgcgcctgcc acaggggggc 180
ttcgccaatg gattcgcagc cgcagcccta ctctccgcga tcatcaccgg catcgtgggg 240
atgcaagtgt cgaaactgac caagatcgac tccggcttta ctcgataccc ccctcgtatc 300
aagagcaagc cgagtcccaa ggcggatcct cacagcattc ccggcttcct caaccccaag 360
gactacaaga cgctccctct ggtgcagaaa gccctcctcg cgcccaacgt ctaccgattc 420
gtcttccaac tgccatcagc cacagatatc gtcggcctcc cggtcggcca gcacgtcgcc 480
ataaaagcca ccgtcgatgg ccaaaccgtc acacgatcgt acacgccaac ctccaacaac 540
ctcgaccgcg gntacctcga gctcgtcatc aaatgctacc cggacggcct tctgaccggc 600
cagtacctcg ccaacctgca agtcggcgac aaagtgcact tccgcggccc caaaggcgca 660
atgaagtacc agcgcaacct gtgcaagaaa atcggcatga tcgccggcgg cacaggcatc 720
acccccatgt atcagctgat ccgggcaatc tgcgaggacg acaaagatac caccgagatc 780
agcctggtgt atgccaaccg cagcgagggg gatattctgt tgcgcgagga gctggccgct 840
gctcaacgcc agggctga 858

<210> 685
<211> 744
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (427)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 685
tctgcaccgc ctgctgccgt cctccatgac cggcatgcgc ctgccacagg ggggcttcgc 60
caatggattc gcagccgcag ccctactctc cgcgatcatc accggcatcg tggggatgca 120
agtgtcgaaa ctgaccaaga tcgactccgg ctttactcga tacccccctc gtatcaagag 180
caagccgagt cccaaggcgg atcctcacag cattcccggc ttcctcaacc ccaaggacta 240
caagacgctc cctctggtgc agaaagccct cctcgcgccc aacgtctacc gattcgtctt 300
ccaactgcca tcagccacag atatcgtcgg cctcccggtc ggccagcacg tcgccataaa 360
agccaccgtc gatggccaaa ccgtcacacg atcgtacacg ccaacctcca acaacctcga 420
ccgcggntac ctcgagctcg tcatcaaatg ctacccggac ggccttctga ccggccagta 480
cctcgccaac ctgcaagtcg gcgacaaagt gcacttccgc ggccccaaag gcgcaatgaa 540
gtaccagcgc aacctgtgca agaaaatcgg catgatcgcc ggcggcacag gcatcacccc 600
catgtatcag ctgatccggg caatctgcga ggacgacaaa gataccaccg agatcagcct 660
ggtgtatgcc aaccgcagcg agggggatat tctgttgcgc gaggagctgg ccgctgctca 720
acgccagggc tgaaggtaat gcgc 744

<210> 686
<211> 216
<212> DNA
<213> A.fumigatus

<400> 686
gcctcggtcc aaatgggggt gtcttccctg aaagcttgcc ttttaggatg taaaatctcc 60
gtgaactcca actcatatcc agaggatgtt gacgatgtca tcctccgact gttccccggg 120
gaggttgcca cctatacatt ggcaggaggc aaccctgaag ctgcttctcg cagcggatgt 180
caacctactc gatcctttgc gtctggcagt caataa 216

<210> 687
<211> 378
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (231)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 687
aactcttttc gactggataa tgtttcaaaa gattcgacag actggattgg ccccaagcca 60
ggagggagtc ctgggcttga ttgcctccct atcggcgccg cctctgaagc aaaatatcga 120
cggtttaccg agaggttccg ccccgaggaa cagcttctct tgaaagatat tgtgtaccag 180
attatgcgca gttatctcaa catcccctta ggctccctgg aagacacctg ntcaggactc 240
cttttcttta ctgccctagc tggaaacctg gcgcgggtcg aggatctcgt gaaggtcgct 300
catgcagcga gcagtgaaag tgcacactgg ttgtgcaaat atgttttcac cacacggggg 360
tggaagaatc agcgctag 378

<210> 688
<211> 477
<212> DNA
<213> A.fumigatus

<400> 688

aaagttcgtc agggccaact ctggatacca gaggcttgga atacagattc caaaggctct 60
ttcagatcag attgttttgc tcgtttctcc atatccttgt caagcatgtt gttcacagca 120
gtgactcttg ctcttctggg ccaagctttg gctggcccgg ttgagcttga agaacggcag 180
agcagctgtc ccaatatcca tgtctttggt gctcgtgaaa ccaccgcacc cactggctat 240
ggttcgtcgt cgaccgctgt caatctgatc ctcaacgcct acccaggctc cacctccgag 300
gcaatcaact accctgcttg tggaggtcag tcctcctgcg gcggagtcag ctatgccaac 360
tcggtggttg ccggaatcaa cgctgtcgtg agcgccgtga actcttttaa tcagagatgt 420
ccaaacactc aactcgtcct tgtcggatac tctcaggtat ttgtttcccc agattga 477

<210> 689
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (170)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 689
aatattcagt cacgtctgat cctgctacag ggtggccaaa tcatggataa cgctctctgc 60
ggaggcggag atcccaacca gggctacacc aacacggccg ttccgttgtc ctcatcggcg 120
gtcaacatga tcaaagcggc tatctttatg ggcgaccctc gcctatgtcn cgggtcttcc 180
cgtacaagtt cggcacctgc a 201

<210> 690
<211> 612
<212> DNA
<213> A.fumigatus

<400> 690
cgcattttcg tcggccatga ccaggacgtg gactgcgtct gctttcaccc gaattccgcc 60
tacgtcttca ctggcagctc cgaccatacg gtccgcatgt gggcggtcac cacaggtaac 120
gctgtacgaa tgttcactgg tcacaccggc aatatcacag ccttggcttg cagcagagac 180
ggcaaacttc tcgcatccgc agacgatcaa ggatccatcc tcttgtggga tctggcacca 240
gggagactgt tgaagcgcat gcgcggtcat ggaaaaggag gcatctggtc cctaagctgg 300
agcgttgagt cgactgtcct ggtctctggc ggcgccgacg gcactgtccg tgtgtgggac 360
gtcaccggcc cagcccaaga tccatcccag ggtcgtgtcg tcggagacgg cggagccggc 420
acaaaggtcg atggtggcaa tccctcggcc gcttcaaccc aaccctcgac ctcggttgct 480
ccgggaatgg gcaagaagaa aggaaaggat gtcgtcgtga ctcctgacca gatcagcgcc 540
ttcccaacga agaagagccc ggtctacaaa gtcaagttca ccaacatgaa tctgatcatt 600
gccggcgtct tc 612

<210> 691
<211> 267
<212> DNA
<213> A.fumigatus

<400> 691
ctgagaaact atttgtgctg ccgcaaactt agaatcccac ttattcctct attttcctat 60
tattacctag cagggttatt catgactatc attaccatca ttaatgcctg cattataaca 120
atgcaaagta gtgtcaactt gtgcaatggt aagcacagta ggacacagac ccccatggat 180
ctcatgatgc tgctcattgc taaccgaggc aggcgattgg actttaacta tcagatggag 240
cagcgcgaag tttcccacac attatga 267

<210> 692

<211> 198
<212> DNA
<213> A.fumigatus

<400> 692
aatcttgtta ttcaaataag ccaattgatc aacatcatta ttatcaaaat tattaatttc 60
caatattttc cccaatttat tcagtttgtt tacattatca tcattattgt taaatttatt 120
tttgatttgt cgataaaaat tctcttgttc aatcaatttt tgtctatcta tatcttttttg 180
cttttcatca ttagttaa 198

<210> 693
<211> 792
<212> DNA
<213> A.fumigatus

<400> 693
atttggaaga attcattaat tatctttgat attaaaccga aaaagaataa acgaaaacta 60
atacataata aaatatcgga taatttctta gaagaatatg gactttcaag ttatcaagaa 120
ttgaatcgaa atgttgatga ttataatagt atatatgaaa agaaacaaaa ggaattacta 180
actagaaaca atcttaataa tatccctatt gagaaattag atggatttat cattggtgaa 240
tcttcactta ttgataaaat caatactact gataaatcca aaaatatcaa gaaatcaaat 300
attcaaatat taactaatga tgaaaagcaa aaagatatag atagacaaaa attgattgaa 360
caagagaatt tttatcgaca aatcaaaaat aaatttaaca ataatgatga taatgtaaac 420
aaactgaata aattggggaa aatattggaa attaataatt ttgataataa tgatgttgat 480
caattggctt atttgaataa caagatttta cagaatgata atagtaaagc cacgacaact 540
ttagataatg atcttgattt attattgggg atatcatcgg atgggaaaga tgatgtcgat 600
aaagttgaat caaatgtaaa acaacaagat gacaattttg atacatttat aaataaatta 660
accatcaatg ataaagacga aacttttaaa aatgaacaac atcaatccaa attgagtttt 720
gataaggtta ataaaaaaca aaatcaaaat gatgctaaag atttagattt tctagatgat 780
ttgttaggtt aa 792

<210> 694
<211> 660
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (47),(49)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 694
ggggccaaag ccgccattgg gggcctttcc cccttgcaaa cccaacnant tccaccctcc 60
cttccggggg ttgtagtcgc ctggtccgcc ctcaaacaga aatatcgaga agtcatgcgc 120
gttgccgcct acgggtcccc ctcggttcag atccacttca tttatctcaa ggtggacaag 180
gacatcctga tcgagcgcgt caagcaccgt gatccctccc aatatatgaa gagcggcatg 240
gtccaattgc aattgcaggc tttcgaggaa cccccgggcg aatgggatgc gctgcccttc 300
aacggtgatg gtccccgcga ggaggttcag aagaccgttt ttcagttggt gtcggagaag 360
ctggcggaat accagggact ggggtattct gggtttgctt gccttatgac catttttttt 420
tttatatttt ttttttttt ttttttttt ttttttttt tctcggggga actgggttca 480
gttgcacgga ttgcatggat ctcttgcgcc gtccggtgtc tttggagttt tagagctgcc 540
cactcatgct tttgggagca tcatgatctg tccttgtcta tggagtccgc atcatatcct 600
ggagttccca tcggttgtga atctttatgt cttgtcatgg tgatctgtct gctattttga 660

<210> 695
<211> 306

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (37)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 695
agacccgatg cctcgcccat gggtgcgggt gccgaanaac ccgtcatcat tgaccagagc 60
cggatctacg ccccgccgga tcccttcgag acgccttccg tcggcgtcga gatccctgcc 120
gcggtgaacc ggccccgcac cattacggcg aaggtgccgc tgaaggagat ggtgggatac 180
ctgaagcatc tccgcagtct gagcgcgggt cggggcacgt ttgtgatgtc tgtcgatcgg 240
tttgagctta tgagcgcgca aaggcagaac gccgtgctgg cggagttacg cggaggcttt 300
tattga 306

<210> 696
<211> 645
<212> DNA
<213> A.fumigatus

<400> 696
gtagcgcgtg ttcttccatc cccgtgggtg aagaatgagc atcgccagcg aatctacgag 60
gaacgctccg cgctgatccg gagccgctcg gaacagttcg caatcgatac cttcggcagc 120
agtatctggg atcagtctct ctacaaggca tgggcaggga tcgtccataa gctcatcccg 180
aaccttaccg ttatcgaacg gtttctcacc gcgttcgcga agagaatcga tgcagaggag 240
gtcatcctct tcgagcgctc gaccttcctc accgtgacct ctgtctcatc cgagatcggt 300
gacatgaatc ccatctatga tcggcacgag cgcctctcaa atatcatgaa ggctttcaag 360
cactgcgctg cccgtaatac gcacacaaca cctgccacag ccggttttct ggtcatgcac 420
accaagaccc cgcagttcaa cgtcttcctc ggccgcttca cggacaatac atatatcttc 480
atggttgtcc cgccaggcga agcagcgtac aactgcgccg tcctgaacac catgttggcc 540
cgggaaggct tctccaaagc cgcggcggca ggctacgggg atgggttccc gctcccagca 600
tcggaccctc cagaagcgaa tatggctaat ggtgtcactg cttga 645

<210> 697
<211> 1026
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (185),(846)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 697
ggaactttca attatgggct tggagccagg tgcaccattt gcttgggagg cgccggccca 60
attcatggcg gcacgggatg cagaaatggt aatttccact tcgcgtttac tcttgactcg 120
ggcggtctcc taactacttt tttttggcag attcccgagc aagattggct gcgtgccgtc 180
attcntcatc tccttgtcga tcccaagatg gcccttgcat gtccgccgca gttgttttac 240
aataccctc cgtctgaccc tctcgcacag agtctggact tcttcgtgca tgtgattgag 300
ccaatcaagg atgcgatggg tgttgcttgg tgcactgggt ccggttatgt cgttcgacgc 360
gaggccctag acgagatcgg caacttccct cttggttcgt tggccgaaga cgtcgcaacc 420
tccacactga tgctcgggaa gggatggaag accgcgtaca tccatgaacc tctccagttc 480
ggtaccgtgc cggaagactt tggcggacat cttaagcagc gtacccgatg ggcaatcgga 540
accgtcgaca ctgccgtgaa gctcaaattc tgtctgtggg gtgacgccgt tcgacagatg 600
actgttgctc agcgcttttc gggattcctg tacgcaacac tcagcttgta caccctcctt 660

ctcactgcct cgattttcgc catccccatt attcttctgt ggggcaagca gcttgttgcc 720
tacgcgactc aagagcaact gcgttggctt atctgggcat gctttgcctc gaccatttcc 780
aaccgaatct gcgagttcgc cctcttcatc cccgctggct accacaccgg acagagaggc 840
tcgcgntacc agctttggat ggcaccctac attgcccttt gtattgtccg gtcattcatc 900
ctccccagat ggcttggtgg ccaggcccag gccttcaagc cgaccggctc actcagctcc 960
gcactcgaag agcgtgatcc gcaacggagg aagaatctta ccaggcggct ggaaattaat 1020
acgctg 1026

<210> 698
<211> 312
<212> DNA
<213> A.fumigatus

<400> 698
caaagaatgc cccgtggatt ccggaatacc taccaggctg gtcttatttc cgatgccgca 60
gggtggctcg acaatacgat taccgagcct ctgtatggca aagctaccag taaaacctcc 120
gccaccttcc acaccttcgg cccatacact gcagctatat gtctctgttg tgtgctggag 180
caaaattcag gacaaagagc aattgatgaa ggcctttgta agggcacagc gcttgcaaga 240
ggccgaggct ttagacgggg gaaaagtaaa aatttgccca agatgcctac gtcgagaaga 300
gaagcgttat aa 312

<210> 699
<211> 741
<212> DNA
<213> A.fumigatus

<400> 699
cttccacccg tggcgaatac tggtgccgag tacattatgg agttgaccga caagaccaag 60
gccgacgtca agggtggtac catcattgac tacgagggta aggcccgtct gctcgaaatc 120
gcccaggtgc ccaaggagca cgtcaacgag ttcaagtcca tcaagaagtt caagtacttc 180
aacaccaaca acatctggat gagcctccgc gccatcaagc gtgttgttga ggagaacgag 240
ttggagatgg agatcattgc caatgagaag tccatccccg ccgacaagaa gggcgaggcc 300
gaccaggcca tctaccagct ggagaccgcc gtcggtgcgg ccatccgcca cttcaagaac 360
gctcacggtg tgaacgttcc ccgtcgccgt ttcctgcccg tcaagacttg ctccgatctc 420
ttgctggtca agtcggatct ctaccgtctc gagcacggtc agctcgtcat ggaccccaac 480
cgtttcggcg gtgtccccgt catcaagctt ggatcggact tcaagaaggt gtcggacttc 540
caaaagcgca tccccagcat tcctcgcatc gtcgagctgg accacctcac aatcaccggt 600
gctgtcaacc tcgaccgcaa tgtcaccctg aagggtaccg tcatcatcgt cgccaccgag 660
ggcagcacga tcgacattcc ccctggttcg gtcctggaga actgtgtggt ccagggcagc 720
ttgaggatcc tggagcacta a 741

<210> 700
<211> 816
<212> DNA
<213> A.fumigatus

<400> 700
tcgcacatag tgtcgaccgc cctatcgttg tcgcaacgac accaagactg ccaaataacc 60
ctgctagaac aatctcctat aatccctaac ccgtatggtt cctccgttga cagttcgcga 120
atcgttcgcg ctgactactc gcatcccgtt tatgcgaaac tcgctgctgc cgccattgac 180
cgctggcgca acaccgaatg gggaagggaa ggtcgctaca cgcagaacgg actgatgctc 240
gtctggacgc ctggcaatga gaaggcgaaa aactatgcga ccaagagcta ccacaatgtc 300
aagcagttgg agggcgacaa ggtcgaacta ctcccgtcgg cagatgatgt gatgcggatc 360
gtgccagaat atgggaagga gttgaatgta gccgggggct acatcaactg gggctcacgc 420
tgggcagatg ccgcagcagg cgtgcgattc gcaaagaagc tactggacga acagggaaag 480
gtggttttca aaaccggcga ggtcgacagg ctccttcttg ccgatggcca gagcgccacc 540

tcccagcgca gagtcaccgg tgttgtcttg acggacggca cgacactcac ggccgatctt 600
gtcatccttg cgacaggcgc ctggacaggt aagcttgtcg acctccgcgg cagggccatt 660
tcaaccggcc aagcaatatc atacatgcac atctcagacg aagagcatcg ccgactagag 720
aacatcccca ccgtcctcaa cttcgccaac ggcatcttca ttatcccgcc tcgaaataac 780
ctcctcaaaa tcgcccgcca cgcctacggc taccat 816

<210> 701
<211> 201
<212> DNA
<213> A.fumigatus

<400> 701
aatggccctg ccgcggaggt cgacaagctt acctgtccag gcgcctgtcg caaggatgac 60
aagatcggcc gtgagtgtcg tgccgtccgt caagacaaca ccggtgactc tgcgctggga 120
ggtggcgctc tggccatcgg caagaaggag cctgtcgacc tcgccggttt tgaaaaccac 180
ctttccctgt tcgtccagta g 201

<210> 702
<211> 378
<212> DNA
<213> A.fumigatus

<400> 702
ccccagcgat tatcattatc ggcggtgagc accgacattt acgatgtctc gctagaagag 60
cttaccgaag ctgagactgc cttggctgaa cgggaaacag aagaccaata ctcattgcgc 120
gctcttcgca ccctctttgg aaggctatat aacgtgagaa agagcatcct ttgctgtctc 180
ctagctctgg gtgccgatgg tggcggatcc gacatcgtac gatggagcac ggctgttgag 240
cagatgcggg atcttactca agtcacggga gcgaataccc gcaagatgac caacattctc 300
aatgaagatg accgtgagtt ttcacctcaa tgtagagtgt tttccgatga tccgcctctg 360
actctgttcg taaggtga 378

<210> 703
<211> 300
<212> DNA
<213> A.fumigatus

<400> 703
acccctttta ttgcgggacg ggagaactac agattcgaat atctcctcat cttcgtcgac 60
actctgtata atgctcgggt ctggcttaat atcgccattc agcgcccgga gcgcatctgc 120
tgggcttccc tcaaccgcgg tggcaccacc aaggctgggt gtcggcgaca atggcagctt 180
caacccgctg ggcgggcgcg acatatgatc taccgacgat cgcttgtcga tgctgctcac 240
cagagcagct ttgccagcct cccattcctg aaggaggcct ctgatatccg ttccaattga 300

<210> 704
<211> 183
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (45),(46),(55),(88),(116),(133)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 704
actattacct tccgtctgga accggcacgg cccgaaggtt attcnncgga agaanatgga 60
cactcaagac agaacttttc tgggtcanaa actgtgaagc tcaggttccc cattangcgc 120

gcgactgtcc aanagttacg atttattcca caccggaaat atgatttgct gttggcatgc 180
taa 183

<210> 705
<211> 267
<212> DNA
<213> A.fumigatus

<400> 705
tctcaaggct tcgtatatac atcgtctact gacaggattt taggcacccc tcataacggc 60
agcagcctcg cagccatggg aaaggtcctg gcaaatattg tctcagcatt ttcgccaata 120
aggactcccc gagcgcttat agggacgctg cagaaggact cagaggtcct gttagaaatt 180
actgaagact tcctcaagag gaggcggaaa gttcaactcg tatccttcta tgagctcgag 240
ttcacttcca tcggcccctt tttatga 267

<210> 706
<211> 603
<212> DNA
<213> A.fumigatus

<400> 706
cctgcgcaat cgggccatcg ggtatctttg gtgttggcga cctggttttg ctccccggtt 60
atgctggatg cgtatttcag agggcagacc aaggtgcaga ttggcaacaa caaaaactta 120
ttcgacttca ctgagaacac aaatgtggca tacagtcact accttgcggc cgccgcgctg 180
gttacatgcc aaaatagcct gccgggggat gatgccaagg tggatggcga agccttttc 240
atcactaatg acgaacctat atacttctgg gactttacac ggctggtttg ggggtatgcg 300
ggggacacca cgcggccaga acaagtacag gtgatgagtc gaacatgggc attgctgctg 360
gctgcattgt tggagtggat cttctgggct tttcgcctag gcgaagcacc tctgacaagg 420
actaaagtgc ggctcagctg catgacaagg tatttctgca ttgacaaggc gaagcaacga 480
cttgggtata agcccctggt agggcttaag gacgggttaa gaactgcagt tgaagattgc 540
cttcggcggc ggacggcagc acaaagcact catacaagta atgtaaagga aaaggggcaa 600
tga 603

<210> 707
<211> 387
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (313)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 707
aacactgact gcgttgccat catcatgcct ctaacaccag aacaagttca aatcatcaag 60
gccactgtgc ctgtgctggc agagcatggc acaaccatca ccactgtgtt ctacaagaac 120
atgctcactg cccatcccga gctcaacaat gtcttcaata ccacgcacca ggttaccggc 180
caccaagctc gtgctctcgc cggggcgctc ttcgcctatg cctccaacat cgacaacctg 240
ggtgctcttg gacccgccgt cgagctcatg tgccaacaaa ccccctcgct gtacatcaag 300
ccggaagact acnaatattg tccgggaatt cctggctcga aacaatgggg ccaggtcctc 360
cggggatccc ctccccccc gagatcc 387

<210> 708
<211> 624
<212> DNA
<213> A.fumigatus

<400> 708
gagcgctgtt ccttccagcc ccgtggtgaa gattcgcaat ccatcaagac cacgagggac 60
gtccaattcc tgcagtgggc gggtgataaa accagagact tctcagcaaa tgcagtctct 120
gcagccactg agttgagccg tctactgcag gagggtgaca actgtgatca aggcattttc 180
ctctcgcagt ccaaggatgt catcgttggt gtctacatcg gctccgatat tcagcgagca 240
agtgctgtgg atatccttca gaattttgga aattcggcac cctcaggccc ggtgaaggcg 300
tctcagctcg ctgcccaggc gtgtgagaat gggaacaaga ccgcccaaac gctgggagtc 360
tttgcagatg ccaccggaaa tctggcatcc gttctcaatg cgctccaagt atgggataaa 420
gggcagtgcc tgactggcgc ggacaatcag caagtgtggt ccaacacgcc catcaacgtc 480
ttgaacagac atactactgt caggagcgac aatacgacca tcgcagctcg attgaagacc 540
aaggttcttc ctcgggatac atgcacatat gtccaagcca tcgcaaacga tggagttttc 600
accaggcggg gcaggaccaa gcta 624

<210> 709
<211> 1194
<212> DNA
<213> A.fumigatus

<400> 709
gtgaccttcg cactcaagag acaggcgctt ttcatggggc tcaacatggg tatggggcag 60
ttgggcctgg cgacgggccc catcatcgga ggggctttta ccacaaaggt gtcctggcgg 120
tggtgctttt acatcaatct gcccctgggc gttgtcgtcg gcggatttct tctcttcaac 180
acgatccccg aaccgaaacc caagagtccg cccctggaga ttctcggcac cgccatcaag 240
tctctggatc tccccggttt catgctcgtc tgtcccgcgg tggtcatgtt cctcttgggg 300
cttcagtttg gcgggaacca acacccttgg aacagttccg tggtaatcgg cttgctagtc 360
ggcgctgccg tcaccttcgg cctctttctg gtctgggagc atcgtcgagg agacaaggcc 420
atggtgccgt ttgccatggt caaacaccgc gtcatctggt cgaccgccat gaccatgttc 480
ttcaccctgt cgagcgtcct cgtggcggat ttctacattg ccatttactt ccaggcaatc 540
cgcgacgact cgcccttgat gagcggcgtg cacatgcttc cgatcacgct cggcctggtt 600
ctcttcaccg tggtctctgg cgccctcatc tccattttgg gctactatct tccctttctc 660
cttgccggcg gtgccatctc cgcggtgggc tacgggctcc tgtcgaccct cagccctacg 720
acctcggttg ccaaatggat cggctaccag attctctacg gtgttgcaag tggctgcacg 780
acggcagctc cctacatcgc tatccagaac ctcgtgtccc cagcgcagat ccctcaggcc 840
atggcgatta tcattttctg gcaaaacatc ggggcggcga cctctctcat cgcggcaaac 900
gccattttca gcaacagcct tcgtcatcag cttcaggagc gcgtggcaga tatcggcctc 960
gcgccagacg ccatcgtcgc tgcgggagtc cgctccatcc gggacttggt gtctggctcg 1020
ccgctggctg ctgtgcttga aggctacgct aaaagcatcg accgcgtcat gttactcggt 1080
ctggcggtca gcctcgccgt cttggtcttt gctccgggac tcggatggaa ggacattcgc 1140
aaagtcaagg attttcaagt tattggcatc cattcccctg acggtggtga ataa 1194

<210> 710
<211> 201
<212> DNA
<213> A.fumigatus

<400> 710
attgttcgtt cccggtggca tgtccctctt cagatcgtcg gcacggttat cgcagtcgtt 60
gcatacttcc taggccacgc tcacaagggc cgtcagttcg gaaagaacgt gcatgcctcg 120
ttcgcgaacc tgttgatgct tatgcttgtg gtgcaagtcg ttatcggtct ttatctcaag 180
ctgtcttcac caggggtcta g 201

<210> 711
<211> 552
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (524)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 711
ctaaccatct ccagccatgg gattgactct ctcaactgca ctctggctag tctgctggag 60
acagcagcaa tgggctttgg ctcttcccag ttaggagcct acacggctct tgttccctgt 120
ctcgcaatgt acttttcgac ctgggagact taccacacac atactctcta cctgggatac 180
atcaatgggc ctaccgaagg cttgctcgtt gcaatcggaa tcatgatcgc ttcaggatac 240
tatggtcctc agatatggag tcggccgatc gttgaattcc tgaattttcc ccagatattt 300
gggaattatt cggttaaaga tgtctgggtt ccattcctgc ttctatcgtt ctttgtcggt 360
catctgccgg gatgcgtctt caatgtcatc gaagctcgca aaaagcaagg tctgccagtg 420
tcaaccatct tcaaggaatg cggttccaat gattgtcttc cacatttgca acattgctgg 480
gctcttctct ccttactcga ctctgctggc tcaaaatcga ctantcttgt attggttgga 540
caatctcgtt tg 552

<210> 712
<211> 1035
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (53),(67)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 712
gtgggcgact gcgttggaat tgttacggaa gtactccata caggtacagc agnttccggt 60
ctgtcgntgc acgccggaca ggtcctggac gtctttctcg tcctttatgt cccttactgt 120
gggggtttcc tcacccagta cttgtccacc atcgggctgg ctatttactt tagtgctggg 180
atcacattca tttacagagg agcgttcgtt tcatccttca tcatcctagc attggtctat 240
tttcggcgat ataaacacgg aggattctca gttacgaact tcacctcacc tgtcgatact 300
gtattgaatt catatttgga tttgggagac cgcaactacc tgattgttta tttctgtcct 360
gttacgaagc ataccatatc tttattcagc agatcgcaca tcatggctga taaacccgcc 420
atccttcaac ctcgtccgcg gcgagtgttc gaccttacgc ctgcttcgaa cgaatcgtcc 480
gaatctccta ctcccgcgga gcccgccaat tctgatctgc tcaatcccaa ggaggccgct 540
tcgagcagcg taagccgcac tgcttctatc atgaatctga catcgtctac cctttatggc 600
atttattctc cgaccgcatt cgaaggcgag ggacaaacac ctatctcgga gagtccacca 660
atcattaaac cgtctcctga cacgccggtt cgccagtcac ttcagagaac tcggtcgcgc 720
ctcagtcatg ggctattccg tggagttatt ctgcctcagg tgttccgaag cgtgcttctc 780
tttggtttcg gagtggccta tggggttatc acagttcatt tacatgagaa tcactggatt 840
acgccggtga aattggagaa tattcgctac tacgactctt ggcaatacct gggtttgtgg 900
ggtctggctg gagtggctct gggacatgtt cttccctggc tggattcttt tgctggagag 960
tggaatacgg atcgttccca gaccgtcaaa gggcaggaga acaatcgtct ccgcgagtct 1020
tcaccacggg gctgg 1035

<210> 713
<211> 186
<212> DNA
<213> A.fumigatus

<400> 713
atacatttgc cagtacaagt gagcgatttg tattctcagt ggggtatctc tactttacta 60
aacaatcgca ggggctggta taagactgga aacaattggt gggtgaaggg gagcgacaaa 120

cccagggact gcggtatgta tatctccccg aaaggatctg tggttgcgac attgacaatg 180
caatag 186

<210> 714
<211> 216
<212> DNA
<213> A.fumigatus

<400> 714
ggaaaaaaag ggggtggggt taattttggg caagaagtaa aattttcttg gggaacggga 60
agggaaaagt ttggaaaaaa ttacccccac ctaaaacgcc caatagttaa ccccctttt 120
ggttacccat attttatcaa tatcaagcaa tccccggggt ttttggcatt cctcccggcc 180
gagtcgactc gtaaatccga ggttcgtcga agatga 216

<210> 715
<211> 228
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (134)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 715
tgcccactgt cccgccacaa tgcttatccg aatgcaggac tagtcctcct ttcgctgcct 60
agagtgaccc cccgtcagct gatatgcttg ccaatacatg gggggcctgt cccaacattc 120
gggatatcat atcnctggat ggagcccccg gcccccgaaa ttttacctca gaatattctc 180
cagcaggcga ccccttttgg atacctccgt aattttatgt acatgtaa 228

<210> 716
<211> 390
<212> DNA
<213> A.fumigatus

<400> 716
tcacccaatt cttttcaagg aacggaacgt tcaattccca tactccccca attaacggac 60
ccggaagcca ccagtccaac tgacaaacgc ctgatggaaa caacagacgc cttcccctcc 120
tccgccgcct tcgacgtgat caactccgcc ctccagtccg acgaagccga gcgcaaagac 180
gccatcaaga acgccaaggc catcgtcgcg ttcaacctca agaacgcctc cggccaggag 240
gagagctggt acctcgatct caaggacaag ggcgtcgtcg gcaagggtgc tgcccccgcc 300
ggtggaaagg ctgatggttc gtttatatcc ctcactttcg aaaatcagtg gagtgggttg 360
gactggtttc aggctgacca tgtgacttga 390

<210> 717
<211> 318
<212> DNA
<213> A.fumigatus

<400> 717
agactgtgtg ctttgatcaa cgcactggag ttcaaaccga agcatttact ggcagttgac 60
tctgtcccgt ccagactcga acttgccagg tcgctcggtg ccgagccttg gaacttcaaa 120
acagacggag aaggattgcg caaacgcgtc gaagagttga ccaatgggcg aggagcggat 180
gctgtcattg aggtggttgg gcttagccca gcgctgagga ctggatttga tctgctgcgg 240
ccatggggca ttctcagcag tgtgggtgtt cacaacgggg aggtgagtct tcatcagccg 300
tcaggaatcc aagcatga 318

<210> 718
<211> 255
<212> DNA
<213> A.fumigatus

<400> 718
cggctgatga agactcacct ccccgttgtg aacacccaca ctgctgagaa tgccccatgg 60
ccgcagcaga tcaaatccag tcctcagcgc tgggctaagc ccaaccacct caatgacagc 120
atccgctcct cgcccattgg tcaactcttc gacgcgtttg cgcaatcctt ctccgtctgt 180
tttgaagttc caaggctcgg caccgagcga cctggcaagt tcgagtctgg acgggacaga 240
gtcaactgcc agtaa 255

<210> 719
<211> 342
<212> DNA
<213> A.fumigatus

<400> 719
gagagaatag tacgttaccc ttgcagtcag gagtctggac ctctaagact gaacacaaag 60
gctctaggcg cccttgcgcc ccatttccct gagccggact ggtcggctgt gctgcgggct 120
gctggcctgg cctgggagcc ttcctccctt ctgcctcccc aacccaagcc cttccccttcc 180
cttcagtctc tcatttttct tcccttgtat tattgttttc atcctcccat accaaccccct 240
ctgtcattct tcctccttct caccccatca cgttctctct ctaacgtctt caccacgggg 300
ctggaaggat cagcggtggc tcattgcccg acagcggtcc at 342

<210> 720
<211> 192
<212> DNA
<213> A.fumigatus

<400> 720
cgatttgctt cgcgtcgttc agttgtgcga tcggagagcg taagaaacat tattcgggaa 60
cgacgaatgc tcgaacattt aaaccatccc tgtctttgca acttgagata cagtttccaa 120
gacattgagt acatgtgcgt tctgcagcag gtttcctgga tggccatgag attggttgct 180
aatatctcgt ga 192

<210> 721
<211> 258
<212> DNA
<213> A.fumigatus

<400> 721
agttatattg tggttgattt gatgaacggc ggtgatttgc gattccatat ctcaagaaag 60
tgctttacgg aagaggcagt acgattttgg atggcagaac tcggttgtgc tttgagatac 120
atccactcac aaggaatcat acatcgagat gtgaagccgg acaatgtgct gctagattcg 180
gaagggcatg tgcatttggc ggatttcgta tgtggcgccc tctttgagca gtgcgacccc 240
attcatttta tccgctga 258

<210> 722
<211> 225
<212> DNA
<213> A.fumigatus

<400> 722
cttttcttcc tattgcagaa tgtggcatcc gattttcgac cgggcaagcc cctcacaagc 60

aagtcaggaa ccttggctta tctggctccg gaggtgtacg aaggcggagg ttattactgt 120
gaagtggatt ggtggtctct tggtgttaca ttttacgaat gcatttacaa caaggtatgg 180
acttgcttag gccgcaattc cggtttctcg cactactcta actag 225

<210> 723
<211> 303
<212> DNA
<213> A.fumigatus

<400> 723
cgacctttg aaggtcgaag ccaggacgtc cttagcgaga acatcaaaaa ggctcaaccg 60
aaatactacg tcaccaaccc tgctgtttca gttccgtgcc tgcgggcaat ggctgcgctg 120
ttggaaaagg accgaagcaa acgaataggg gccactggat ttgacacttt cacttcgcat 180
atgttcttcg cagaaatcga ctttgttgct ctggaacgca aggaagttcc gcctgttttc 240
cgaccttcta gcgataagac caactttgac gccacgtatg atttggaaga gcttctcctc 300
taa 303

<210> 724
<211> 459
<212> DNA
<213> A.fumigatus

<400> 724
ccttcttcct ggacattgct gcctccgatg gccattcaat cgatgcggct gacgacgggg 60
ccactgtcac ggccgctctg caggaatggg gctacctggc gacagaaatc gaggacttgg 120
aggccgaaag cgaagaggcg gtccagattt tcatggatca acttaatagc aacgatccgg 180
cccggcagat tgccgctggc gagaatatcg ccctgctgta cgagaagagc tacacaccgc 240
aagaggacga cgacgacgaa gacgaggaag tcgaatccga cgaggaggag tttatggggg 300
ccagggaccg ggacgggcca aaactcgtca aacgctacaa tgcgtaccac aacacccatg 360
agttggaaca gcaactccaa tccttggcca ccgtgcacaa aaagcacatc agcaagcgag 420
acaagaagaa cctgcacagc aatttcgcct ccatcttga 459

<210> 725
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (56)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 725
gcattgaccg ttggtggaag tggtatccga ctgactctct cccacgagtt ctccanggga 60
gattcgccgt accctacttt gagggcaacc gcccctcccg gaacatctgc ccgtgaatgt 120
tccggccccg ccttccgaac ctacagccgc agaatatcaa cagggccccc cataatcccc 180
gaagggctgt ttcctaatca gccccacaag aacgaatttc tttga 225

<210> 726
<211> 822
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (762)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 726
aatgtaaaac cgctgctgac ccgcacgatc cgcgactcga cttctcctgt gatcaaagct 60
gccgcaatcc attgcctggg ggtatgtacc agctttggtg gtgctggcga agacagcatt 120
gtcgatcaga tgaccttctt cctggacatt gctgcctccg atggccattc aatcgatgcg 180
gctgacgacg gggccactgt cacggccgct ctgcaggaat ggggctacct ggcgacagaa 240
atcgaggact tggaggccga aagcgaagag gcggtccaga ttttcatgga tcaacttaat 300
agcaacgatc cggcccggca gattgccgct ggcgagaata tcgccctgct gtacgagaag 360
agctacacac cgcaagagga cgacgacgac gaagacgagg aagtcgaatc cgacgaggag 420
gagtttatgg gggccaggga ccgggacggg ccaaaactcg tcaaacgcta caatgcgtac 480
cacaacaccc atgagttgga acagcaactc caatccttgg ccaccgtgca caaaaagcac 540
atcagcaagc gagacaagaa gaacctgcac agcaatttcg cctccatctt gacgactgtg 600
gagaatcccc gacgcggccc catgtacaac aaggcgatcg atcaagattc gaatcggcag 660
tacgggagca aagtccgcgt gaagatcgga agagaagggg tcatgagcat tgaccgttgg 720
tggaagtggt atccgactga ctctctccca cgagttctcc angggagatt cgccgtaccc 780
tactttgagg gcaaccgccc ctcccggaac atctgcccgt ga 822

<210> 727
<211> 645
<212> DNA
<213> A.fumigatus

<400> 727
ttcctaacca tacgcggatc cttcggcccc cttggtgaag acagatctca ccgtggcatg 60
acttctgccg cttaccagaa gaaattcgac gaatatctca gccagggata ccgtgtcgtc 120
caggtcaatg gctacacggt cggcgacaaa gtgtactatg ctgcgatttg ggacaagtcc 180
ccctcggccg gctgggtcac ccgtcatgga atgacggtcg agtcgatgca gaaatacttc 240
gacgagtacc tgaaacaggg ctacaagctc actcatatca gtggctacga gctcaggggc 300
gaggagcgct ttgctgccat ctgggagaag cagaacgata aggtcgcctg gctctcctat 360
gcgaacatga cctctgccga ataccagtcg cgctttgaca aatatgtcaa ggatggatat 420
cgcctgatcg atgtcgatgg atatcaggta aacgaccatg tttactatgc ggccatctgg 480
gacaagttgg cttctggtgc ctgggttgcc agacatggat tggattcacc aagcttccag 540
gcggcatttg acaaatataa ggaggagggt tatgttcttc gcgctttcag tgggtacaac 600
tctggaaagg aggatcgcta tgctggtctt tggataaagc catag 645

<210> 728
<211> 375
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (34)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 728
catccaagat ggataactgt gtctccacag ttgnagatcg tcattatcct atactgctcg 60
caccaccatc actgtcatca catcatcaca gcgtatttta actacagcat tgttaccttc 120
cattgctttg ttattcgata tattgtccat gctctgctgg agctatcatc tcttcctctc 180
agtttggaca tgaccgacat gagcaagaac ctggactcca tcccatatga tgtgttctac 240
cagatcgctt ccgggttgga ttgccatgac tttatccatc tcagtcgagt caatcaggct 300
ctcaacaagt tgatgcgaaa tgagtccatt gcaagaaaga caatcgaggt gtgtattttc 360
ctcacgagtg cataa 375

<210> 729

<211> 537
<212> DNA
<213> A.fumigatus

<400> 729
cctggaaccc ctccacgacc ccgctgctgc atcgaacagt taactttccc tgaccaagct 60
ctacttcaat taacttgtgg gaagtctctg ttccatatat gcatgtatga gatggatgct 120
ctggtaacgt tcggcgctgt cttcaccagt acaggcagct tcagtctgtc cagtctactc 180
acgatcatct acagcctgtt cttgaagcct tatttggcgc cgctgacagt gaacatcacc 240
ctcatcagtc aatccactga tttcgccccg actgctgcag aaattgatgc ttttctaaga 300
gaacagttcg gagaggaatc taacaagtgg aggtgtactc ttacggtgaa gcttaaccgc 360
tataacggcc ccgccaggaa tgctttccac gttagtcaag ttcaatatac gattgattgt 420
actcgggtgg aagttgacgc ttacggacga gtctctaggc aaccctccag cacactagta 480
ctccccatga gagcccacta cgggagcttg ctgtccgatc actttgcggg aaactag 537

<210> 730
<211> 252
<212> DNA
<213> A.fumigatus

<400> 730
aaaccctcta tatttaagtg ctctattctt acagttaggc tctacaatac tcaattcgcc 60
cacctcttct tcgtgagcac cgaatcagat ccttcgtctg gctgtcacaa gagctataga 120
attgaaactg gtagctgtat ttatagctac agatttgatg acacagagtt tatgcatccc 180
aaattagcct cccctggtca tcttaaccgg atagggatct taatacctca tgtagtacac 240
tcacacaggt aa 252

<210> 731
<211> 258
<212> DNA
<213> A.fumigatus

<400> 731
tccggccgca cactcacaga catccatgac accacttcct tcgaatacac gaacaacatt 60
cacttccgta agtcaatcgg cacattggca gagtgccatt ctaacataat actccagaga 120
gcatcctcat tcctcagcga tggcatcttc tccgttagcg caaactccaa taaaatttct 180
acctcgaggt tgtggtggtt ctggatggca ctcacctttc cgctaacagt gattgcgatg 240
gctgcttggt gggcatag 258

<210> 732
<211> 285
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (157),(206)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 732
acctttttag cccgcaacta cggtggagac attcccatgt ccgcagtcga gaagttcccc 60
atactcttta gcgaagccga agaagaaaga tcccccgtcc ttccatgttt ctcccatgaa 120
ggaatcaatg tatgtgagac ccatgcgaaa cctgcantgc atggccttcg gagctttcgc 180
cgctccccgc aacgcacctc ctcccntatt cgaaccagct actttggctc gagggcacac 240
agggagtgtc ggatatggct gtgttacttt tctgtgattg tctag 285

<210> 733
<211> 477
<212> DNA
<213> A.fumigatus

<400> 733
ttatgtgctg ttcctcaccc cagatatata acacaagagt cacacaagct tgagattcaa 60
gcccgaccgc ctattgccgt cacaaatgcc gtctcctggc gaagcgaggg cattcgctat 120
cgcaagaacg aagttttcct tgatgttgtt gaatctctca atctcctggt atcggcgtcc 180
ggaaacgtat tgcgctcgga gatcctgggt gctatcaaaa tgaagtgtta cctgagcggt 240
atgccagagc tgcggttagg tctcaacgac aaggttatgt tcgaaacgac tggccgcgct 300
acacgaggaa aggcggtcga aatggaggat gtcaaattcc atcagtgtgt ccgactttcc 360
agatttgaga acgaccggac tattaacttt attccgccgg atggggagtt cgagcttatg 420
agctaccgtc tcaacacgca tgtcaagcct ctaatctggg taaagtgcct ggtttga 477

<210> 734
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (27)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 734
tatctctaca tccgtcacag caatctntac atcctcgccc taaccaagag aaataccaat 60
gccaccgaga tcctcctctt tctccacaag attgtggaag tctttacaga atattttaag 120
gtcctggagg aagagagtat tcgcgacaac ttcgtcatca tttacgagct gctggacgag 180
atgatggact ttggctaccc gcagacaaca gagagcaaga tcctgcaaga gtga 234

<210> 735
<211> 183
<212> DNA
<213> A.fumigatus

<400> 735
ttgcgggcta aaaaggtcta ctccagcttg gttattttgc gtgtcctaga cctgtggaaa 60
aataacgata ctaaggcgca ttggtcacct tggcccttta aggtcaagaa aaataccggg 120
gacgcccttg ttgaaggcaa agagaatggt gggaataggc gaaaatgttc cgggaatcca 180
ttg 183

<210> 736
<211> 729
<212> DNA
<213> A.fumigatus

<400> 736
catgctcacc ccccagaccg gttgaaattg atcgtccagc agactggggc aaaatttgtc 60
atcagtgagc ctgttgtcat ggattccttg atccttgatg gaactgcgaa catattgtcg 120
ttgaccgact gtggcgggag catcaatgag cccggcctaa ctccttgtca actgccatca 180
gtgaaaccca ccgacatagc ttttatcatg tttacctcag gaagtaccgg gacgccgaag 240
ggagttttga ttcaacacga gtcaatatgt acgagcattc agtacaatgg cgaagccgaa 300
atggtaacgt caagcactcg cggcttgcaa ttttcatctt atgcgtttga cacgtctgtt 360
gatgaaatat tcactgttct ctcaaggggc ggttgtgtct gcgttccaac agaggccgag 420
agaatgaatc atctagctgc atttatcagc cgttttgacg tgaattggct tagtatcacg 480

cccacggttg cgcggctgat cgccccgggc gaggtgccgt ccgtgcggac catcgtcctt 540
ggggggggaag aaatagaccc aggggtcgta aatcattgga aaggatcatg cagaattggt 600
tgcatcctac ggcccggcgg aggcatccat tgcctgcgct gcgtcgcccg tgacgagtgt 660
cgttggcgat gccctgcttg gccgacctgt ggcctcgtct ttgtgggtag tcgatccctc 720
cgaccatga 729

<210> 737
<211> 765
<212> DNA
<213> A.fumigatus

<400> 737
atcattggaa aggatcatgc agaattggtt gcatcctacg gcccggcgga ggcatccatt 60
gcctgcgctg cgtcgcccgt gacgagtgtc gttggcgatg ccctgcttgg ccgacctgtg 120
gcctcgtctt tgtgggtagt cgatccctcc gaccatgatg ccctcatgcc aatcggcacg 180
gcaggagaac tggttatcgg tggccctctt gtagccaggg gttacttgaa tgacccagat 240
cgcacctccc ttgccttcgt ctgtcccaag tggtcaacgg aactcaatct gccgttcaac 300
aggttctacc gaacaggcga catggcgcgc tggaatgtgg acggcactct atcttatgta 360
ggacgcctcg acactcaggt caaactaaat ggtcagcgcg tcgagttagg agaggtggaa 420
cggcacttac tggcccaacc ctgccttcaa tgctccacgt gcgctgtgcc tcagtccggt 480
ctcctcgcca atagactggt tggtgtgatt gggctacaaa ctccgcagat atctgctgcg 540
gatgaattcc attgcctcga gatatcccag gctaggacct tggttcccta tgcttctgat 600
gcagaggaat ctcttagggc caaattgcca ccttacatgg tgcctaccgt ctggataggc 660
gtccaatcgc ttcccttgaa cgcatccgga aagctggaca gacgcaaggt gaataaatgg 720
ctggaggtct tcaccacggg gctggaaggg tcgacggatg ctcta 765

<210> 738
<211> 342
<212> DNA
<213> A.fumigatus

<400> 738
ccatctgtac aggttgacaa tttcggcttc ggggccgaaa aacgccggat gcttgagctc 60
aaagtcctaa atggaacttt ggcattcagg tacgtgatag ccctgggtag aaattccaag 120
atctacaata atagtgggcc gaagaatgac cccgctaggg atgcttttca ggctatgctt 180
gacagcgtgc gactaccctt caatgagtgc cttcgtatcg ttcaggaaaa tatccagctc 240
gaccccagtt ttgtcaactt ctatctctgg gcaaaagaga aaagtattcc aattgtgatt 300
ctgtcatccg gaatgacgcc tgtgatagag gcattgctgg tt 342

<210> 739
<211> 219
<212> DNA
<213> A.fumigatus

<400> 739
aatatgcctc aaagttcctc acaaatggag ggcaggcacc agtacttgaa tggtaacccg 60
aaagcaatat tcttcactga tttcgacgga actgttactt tgcaggactg taagcaatat 120
atactcgccc ttttcacttc ttcatatttt gcgaagccat tactaagaag tttatcaggc 180
aatgactacc tagtaataac ctcccacact gattgttga 219

<210> 740
<211> 510
<212> DNA
<213> A.fumigatus

<400> 740

ggtcggctgg taaaaaatcg ccgggttcgc cctctactgg atcctccaag tctgcgatca 60
ccaccgccac ttcggcgaca gcgcctacgc ccgctccttc cttccccgca tcgacggcgt 120
cctcgagttc ttccacgccc acatcgactc cctcgggctc gtcagcaacc tcccagacga 180
cgtctggcaa tacgtcgact gggtgaccac ctggggcgcc acagagaccc atcccgacaa 240
aggcgtcccc acatcgggcc gccagtcaaa cagacacacc ttcttcagcc tcctctacgc 300
ctacgtcctc aaccaagccg cgcagctcct ccacgatgtc ggccgacccg gccacgcagc 360
cgagtatacc gcgcgcgcgg aagctgtcct cgcatccgtg cgcacgcact gctacgacgg 420
gcgcttcttc acggattcca cggcggcgat cgccggcgag ggcgcctact cgcagcactg 480
ccaggtattc gctgtgttag ctggtgcggt 510

<210> 741
<211> 495
<212> DNA
<213> A.fumigatus

<400> 741
aaaatcgccg ggttcgccct ctactggatc ctccaagtct gcgatcacca ccgccacttc 60
ggcgacagcg cctacgcccg ctccttcctt ccccgcatcg acggcgtcct cgagttcttc 120
cacgcccaca tcgactccct cgggctcgtc agcaacctcc cagacgacgt ctggcaatac 180
gtcgactggg tgaccacctg gggcgccaca gagacccatc ccgacaaagg cgtccccaca 240
tcgggccgcc agtcaaacag acacaccttc ttcagcctcc tctacgccta cgtcctcaac 300
caagccgcgc agctcctcca cgatgtcggc cgacccggcc acgcagccga gtataccgcg 360
cgcgcggaag ctgtcctcgc atccgtgcgc acgcactgct acgacgggcg cttcttcacg 420
gattccacgg cggcgatcgc cggcgagggc gcctactcgc agcactgcca ggtattcgct 480
gtgttagctg gtgcg 495

<210> 742
<211> 612
<212> DNA
<213> A.fumigatus

<400> 742
gttcttgata acgtgcggcg aatgaaacag gttgagtttg agatggattc tcagagcgtg 60
atgcgccact gctgcaagct tctcacgctt gattcggttc aagaagggcc agaagggcga 120
aatttctaca ttcttcccaa attactcaaa atgggtgttc ggccagatcg ggatatgatg 180
aacgtcgttt tgtccaacgc cttcaaaaca ggtgacgagc agttggggct cgatatgctg 240
gagtatatga aaaataatgg ccttgaacca gactcttaca cccatttaat cctcctcaat 300
gatgctgttg cgcgagggaa tcgagaccgc gttagttcat tgattcggga gatcgaatct 360
aacgaggagc tactgaagaa tccttggatc tcgagtaaga tctttcatgc tcatttcgtt 420
ttcactgcga agcatataaa tccagatgac gacccggatg ccgtgttcta ctccatgctg 480
gagatgtata acaagttaca tgatattact cctttgaagg agctttctat cttaccacct 540
gaatatacgc ccccaccagg aggtgacaat acgccaccga ccacgatcgc tttatttttc 600
ttcacctcgt ga 612

<210> 743
<211> 195
<212> DNA
<213> A.fumigatus

<400> 743
gctgcagcaa tgatcaatta caactgggcg caaaatccgg cgctgctggc ggagccgatc 60
aacaagggga ttgcggcgtt gatgacggcg attgtctggg tgagtgctgc gtggtatctg 120
aagaagggag tcaagaccaa tggagtggct gttgcggcta tgggggcgtt gcacgcttgg 180
gctgcttttc ggtag 195

<210> 744

<211> 477
<212> DNA
<213> A.fumigatus

<400> 744
tttctaggtg atggtgtaac ggatgatact gctgcgatca acgcagctat gagcgatggt 60
ggtcgtttct ccccagcaag tcgcgactct tcgacgacca ccccagcgat tgtctacttc 120
ccagccggga catatataat ttcttcgtcg atcattgatt actattttac ccagataatt 180
ggcaatccaa actcgcttcc tgtcatcaag gcgacgccag gattcacagg ccttggtctg 240
atagatggcg atcagtatca gggcgacggt aaccagggtt ggatatcaac gaatgtcttc 300
ttcaggcaaa tccgcaactt gatcctcgac ctgactgcta tacctccggg cactgctgcc 360
accggtattc attggcctac cgggcaagcc acaagcattc aaaatgtgca gatcaagatg 420
agttctggcg ccgggacgca gcatcagggt cttttcattg agaacggtaa gccataa 477

<210> 745
<211> 492
<212> DNA
<213> A.fumigatus

<400> 745
cggttttccg gctcttatcg ggtggtggaa gatacggtca aggagacgca gctcatgttg 60
tcctattcgc cgcctgttgc gccggctttg agatccctaa gcatcatttt tccgcgtggg 120
tccttcacgg actttgtgcg cggaagcaac ccaaacagcg agctgactca ccagaagcat 180
tctgtcttat caggcctatc cacgtaccta gagaagcact tggcgatgaa gctgaatctg 240
ggagatctgg acagcggtca ccatcctgtc aaccaacccg tgcgtctgac taaaatcgca 300
tgtggcagct tcgtcctcgc cggcgacggt aaaatgaagc tggtcgctcc gtcgggacaa 360
gctggttcca gctctgagga tggtgctact gcagctcgtg agagcagaga ccgtctgcta 420
tctcgggcga acgaggcttt gcttcaagct gttatacgtc gagctgctat gaccggcgac 480
gagcagacat aa 492

<210> 746
<211> 549
<212> DNA
<213> A.fumigatus

<400> 746
acaatgagtc aaatgagatc atctccatac agcacacatg cgaacaaaga aaaacagaag 60
gctcctctgc ggaaaaaggc atgtcagaat tgcaccaaat ccaaagtacg atgtggacta 120
gaaaagccta tctgttcgcg atgcaggtcg aaaggccaca gctgccaata tcccccgggg 180
cgcgtcgctg cacctcagat tggggtcact ggtaccgcta acgacatcgg agaagactat 240
acagcgcttc ttggcataca aggatatgta gactccgcca tagttccggc accagcgtct 300
ttgataccgg aatccggccg agctgcggct tccaggtctc ctcgtcctcg tgctgtaacc 360
agcggacaga ccagacgcct cgatctcgat tttacggata tcgacttgac acccagtcta 420
aacgcagtag atattcgaga ccgatggctg agaccgtatc tcctcccacc tctaggacga 480
gacgagattc tcaaggccta ccatctattt acgctgcagg tcctcactac ggagtgccga 540
tcgccctag 549

<210> 747
<211> 495
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (468)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 747
ctgatgcaat ctctaaaggc caccaccgtg caaggtatcg agcgattgat caaaaccgcg 60
attgtcgaca agaccccttc tgtctcctcc gccgctctgg tttcttcata ccacctcctt 120
ccaattgcgc gcgatgtcgt tcgtagatgg cagagtgaga cgcaggaagc tgcatccgca 180
tcgaagtcgt cgaccggttt ccttggcttc ggcggcagct cctcgagtca cgctatctca 240
caatcaaact tcatgactca atatcatgcc attggtcttc tgttccagat gcgctcgcac 300
gataagatgg cgttggtgaa gatggttctg cagtatggag cagctggcgt tgtgatgagc 360
cccgccgcgc tggtattgtt ggtgcgatta acaaccaact tggcggagga ggatccgggc 420
ctgacgaaac cgatgatgca aatgcttgat ggctggctcc ggcataanca tgaaatggtc 480
aacttcgatg cggcg 495

<210> 748
<211> 306
<212> DNA
<213> A.fumigatus

<400> 748
tatgtgcgga tctggctgtc cgtggtgaag acgagcaatg tccctacgaa tgaggcgacc 60
actctgttct tcggcatttc gaagctgttt cagaataagg atccttccct gcggcaaatg 120
gtctatctga ttctgaagga actcgcgaac acggccgagg atgttatcat gtcaacaagc 180
attatcatga aggataccgc tgtcggtagc gacatcctct acagagcaaa cgccattcgg 240
gctctgtgcc gcatcattga tgtgagcatc cttcgttata ctacattcct taagcttagt 300
agctga 306

<210> 749
<211> 339
<212> DNA
<213> A.fumigatus

<400> 749
caggccaatt tctccccagc caagattggc atcacagagt acgccgccaa gtcccttggt 60
gatgtcgtgt ttgtagagct tcccgacgcc gaccttgagg ttagcgctgg tgaggccgtg 120
ggtgccgttg agtcagtcaa gtcggcttca gacgtcctgt cgcccgtctc tggaaaggtt 180
gtgcagggga acagcgttct cgaggacaat gccaagttca tcaaccagag cccggagggt 240
gacgcctgga tcgccaagat cgaggtcagt gacgttgcgg agttggatgg tctactcgat 300
gaggccgcct acaaggcgag cattgacgcg gaccactaa 339

<210> 750
<211> 225
<212> DNA
<213> A.fumigatus

<400> 750
ttctttagga aatttatcct ccgtaccttt gatcaatcaa tccactactg gcaatcagat 60
gttgaacact tcaactctat atcagatagt catatttcgt tcggtctaga catttcttct 120
agggaccaga ctatttttat gagtgatgct gttctcttct attccagaaa cgagattgaa 180
tacctccggc ttatccccga gtacctgaca gccaaggcca tttag 225

<210> 751
<211> 285
<212> DNA
<213> A.fumigatus

<400> 751
ttgtacacca ttcccatcat ggtgtacaat taccccggtg tggcggcggg gctggacgtc 60

gactctgata tgctggtgaa gctaagcgcg catccgaata tctcgggcgc caagttgaca 120
tgtggaggta ttgggaaggt tccccgtgtg acggccagtg cggtgagacc attcagcgtg 180
cttggtgggc agattgactg gatgggccct gcgatggccg ttggtgctgt tggggcaatt 240
acggggatgg cgaatctgta cccgagggtg agtatctttt tttga 285

<210> 752
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (38),(40),(49)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 752
tcattgaacc gaaaggggaa gcttgaagac atcgtgtntn gagtatccnc accagacact 60
tcccccgggt tagacggatg tacgagtaca tacggaatac tcagcctaag catctccttc 120
ctgcaacaac tgaaccagct taatggtggc ttagtatatt caggagtgca aaactgcaag 180
acttcgccat ctcaaggttt caaggtacga aacaccttgg cggagaatac ttccgaaggc 240
agtctatag 249

<210> 753
<211> 408
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (18),(56),(143),(337)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 753
tccgtggcgg ttcagtcnct gcctcgacgc ctgacttgtc ggcggagaat accganactc 60
aggacagctg tgaatacgcc caatttatcg aggagcgctt tcggccggaa cttgagcgtt 120
ttactggctg atcaagcgaa acnagctgtg cgcagacgaa tcgcgggagt tctcactgct 180
aatgttgatt taagtgaggc cctcaatgaa gcatcaggaa agggtaaaat tacagggttg 240
accaattccg atgtttttct cttccccagt tggtatgaag ttcaatcttc aaatacgcca 300
ccagaattct tctgggcact aaaagttccc ctgaaanaac atatgccttt ggaatccccc 360
cacatagaaa tccctccaga agccttgaaa aaatggggtc ctgggttg 408

<210> 754
<211> 633
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (520),(558)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 754
tacgaagaaa gagaaccgtg gattgtgaga aagatgaaat gtggctaccc tcgcttcttc 60
attcatcccg tcattcaaga tcttgcgacg gaagttgtaa aacttcatgg aaatcccaaa 120
acagaaacgg cctcgttgtt cccgtcactc aagactgcaa gcgtatgccg gtcattcatt 180
ctttcgagga tttcctccca agaatcgccc agaatccgta ttgtcaactt cgttcctgcc 240

cctcacacag agtcccggcc acagacaata aggtcgcccc tgtcgtgtgt gatttatcca 300
acagaatatg cttctatcgc caagcaagta tggcaacaca gtggaaatgg aatatcaagt 360
cgccggggcg aattttgtct aagcgcgcta cgagatggat tccttgtgga ggataaggaa 420
cctgcacagg ttgaccaatc atctcagaaa ttttctaagg gtccacggcg atatcaggga 480
agaggatctg cgaatgaaat agtccgtggc ggttcagtcn ctgcctcgac gcctgacttg 540
tcggcggaga ataccganac tcaggacagc tgtgaatacg cccaatttat cgaggagcgc 600
tttcggccgg aacttgagcg ttttactggc tga 633

<210> 755
<211> 342
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (96)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 755
gtcatgtttg gagcgctgaa cagatttatc gggcgactgg acgcggagcc cgtccagcac 60
ccgcggactc ccagcggaga caacgcattt ggcttncagg tcctccgtaa caaagacccc 120
gagctacctc tagaaccctg gtttgatttt attgttggaa tcaacgggca ttctatcgta 180
cgtgcattga catttgccat tgtaaccgaa ctaaccggac ggctgcagga ggaccccgac 240
ccaaacctct tcgcaaccga agtgcgcaac tgcgcaggga caagcgtcac attcgagatt 300
tggagtgcaa aggttcgcat ggattggact tgtcaccaat ag 342

<210> 756
<211> 786
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (579),(601),(742),(751)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 756
cggacacagg gccaaaaaac acacagcgtc tctataccag tacccgcctc gaatcccaca 60
ctcggtctcg ccttacaact agccccctt tcctcgacac aacatatctg gcatgtgctg 120
tccattccat ccccgctgag cccggcctat cgcgccgggc tcctcccgca ctcagactac 180
attatcggga cgcctagcgg gacgttacga ggcgatgcgg cgctaggaga gttggtggaa 240
gaccatctga accggacctt ggtactctgg gtatacaaca gcgaattcga cgtggtaagg 300
gaggtggagc tggtcccgac ccggggctgg ggcggtgaag gcgcactcgg cgcagaacta 360
ggttatgggg cgctgcaccg cttacctgtc gggctaggcg aggaggtcga gggtcccggc 420
gaggtcgttt tcgagacgag agaggacggc acctctgcgc cgatggcaca tgcgacggat 480
gctggccaga cagcggacac cggtgcggga agcttcttag ttccagcaaa catggtctcg 540
cctccgccat tatctgctcc gaacagggcc ttgtcgtcng cgtcgccgtc gaataaccgg 600
ntccctgcaa cgccgcgagg tggccgaacc cgtcatatgg gcgtctcgcc caaccttgcg 660
ttcgaagagt actttggccc aggggagcag aagagcaagg gagcaggatt atatcccgtt 720
cccggaaagg ggactccctt gncttcggcg ncccaagccc cgaatcgcgt tggcttctgt 780
tggtaa 786

<210> 757
<211> 186
<212> DNA
<213> A.fumigatus

<400> 757
cctagttctg cgccgagtgc gccttcaccg ccccagcccc gggtcgggac cagctccacc 60
tcccttacca cgtcgaattc gctgttgtat acccagagta ccaaggtccg gttcagatgg 120
tcttccacca actctcctag cgccgcatcg cctcgtaacg tcccgctagg cgtcccgata 180
atgtag 186

<210> 758
<211> 183
<212> DNA
<213> A.fumigatus

<400> 758
cgtgcggtgg gtattaatta catcactttc tcttgtttca ccattcgaac caaacactat 60
cccacctctg aagaattcag gttcccatcc tcgaatggac atcatcaata catcatgagc 120
agtattatcc aaacagcagt tacactgaaa tctcattctg ctgaggctca attcgagtgc 180
tga 183

<210> 759
<211> 294
<212> DNA
<213> A.fumigatus

<400> 759
ctgaccctat cagcgatgtc tcaaattgag ctgttcggtg acaatgagca tttcacaacg 60
ttactagcgg acggagtctg catagcgacg cctaccggct cgacagcata caatctcgca 120
gcgggaggtt cactgtgtca tccagagaac cccgtcattc ttgtcaccgc aatctgcgcc 180
cacactctgt ctttccgacc gattatattg ccagacacca ttgttctacg tatgggagta 240
ccttacgatg ctcggacaag ctcatgggca agctttgatg ggcgagagag gtga 294

<210> 760
<211> 423
<212> DNA
<213> A.fumigatus

<400> 760
gcgggttata ggttgtgctc agcgcctgtg aagattctct acacaagttg gctgtttcag 60
catgtcgtac cacccgtact ctcgttttca ctggggtctc tgggattcct gactagattc 120
gatttcaacc agtaccagag cacactagag actgcgttca aggacggtgt cgtggtaagc 180
ctcagactga ggttcgagtg cacaatcatg aggagcaatc ggcggtcgga ggacgacgca 240
acaaacataa cgaagcgaga tctcgtcgaa gagctgatag gagaggagat ggaaggaaca 300
ttgacccatc gaccggacaa ggttttccag atcctcaacg atgttgtgct tgacagagga 360
ccgaacccca gtaagagcat ccctgaagca ctcggccttg cctggaaatg ggctcctgac 420
tga 423

<210> 761
<211> 570
<212> DNA
<213> A.fumigatus

<400> 761
ttccgaatta cctgccagcg ggtagaccaa ctcatggtca acccaggcga cggctcagct 60
gagaatgcca ccgaagtctg tttcgctttt gtggagtggg tcaatcgact cgagcaatgg 120
gagcaaatgg tggagcgcga agaaggggge acatacgaga aatcgtccga aggagaacaa 180
gcagcacagc tgattgatcc gggcatcaca ggccacactc tctggtttcc aagcgttacc 240
atagcgaatg tgttgaccca cctctgggct attcatatcg tttgtctcaa ggagattgac 300

aagctcaggg cgactttcag cagtaatgtg gagccttgta tacccgcaaa gttctgcagt 360
gtggaatacc agcaaaccca agttctcact ctctcgaagc ggatctgcca cagtatggag 420
tacctgctgc aggatgaact gaaacttttc ggaccggctt ccactgcttt ccctctcaag 480
gtggctcatg actcattcag agagtgtggg acgactcagg agggctatat caagttcgtt 540
aactccagac tccgtccact tgactcgtaa 570

<210> 762
<211> 564
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (13)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 762
aaaaccgcct gtntacagcc gccattttcg ccgaccgaag ccccgaaggc cattgaaccc 60
cgcaaaggcg aattctccga aaagaacaac cgcatctcca tccagtccgt ctccgcgtca 120
agctcaagtg gacaagatcc cgcgagctca agcggctgcc ttgccggcgg aggctgctgc 180
tgcacagctg cggtagaaga cgaggatgaa atcaccgaac acaaatgtac ttgttccgga 240
aacgctccgg catcagaatc ctcaaaacca atcccaacgg ctgcagctga aaccgaggaa 300
acacgccaac tcaaagcatc ggcgcagcca gaacctgcgc aatcccacca cctcaacctc 360
ctatctggcc gaccgcagcc acgcatcatc atccgcaagg tccttgagaa agcagaaggc 420
gaaagcgccg tcgttgtatg cggaccagag ggactctcag acgacgtccg ccgcagcgtg 480
gtgtatctca gcgacgaacg ggcggtccac aaggggaccg gcgcccaggg gatctacctc 540
cacgtcgaag cattcggctg gtag 564

<210> 763
<211> 597
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 763
anaccggacc gtctggagcg ttctgcagcg atcaaatgcc ccaccgttct gaaccagttg 60
gcaggatcta agattataca acaagtactg gcagagactg cagggcccga tcaccttgcg 120
agtttcatgg cagacaccga tccggccact attgctcgct tacgagaaac atttgcgcct 180
caatacgacc tttcttcaag tggacgcggc cgagaattgg ctctgaaccc cgaaacagct 240
gtcaatcacg tcctcaaacc gcagcgggaa ggaggcggca acaacgttta taagtcagcc 300
attccggact ttttacggtc aattccagaa agtgaatgga agcgatggat cctgatggaa 360
ctgatccgtc cacctgctga ggccaagaat gtggctttga ggagtgatgg cgaggttctc 420
agcggcaaag tcattgggga gttaggtatc tatggcacca ttctctggga tcaatccaat 480
ggaaatgtcc tgcagaacga gcaaggcggg tggttgatga ggaccaaggc gaaggatgtt 540
aacgaagggg gggtggccac gggattctcc agtatagata gcattcttct ttactaa 597

<210> 764
<211> 216
<212> DNA
<213> A.fumigatus

<400> 764

tattcatcaa tcaatcaatc aatcatagcc ctggaccccc agacaacgcc ccccattcta 60
gccatcgccg tccgcgaagg cgactccccc ttttcgtcaa acaacaagac cagcatctgc 120
atcataatcg agctcctaag gccctgcacc tccttccgcg acgaagacga ccatgagtct 180
acaccacggg gctggaagga tacgcggggt gtctat 216

<210> 765
<211> 396
<212> DNA
<213> A.fumigatus

<400> 765
caggtggaac ctattcttca gtgttgccga aattggaggg cagtgcatac cgcggcgggt 60
ttggccgagc tcatgaacaa ccagcaggcc cacaagacgg agcagaagca gggtgatatc 120
gaagagggtc tcaagaacga ctcgcacgca aaggagcgcg aaacgcacgg cattgaaacc 180
ccgtccgaca gcagcagtac tgatgacgat aaactgcagc gcgatctgac ggaaagcaag 240
gcgtaccgga accgccgtaa agtggcgctc gtccagggtc tgaaccggcc gttcttccat 300
atcgacctga ccagtgcact gcagagtgca ttggccaact cggcgccgga ccttcatgtc 360
gatcctgctg aggtgaatgc cacgactgat gcttaa 396

<210> 766
<211> 810
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (522),(534),(543),(548),(557)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 766
tacttatctg ttcctcttca ttatctggag cacacaaagc taacaaaaag cagaatgtgg 60
attgaacttg gccaagtctt cgaccgcctc tcgcaggacc cctccgtccg tgccatcgtc 120
ctcagcggcg caggcgagaa agccttcacc gcaggcctag acgtcaccgc cgcatcgcaa 180
ggtctcctgt ccgcagacgg cgaccaggca gtcgatcctg cgcgcaaagc ggcccatctg 240
cgccgtcaca tcgtctcctt ccaggactgc attacggccg tcgagcgctg cgagaagccc 300
gtcatcgtcg cgatgcacgg cttctcgctt ggtctggcgg ttgatctgtc cacggcggcg 360
gatgtgcgcg tctgcacgcg ggacaccaag ttcgccgtca aggaggtgga tatcgggctt 420
gcggcggata ttgggacgtt gagccggttg cctaaggttg tcgggagctt tgggtgggcg 480
aaggaagtgg cactgacggc gaggatattt ggggcgggag angcgctccc cctngggtct 540
gtnactcngg tgtttgncat tttcgccgcc gtctttgtcc gtcgccccgt tctttgcttc 600
ccctggcttg tccccctctc cctttccttc cgccctttt tttcccgttt ctcctccttt 660
cctcctcctc ttcttcctcc tgttctcttc gtccccccc ttcctgttgt ttctcccctt 720
cttccttctt gcttccctct cgtgttctct tcccttcggt ttgtcctccc tccccgtctt 780
ttcccgcttt cctgcccggt ttctttcctg 810

<210> 767
<211> 189
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (75)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 767

gcacttatca acagaacgga gaagcttcaa acatcactag tcgaagcaag gcagaatcat 60
aacaccatgg caganaacaa ctacaattca ttcaagtact tcattatccg gtttccagcc 120
gaacatcaat atgtcgccca cgtggagatc aaccgcccag acaagatgaa tgccttcttc 180
gaggcgtaa 189

<210> 768
<211> 654
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (254),(263),(268),(277),(289)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 768
caggaaagaa accgggcagg aaagcgggaa aagacgggga gggaggacaa accgaaggga 60
agagaacacg agagggaagc aagaaggaag aaggggagaa acaacaggaa gaggggggac 120
gaagagaaca ggaggaagaa gaggaggagg aaaggaggag aaacgggaaa aaaaagggcg 180
gaaggaaagg gagaggggga caagccaggg gaagcaaaga acggggcgac ggacaaagac 240
ggcggcgaaa atgncaaaca ccngagtnac agacccnagg gggagcgcnt ctcccgcccc 300
aaatatcctc gccgtcagtg ccacttcctt cgcccaccca aagctcccga caaccttagg 360
caaccggctc aacgtcccaa tatccgccgc aagcccgata tccacctcct tgacggcgaa 420
cttggtgtcc cgcgtgcaga cgcgcacatc cgccgccgtg gacagatcaa ccgccagacc 480
aagcgagaag ccgtgcatcg cgacgatgac gggcttctcg cagcgctcga cggccgtaat 540
gcagtcctgg aaggagacga tgtgacggcg cagatgggcc gctttgcgcg caggatcgac 600
tgcctggtcg ccgtctgcgg acaggagacc ttgcgatgcg gcggtgacgt ctag 654

<210> 769
<211> 564
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (253),(262),(267),(276),(288)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 769
aggaaagaaa ccgggcagga aagcgggaaa agacggggag ggaggacaaa ccgaagggaa 60
gagaacacga gagggaagca agaaggaaga aggggagaaa caacaggaag agggggggacg 120
aagagaacag gaggaagaag aggaggagga aaggaggaga aacgggaaaa aaaagggcgg 180
aaggaaaggg agagggggac aagccagggg aagcaaagaa cggggcgacg gacaaagacg 240
gcggcgaaaa tgncaaacac cngagtnaca gacccnaggg ggagcgcntc tcccgcccca 300
aatatcctcg ccgtcagtgc cacttccttc gcccacccaa agctcccgac aaccttaggc 360
aaccggctca acgtcccaat atccgccgca agcccgatat ccacctcctt gacggcgaac 420
ttggtgtccc gcgtgcagac gcgcacatcc gccgccgtgg acagatcaac cgccagacca 480
agcgagaagc cgtgcatcgc gacgatgacg ggcttctcgc agcgctcgac ggccgtaatg 540
cagtcctgga aggagacgat gtga 564

<210> 770
<211> 645
<212> DNA
<213> A.fumigatus

<400> 770

ttccccaact ttgctgtttt cttttcttcg ttcgcccact ttggaacaat gcgacctttc 60
cgtcttgttt tgctcgtatg gcccccactg tacatgctcg tcccatatct cgttcttctg 120
ccttcaattc tgcagacagc agcagtttac gtgacgttca tcagcaaaat tacgttgcac 180
gtcattgcct tcccttcaac tgctattctg cttgccaatg ctgctccatc ttccaaggtt 240
ctcggttcga tcaacggtgc tgccgcctcg actgcgagcc ttagccgcgc cttggggcca 300
acaatcacgg gtctgttgca ctccaagggt ctcgaaagcg gctactcgat tatcgcatgg 360
tgggcatgtg gcctcgtttg cgtcaccggt accatccaaa gcttctggat ggaggagagc 420
gagccacgca gagacagcga gaaggctggc aacagtgatt cgactgcagg aatccctatg 480
cggagctcct tccctgcggg caaagagtat gccacgcccg aagaggaacg cagactgctc 540
tcttctacgc ggaccagcgt cgatgatttg gacatttcca atttagattt gacgcaaatc 600
gaaccagcac cccggtcgaa tccacttgca tttgccgagg actga 645

<210> 771
<211> 651
<212> DNA
<213> A.fumigatus

<400> 771
aaaggaaccg ccccaccgtt ggagggattt gcaatttcca ttaacggttg gaaccgttgc 60
aaaatatggg gcccaaagag ccaaagtcta tggccaataa tgtattcaag tgccaccaac 120
ggtagatcgc atgagcttgt ggatcagttc ccaagccctt ggagttatag cgggcaacaa 180
ctctctgtca taggacgcag cagtttagca gcgcttccgc ttgcacctaa gcttcccatt 240
ccgcgatcgg gctcgacccc aaccagccgc caacgcacac cgcgcgcctg tgaactatgt 300
cgtgagcgca aaaccaagtg tgacggcgca aaaccgatct gcaaacagtg tcggctactg 360
aagaccgcct gtacttattc tggttcgaaa cgcgaaagac agcagcttgc gatcgaatgt 420
gcccgagcga aggtcaaggt ttacgaatca gtgctgcgac agatctacga ggaaagccgt 480
gaaaacggtc gcacctccat tgaggagata ttccatgtta gtctctccac ttgcccctat 540
cgcgcgcttt cttattatcc tgtgtctggc cgtgctaaag tcgtgacaga aacactttcg 600
cgcttcacca gaattattct cttcgctcct cggctcgaag tcgctgtttg a 651

<210> 772
<211> 606
<212> DNA
<213> A.fumigatus

<400> 772
gtggtgacga cgtttgaggc aatggcagtg atcttcacag ccattttctt tgatgcggaa 60
ccggtcaaat ctttcgaact acgccacaag gctcgcgaag cagcgaataa actgggtagg 120
ctggtcgagc tcaacgtcaa agctatcaag tcgtctggtc ttattgccac tctgcttggc 180
aatatgcctg ccaacaggaa tgcactcttc gagtatggag tgcacatggt ggagcgtctg 240
ctgcagagtg gcctggatcc tgaacaggtg acatggtctc aagttctgcc gactgccgtc 300
gccatggtgc cgaatcaggc ccaagtcttc actcaaatca tcgattatta cctatctgat 360
aagggccgga agcatctgcc ggacatcaag cgctttgcca aggaagactc tcccgcttcg 420
gacgaagttc tcctccgcta ctgcatggaa gcgatccgcc tgaacggcat ctttggctcg 480
taccggaaat cccagaccaa cctgaccctc gacgacaagc gcggtaaggt tcacatcaag 540
gcaggtgaca atgtattcgt gagctttgta tgtcttctgt gcagaattgc tatcgttcgg 600
tgctga 606

<210> 773
<211> 489
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (277)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 773
aacgttccca ggttctcagc gaccttgaac ggagcggcag tcttgctgcg gatctcgtcg 60
acggtcacgc cctcggcggt ctcggctagg gtcagacctt cggttgggct gacatcaaag 120
accgccaggt cggtgatgat cttccagaca cagcgaggac cggtgagggg gaaggtgcac 180
tcgggcaaga tcttagggtt gcccttctta tcggtgtgtt ccatggtgac aaccaccttg 240
gtcttctcgg gattggcgac gaggtccatg gcgccgncga caccttgac cttaccaggg 300
agcataaagt tcgctagatc accgtatcgg gtaacgtgca gggcaccgag catggtgaga 360
tcgaatcggc cagcgcggat cataccgaaa ctttcgtggg agccgaagac ggaggcgccg 420
gagctcagga tgacggtttc cttgcccgac ttgatcaggt cgggatcctc ctcgccgggc 480
ttgggttag 489

<210> 774
<211> 192
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (33)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 774
acactatcgc ggtcctggcg cctcgggctg ttnacaaggc gctacgtcga caaggttatt 60
cagagcacgg aaaagatcat gatcgaaaag ctcaccttcg ccaaggatcc cagcgagatg 120
ctccaggctg gtatgcaggc ttctatcatt ctgatactat atctccgtgc taactgctcc 180
aggatctggt ga 192

<210> 775
<211> 336
<212> DNA
<213> A.fumigatus

<400> 775
ggctaccgct cgccgcgaac acatcgtcaa gcgcgccgcc aacgaactcc aggactgcat 60
gttcgtcaac ctcggtgtcg gtatcccccc gatcaacccc gcctacctcc ccgaaggcgt 120
caaaattgtc cttcaggccg acaatgggat cctcggtctg ggtccctaac ccaagcccgg 180
cgaggaggat cccgacctga tcaagtcggg caaggaaacc gtcatcctga gctccggcgc 240
ctccgtcttc ggctcccacg aaagtttcgg tatgatccgc gctggccgat tcgatctcac 300
catgctcggt gccctgcacg ttacccgata cggtga 336

<210> 776
<211> 207
<212> DNA
<213> A.fumigatus

<400> 776
tactatatct ccgtgctaac tgctccagga tctggtgagg ctaccgctcg ccgcgaacac 60
atcgtcaagc gcgccgccaa cgaactccag gactgcatgt tcgtcaacct cggtgtcggt 120
atccccctga tcaaccccgc ctacctcccc gaaggcgtca aaattgtcct tcaggccgac 180
aatgggatcc tcggtctggg tccctaa 207

<210> 777
<211> 489
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (209)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 777
cccaagcccg gcgaggagga tcccgacctg atcaagtcgg gcaaggaaac cgtcatcctg 60
agctccggcg cctccgtctt cggctcccac gaaagtttcg gtatgatccg cgctggccga 120
ttcgatctca ccatgctcgg tgccctgcac gttacccgat acggtgatct agcgaacttt 180
atgctccctg gtaaggtcaa gggtgtcgnc ggcgccatgg acctcgtcgc caatcccgag 240
aagaccaagg tggttgtcac catggaacac accgataaga agggcaaccc taagatcttg 300
cccgagtgca ccttcccct caccggtcct cgctgtgtct ggaagatcat caccgacctg 360
gcggtctttg atgtcagccc aaccgaaggt ctgaccctag ccgagaccgc cgagggcgtg 420
accgtcgacg agatccgcag caagactgcc gctccgttca aggtcgctga gaacctggga 480
acgttttaa 489

<210> 778
<211> 186
<212> DNA
<213> A.fumigatus

<400> 778
attaggttga cccaagggcc cataatgctt tggtccaatg ttccccatta ttttaaagtc 60
atctggttac cccacgcaat ccatgttatg cctataaccg agtattatgt tatctttata 120
caaactttcc ttttttactt agtctacagc cagaatgtgt ttctgggtct aaagacggaa 180
agttga 186

<210> 779
<211> 297
<212> DNA
<213> A.fumigatus

<400> 779
agatatggac cactccttga cagcacatcc ctggataagc atacaacgct ttcctttagc 60
tatgagtcat atttacctca tatcatattc tgtgagcatg actttctgca tactagttta 120
gacatgagcc agcctacaac tgatctaatt atccagctgc aactgcaaca tgccgatcat 180
tattttgaag cctccaaggg aaatcgcgca accccaagga ccaagagcta tagttcagtt 240
aacagaagga attgcaaggt attcatcagt cacttgtgga tagatgaatg gccatga 297

<210> 780
<211> 696
<212> DNA
<213> A.fumigatus

<400> 780
gaacacatca tggctgataa agacgcctcc agcaccccca acaccaatac catctacgcc 60
caatcgcacc gcaaccaaac ctactccatc accaacaacc ctccttcaga agaacacccc 120
cgccgagccc tcaaaccagg cgtctacatc ccgctcctcg ccttcttcgc ccccgaaacc 180
gaagagctcg atgagtctac agttgcccag cacgccatac gcatggccaa agccggcgcc 240
atgggcctca tcacccaagg cacctacggg gaagccgctc acctctccca cacagaacgg 300
gcccgcatca accgcacaac acgccacgcc gtcgcagcag cgggataccc gcagctcccg 360
ctgatcgccg gctgcggcgc gccgtccaca agcgagacga tcgagctgtg ccacgatgcg 420
ttcgagtcag gcgcggacta cgcgctcgtc ctccctccgt ctacttacaa ggcgcagtac 480
acgcttccga gccttaaggc ctatttcgag gatgtagctg gtgcgtcgcc catcccagtg 540

ctggtgtaca actaccccgc cgtgatgggc gtggacctcg acgcggagac gcttgtgtcg 600
ctggcggaac aaccgaatct cgtggggtgc aagcttacct gtaacgatat cggaaagctg 660
tcttctacgc ccagcggccg aaggaacgag catggt 696

<210> 781
<211> 828
<212> DNA
<213> A.fumigatus

<400> 781
ttcggaatca gggcaaccct aaatgtgttt tggcgctttg tttgggacat cctccaggac 60
aatgcgaatc tccagatggg aatcatagag ttacgggaga tgttcgaaag ctcgaaccag 120
gaggtgcaga atttgcgaga tcagatcctg tcgcatcagc ccttgacttc aaccggtgaa 180
atcgatgagc gagagccccg gccgtcatcg ataacattga ataacgaact ggaatcgaaa 240
gaatcgcgcc gcgtctcgca agaattccac attcatcatc attaccatac ccctgccatc 300
tccgtcggct ccaagaagga gaaaagcacc atctttcgtc ggtcaaaaaa gagacggtct 360
ctgggagcca ccacagtcat gcactcggcg tcgacctccc aggcgtcccg gaagttctcg 420
caccagcacc agtcatccat ctcttcgacc tcaactattt tgtctcagac gtctgtgtca 480
attccgccgg ccgcagcttc ccgccgttgg tcactgcaat cacccgctgc cgattcctcg 540
ctagcgagct cgccgcagtc agggtatcga gcatcatcca tcttcgaccg ggtggaacgc 600
ggttgcgaat cgtcacaacc gactagtcct gaaagcacgg ctgtctcgtc tccggtaatg 660
gcctcgcgcc acaagaacgt ccctttttgat gtaccttcc ggcccctgga tggacttgaa 720
agaacagaga gagtcggtga tgattcaatg cacttggcat acgatgattc tggggaccac 780
ccgaataatg tgccccacga gggccaagga tccgcgcaaa gttacggc 828

<210> 782
<211> 327
<212> DNA
<213> A.fumigatus

<400> 782
atggagctac tccgaaggcg cgccaacccg gatgtggaag actcttacgg attcgccctc 60
acgcaagcca taagaggcgg taatgttgag ctcgcaatgg agctactccg aagaggcgcc 120
aacccgaatg cggaggactc ttacggattc gccctcacgc aagccataag aggcggtaat 180
gttgagctcg cagtggagct actccgaaga ggcgccaacc cgaatgtgga agactcttac 240
ggatccgcca tcacgcaggc tagaggaagc ggttcaaaga ggttagagga ggcgtttctg 300
ggctgttttt cagacttctg tggatag 327

<210> 783
<211> 756
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (82)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 783
ttcggcaccc tccgctttcg cacattcgtc gcatcatcac ccatggaaaa ctacaccatt 60
cccctagaaa aggctgtcga cntgatgcct gtgtcttcgc aactggtacg cctcttctct 120
ccagttgttt tcccttgctc tggtactcgg tcattcccta tccaatatac tgaacttcgt 180
cctcaggaca ccttcaccaa cgctcaagca ctgtggagct ttgtgggcgg atatggagtc 240
tacggcggat cgactgtcgc ccactgtctt gtggccgccc aaaagaccat ccccagtgat 300
tatgttgccc attccctcta ctgtagcttc gtgccccccg ccaatccaaa gcaacggatt 360
gagtatcgtg ttgaacgaac acgcgatggg aaaagcttcc tcacgaggac cgtccacgcc 420

acccagaagg ccaaggtgat ctcagcatca atcgtcaact ttgtacgggc gggaacatac 480
agtaagagca gcgacactga cagggcagga aggctcgaac acgggccaaa aaggcccgag 540
gggttgacag tacccgatga agccgagatg gatgggaagg ggatcgatgg gccatttgag 600
atgcgctggg gggaagttgt gtaccgtggg tcgttccctg gctctagccg tgcttggggc 660
ttgctcgctc tttggacttg cttagatcta agatggataa acagaaaggt ccgacgactt 720
ggtccacact cggatccgat actggatgcg agctaa 756

<210> 784
<211> 240
<212> DNA
<213> A.fumigatus

<400> 784
acagaaaggt ccgacgactt ggtccacact cggatccgat actggatgcg agctaaggaa 60
cccatgcaac agacggatcc tcaggtccaa cttgcggcgc tgtcatacat gtccgacgcg 120
tatttcattg gtgctgcagt acaggtatat gatgtgcccg gtcagacgtt cgggaccaaa 180
atggccatgg cagctagttt gaatcatgca atttacttcc accaccctga cgcgggtttt 240

<210> 785
<211> 420
<212> DNA
<213> A.fumigatus

<400> 785
aacactgtcg gatccttcca gccccgtggt gaagacccgt tgcatgtaca gctcacactc 60
agtcacttcg ccatgtccag cgccgatctg ggcgtcgatg agtcgttcgc gcagaagatg 120
gtgcgcacga ccatggacgt tgattgcccg ccgtggctgg actttctaca tggtggcctc 180
aatttccagg tggtgcacca tcttttccct cgcctcccga ggcataactt gcgccgggcg 240
cagccgtatg tcaaggaatt ctgccgcgac gttggaattc cctatgtcat attcggtttt 300
acgcggggga acaaggaagt cattagtaga ctgggtgagg ttgccgacca attgagggta 360
ttggaggaat gcagaaaggt tgctgcgaag gatttgatcg ggggtcgcca tggccgttga 420

<210> 786
<211> 267
<212> DNA
<213> A.fumigatus

<400> 786
catttgtcta gatcacgagc gaacctgacc attctgggct cctttaccgg acttttctgc 60
accgtgggct tcttgaactc gtttggtgcc tttggagaat actatgcgaa gaatcagctt 120
gcgaataagt ctgaatccac aatcgcatgg cttggagctc tcagcatctt ctttgtattg 180
tccgtgtccg tagtgtctgg ccctatactg gacgcctttg gaccaagggt gcgtccccca 240
tacattcttg aaatgttgtg tagctga 267

<210> 787
<211> 582
<212> DNA
<213> A.fumigatus

<400> 787
ctttggtcct cctctgattg ccgacatgga cacggggtac ggaggtatgt attccccact 60
cctcttcaag cgcctaggct aaccacacca ggccccctta tggtcgccaa atccgtccag 120
caatacatcc aagccggcgt agccgggttc cacatcgagg accaaatcca aaacaagcga 180
tgcggccatc tcgcaggcaa gaaagtcgtg tccatggacg agtacctgac ccggatccgc 240
gccgcaaagc aaaccaagga ccgcctccgc tcggatatcg tgctgattgc gcgcactgac 300
gccctccagc agcacggcta cgacgagtgc atccggcgtc tgaaggcggc gcgggacctt 360

ggtgcggatg tgggtctatt ggagggattc acctccaagg agatggcgcg ccaggcggtc 420
caggacctgg cgccatggcc gttgctgctc aacatggttg agaacggggc cggcccggtg 480
attacgacca aggaggctaa ggagatgggg ttccggatca tgatcttctc gtttgcgtcg 540
ttggctcctg cttatctcgg catcaaatct gccctagagc gg 582

<210> 788
<211> 327
<212> DNA
<213> A.fumigatus

<400> 788
gggactactg acaccattag caacggcaaa atgttctatg ggattctcgg agactccaac 60
ggtgacagcc ctcaggtgac cggcgaggcg tcctggttga tggcccggac ctgcttcccc 120
aacgagggcc tgaacggcaa taacggccac accggtgtcg atgtaacctg tatgttcttt 180
tcggccattg ctcttcccgc gctaatgcaa gcagacatcg tcttcaccgg caagaatgca 240
gtgctcccca gcagtgcctt gacgaaaaac tacatcacca acttgtcttc accacggggc 300
tggaaggatc cgacagtgtg cgaggat 327

<210> 789
<211> 492
<212> DNA
<213> A.fumigatus

<400> 789
ccaacctaca gcccggttct atcctcatct cctactcttt cgtcggtttc atcgtctatc 60
tggtcatgtg tggtctggga gaaatggcca cttggttgcc catgccctcc ggcttcactg 120
gctatgccgt ccgtttctgt gaccctgctc ttggattcgc cattggttgg acgtatgtca 180
atctatcatg gtttaccgtc aagactgcgt cgcgtcgctg acacctttgg ccactacagg 240
tactggttta aatatattat cgtcacaccg aaccagttaa cggccggcgc gctggtcata 300
tcattctgga tcgatgcctc gcgagtcaat gcaggcgtgt ggatcacagt cttcctggtg 360
ttgattatct ccatcaacta ctttggtatc cggttcttcg gtgaatttga gttctggctg 420
tcctccttca aagtgatcgt cattgtcggt ctgattctgc tctccttcat tctgatgctg 480
ggcggcggcc cc 492

<210> 790
<211> 228
<212> DNA
<213> A.fumigatus

<400> 790
caactaacca acctacagcc cggttctatc ctcatctcct actctttcgt cggtttcatc 60
gtctatctgg tcatgtgtgg tctgggagaa atggccactt ggttgcccat gccctccggc 120
ttcactggct atgccgtccg tttctgtgac cctgctcttg gattcgccat tggttggacg 180
tatgtcaatc tatcatggtt taccgtcaag actgcgtcgc gtcgctga 228

<210> 791
<211> 396
<212> DNA
<213> A.fumigatus

<400> 791
acctcaatca taatggctga agtcgcagag aacggtcctg tgccggtgaa caatgagaac 60
accgctcctg gcgccgctac tgaagaaaag gagcagaccg agaagaccga gcagacgaat 120
ggcgatgctg ttacagtatt ccatgacccc gagaatttca acgtgaagca tccgctcatg 180
cacgaatgga ctctctggtt cacgaagcca cccagtggca aggtacgtgc catagccatc 240
gatatacggg tagactcgtt aacactgttt gatttgcagg gcgacaactg gaacgatctg 300

ttgaaggagg tcgtgacttt caactcggtc gaagaattct ggggtatcta tgtacgtcat 360
ttcatttatc gatgcctgtc tggtgagcta tactga 396

<210> 792
<211> 399
<212> DNA
<213> A.fumigatus

<400> 792
aacaatatca caccaacttc tgaactgggt ctcaaggcgg actatcatct cttcaaaaag 60
ggcatcaggc cagagtggga agacccccag aacaagcacg gtggcaagtg gtcatactcg 120
ttcaaagaca agcgctccgt accgatcgac gatctttggc ttcacgctca actggcagct 180
atcggcgaga ctcttgagaa cgatggtgac aacgaagtta tgggtgtggt tgtgaacgtg 240
cgcaagggat tttaccgtgt tggtctgtgg acacggaccg tgggcaagag cattcccggc 300
gacaagaacg gccggacacc cgctcaaggg aaggagattc tcgaaaacat cggtcggcgc 360
ttcaaggaag tgctacgcct gaaggaaact gatgtcgtt 399

<210> 793
<211> 510
<212> DNA
<213> A.fumigatus

<400> 793
gacgctggag tctcaacagt gcttgggttg tgtgttttca ttctcagcat tctttcgctc 60
tactgggccg tccaattccg gtcggaagac aggctgcaca ctttgaccgt ctgggtggtc 120
gatttcgata accaggtgga cccatacagg aatgagagca tcacgcccat tgttggacca 180
gccgtgacag atgtcgcgaa tcggcttatc aagtcggaga gagaacacgt gggatatgaa 240
atcagatcgc cagcagactt caactttgat ccttgggcgg tccggcaagg ggtctatgat 300
gaacatgcgt atgccgcaat cattgtcaac cctaatgcta ctactctcct atacgaagcc 360
gtgaccaacg gccactcgtc gtatgatccc actggcgctg ctcaatttat aatcatcagc 420
gcgcgtgacc aggccacata ttccaactac atcgaaccgg ccttgtcctg gttccagttg 480
gaagttttcg ccgaatttgg ccccaggtga 510

<210> 794
<211> 297
<212> DNA
<213> A.fumigatus

<400> 794
ccttgccttc agaagtcccg gaaagccatg gccgactcaa gtgactatcc ggatttccga 60
ttcgtgaagt tggcaatcgg tgtcccggac atgacaaagg ccatggagta tatcaggagt 120
cacaatgtta gaatactcaa agaagctggc gtgactcagg gttcagaggt cgtggctact 180
ttcctgggtt gcgatatgcc cgacaaggga tttgacaggc ctttgtggga agccgccgtg 240
gctgtccctt ttgtggaaga cccagatgga tacctcattg aaataatccc atattga 297

<210> 795
<211> 285
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(4),(10),(12),(13),(14),(15),(23),(32),(33),(57),(147),(151),(179),(196),(223),
(224),(262)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 795
gaanagaatn tnnnngagcg tcncgaatat gnncgaatcc ccgaaagaaa gaaaatngaa 60
aaagaaaaac tgtcggcagt cagcgaatac cccttgagat ttgaatgggc aagttgggag 120
ctcggtaacc tgccgaagaa cgcgttnaac nacttgccac aaaaaggccc caattcccna 180
aatggaaagg cggtcnaacc cccccagttt atcggaaata tcnnaattgg gaagccaaca 240
actttttttt ggcctgcatt gnaggaactc cgcaaaattt attga 285

<210> 796
<211> 402
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (32),(130)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 796
gctgatacga acccaaataa ttccaggcga tntactaagc aatgtcagat caatggtaaa 60
tgggtgtcat ggacacatac agcggttgcc tatacggcgt tcctgagcgc tcttgtagtg 120
ggaatgtccn tacatttcca caagatcgtg cagaacgaac actatggata cccggatgaa 180
tggttccctt ctgtgtcagc tacaattggt gatcggtatc cggaacggtc attctttcaa 240
gtcttcatcg ccattacctc aggtcctcga ttcgctctcg ttttcctttg gtatcttctt 300
actgcacggc cccaactcga ctcttcccaa gatcgttgct ggtgttgggc tgttccggac 360
ttttatgtgt ggtggttgga catatgtcac gtcgaccgat ga 402

<210> 797
<211> 615
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (12)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 797
tgggaatgtc cntacatttc cacaagatcg tgcagaacga acactatgga tacccggatg 60
aatggttccc ttctgtgtca gctacaattg gtgatcggta tccggaacgg tcattctttc 120
aagtcttcat cgccattacc tcaggtcctc gattcgctct cgttttcctt tggtatcttc 180
ttactgcacg gccccaactc gactcttccc aagatcgttg ctggtgttgg gctgttccgg 240
acttttatgt gtggtggttg gacatatgtc acgtcgaccg atgaccatga ctggcatgat 300
atcttcatga tctcttacct cgtcgcgaca ttgccttgga cccttggttg cctggcactc 360
agtcccaaca accgccgcgc cgtgaagtac agaaagatca tggcaggcct gttctttggc 420
accctagtac cactgatcta ctacttcatc caacacaagg tgcacaaggt cgctggtggt 480
gagtttactc tttttcttta tttggcatac cgttctctaa caactctccg aagcctatac 540
gaaatatgcc ttcttcgagt ggtctcttat cttgttcgac gtgggattcg atgcggtcac 600
ggcattggac tttga 615

<210> 798
<211> 495
<212> DNA
<213> A.fumigatus

<400> 798

agaaaagaga agggacctta ccaagttgtc ggtgccgtag accttggtgt tggtatccac 60
gacggaggtg ccgtcatcgg ggcccatctt ggctgtgccg acgaagtggt cgccgctggt 120
cactttggcg aggatgtcgg ccggcgagct ggacccctgg acggtgtaag aggccttctt 180
gaggtcgtcg aggagctcct gcaggaacga agtaagggcc tccttgtcct cgggggtctg 240
cagcaagggg tcggattcga tggtagtgga gccggcggcg ttgatgccca gcacgccgga 300
ggatgtggcg ccgtgggtga ggtacagttt catggtgatg atgccgtcgc cgccggggct 360
gcaggaggcc tggaagaagc gggtgacgcc gtcggaggcg acgttcgagg tccagaattg 420
aaggcgatgg ccgccctggg tgaggatgcc ggaaccgctg gcgtacaagc gctgcgcgaa 480
gggattggtg gcggg 495

<210> 799
<211> 540
<212> DNA
<213> A.fumigatus

<400> 799
cccgccacca atcccttcgc gcagcgcttg tacgccagcg gttccggcat cctcacccag 60
ggcggccatc gccttcaatt ctggacctcg aacgtcgcct ccgacggcgt cacccgcttc 120
ttccaggcct cctgcagccc cggcggcgac ggcatcatca ccatgaaact gtacctcacc 180
cacggcgcca catcctccgg cgtgctgggc atcaacgccg ccggctccac taccatcgaa 240
tccgacccct tgctgcagac ccccgaggac aaggaggccc ttacttcgtt cctgcaggag 300
ctcctcgacg acctcaagaa ggcctcttac accgtccagg ggtccagctc gccggccgac 360
atcctcgcca aagtgaccag cggcgaccac ttcgtcggca cagccaagat gggccccgat 420
gacggcacct ccgtcgtgga taccaacacc aaggtctacg gcaccgacaa cttggtaagg 480
tcccttctct tttctttaca ccccttgcat cttgccaaaa gttctaccgc agtatactga 540

<210> 800
<211> 279
<212> DNA
<213> A.fumigatus

<400> 800
tacatcgtcg acgcgagtat ccaccccgac ctgccaaccg gcaatacgca ggccatcgtc 60
atgatcgccg ctgaggctgc cgtcgcgcgc atccttgcgc agggcagcgg ccccagctct 120
tcttctagta tcgctgtttc cgcgcctagc cagaacactg ccattgctgc cgtgtccagc 180
accccgagtg ctactgcggt tcctgttccg gtgcctattc ctaccggtgg tcaggagacc 240
cctggcgggg actcccgctg cagcgcctac cgaaactga 279

<210> 801
<211> 189
<212> DNA
<213> A.fumigatus

<400> 801
agatataggc ctctatctag cttctttata aagagtacta gtactgctac taggctagat 60
gattccctaa tctacccttt cttaagtatt ttattaaagt atttatatag agcctctagc 120
tttagctata atatagtaaa taaggggcta tatagcagta acttcctgtt aagtagctat 180
atcttataa 189

<210> 802
<211> 492
<212> DNA
<213> A.fumigatus

<400> 802
actcaaccga ttgcggctgt gttgacaagg gctaaaatac gagttgagca caggctagat 60

aacttcaaaa tattatctgg tgagggtgag ggggatataa ggctggcgtg tgctcccttt 120
gttaagtctc gattgttgtt acctttcccc tatcacattt ctgtcatgtc gcacccccag 180
tatacctacg gcggaccccc gcaaccccct tataacagcg ctgggtatgg tcagccgggc 240
gcccatcaac agcagccggc cccgttttat ccaccacaac agcctggtgg atatccgccc 300
caaggggctc ccccgcagca atttcccccc tctggtcagt accaacagcc atatggtgcg 360
ccgccgccgc aacaacaatg gccgggccaa ccaccgcaac atattcctca ggtaggcaat 420
ccaccaccgc agcatttatc cgcctccagg gagcttaccc ccaaaatcaa taccctccac 480
aggggccaat aa 492

<210> 803
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (204)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 803
tcctattctg cggaggctgt cgtcagacgg cgttgtcgcg atacccagga acggtgggag 60
aacttttta ttggtgttcc cgattgggta tatgaggagg aagtgatctc ggggacagcc 120
gtcacatggt ggtcgaatga cgccaagtat atcgctttct tcagaacgaa tgagacgagt 180
gtgcccgagt ttccggtaca gtan 204

<210> 804
<211> 744
<212> DNA
<213> A.fumigatus

<400> 804
tacatctcgc gaccatttgg gaagaagctt ctcccggggt tggagaatta ccccgacgtg 60
agggagatca aataccccaa gcctggtgcc ccgaacccag tggtcgatct tcagttttac 120
gacgttgaga agaatgaggt cttctccgtc caagtagcag acgactttgc cgatgacgac 180
cgcatcatca ttgaggtttt gtgggcctcc gagggcaaaa tccttgtgag atcgactaac 240
cgcgaaagcg acattctcaa ggtgtatctg attgacaccc agtccaggac gggcaaactg 300
gtgaggtccg aggacgttgc cggtcttgac ggtggctggg tcgagccttc gcagtccaca 360
cgcttcgtcc cggcggaccc caacaatgga cgaccgcacg acgggtacat cgacactgtg 420
ccatacaacg gatacgacca ccttgcgtac ttctcgccgc ttgacaaccc caacgccctg 480
atgctcacat cgggcgagtg ggaagtggtg gacgcaccgg ctgccgtaaa tctgcaacgc 540
ggcctggtgt actttgtcgg cactaaggaa gcacccaccc agcgccatgt ctatcgcgtg 600
cagctggacg ggtcgaatct caatcctttg accgacactt ccaaacccgg ctactatgat 660
gtctcctttt cacacggcac aggctacgcg ctgctcacat acaaagggcc ctctattcct 720
tggcaggcga ttatcaacac gcat 744

<210> 805
<211> 528
<212> DNA
<213> A.fumigatus

<400> 805
actctgcgcg gatctgcatc tcgtgtgaag accgcggtgg agtccagcat gaccgccctg 60
tccaagtctc ccaacaagca caaccgtctc tacgtcactg ctcagcccct cggcgaggag 120
gtctccctcg ccatcgagtc cggcaagatc aacccccgtg acgacttcaa ggcccgtgcc 180
cgtctcctcg ctgatgacta cggctgggat gttaccgatg cccgtaagat ttggtgcttc 240
ggtcccgaca ccaccggtgc caacttgctg gttgaccaga ccaaggccgt ccagtacctc 300

aacgaaatca aggactcttt cgtctctggt ttccagtggg ccacccgtga gggtcccatt 360
gctgaggagc ctatgcgctc tatccgcttc aacatccttg atgtgactct gcacgctgat 420
gccatccacc gtggtggtgg tcagatcatc cccactgctc gtcgtgtcct gtacgccgct 480
accctgctcg ccgagcccag tctcctggag cccatcttca acgtctaa 528

<210> 806
<211> 291
<212> DNA
<213> A.fumigatus

<400> 806
atccaggttc ccgagcaggc catgggtggt atctacggtg tccttacccg ccgtcgtggt 60
cacgtctaca gcgaggagca gcgtcctggt actcctctgt tcaacgtcaa ggcttacctg 120
cctgtcaacg agtccttcgg tttcaacggc gatctccgcc aggccaccgg tggtcaagcc 180
ttccctcagt ccgtcttcga ccgctgggtc tatgctcccg gggtgggttc tgcgctggga 240
gccgcggggg gggggcgggg gtggggagcg ggtggtgaag attgcgtgta g 291

<210> 807
<211> 864
<212> DNA
<213> A.fumigatus

<400> 807
gtaagcccag ggaaccatga ttccgttgga gacccccttgg cgctacacgc aatcttcacc 60
acccgctccc caccccgcc ccccccccgc ggctcccagc gcagaaccca ccccgggagc 120
atagacccag cggtcgaaga cggactgagg gaaggcttga ccaccggtgg cctggcggag 180
atcgccgttg aaaccgaagg actcgttgac aggcaggtaa gccttgacgt tgaacagagg 240
agtaccagga cgctgctcct cgctgtagac gtgaccacga cggcgggtaa ggacaccgta 300
gataccaccc atggcctgct cgggaacctg gatttagacg ttgaagatgg gctccaggag 360
actgggctcg gcgagcaggg tagcggcgta caggacacga cgagcagtgg ggatgatctg 420
accaccacca cggtggatgg catcagcgtg cagagtcaca tcaaggatgt tgaagcggat 480
agagcgcata ggctcctcag caatgggacc ctcacgggtg gcccactgga aaccagagac 540
gaaagagtcc ttgatttcgt tgaggtactg gacggccttg gtctggtcaa ccagcaagtt 600
ggcaccggtg gtgtcgggac cgaagcacca aatcttacgg gcatcggtaa catcccagcc 660
gtagtcatca gcgaggagac gggcacgggc cttgaagtcg tcacgggggt tgatcttgcc 720
ggactcgatg gcgagggaga cctcctcgcc gaggggctga gcagtgacgt agagacggtt 780
gtgcttgttg ggagacttgg acagggcggt catgctggac tccaccgcgg tcttcacacg 840
agatgcagat ccgcgcagag tcta 864

<210> 808
<211> 510
<212> DNA
<213> A.fumigatus

<400> 808
aactcaaatg catcccaatc tgacaaattt tacatcagag ccccagtcga gtatccggtg 60
tatctagggg cccagtacga tgcttcgaca accaatctga cctaccgcat tgattctcat 120
tcgactgtct cttctgcggc tggtccagtt gcacttacgg tttctttctt gtctcccatc 180
accccgacat cgaccctgcg gcagtcgatt cctgcgtcct atattacggt ctatgtccac 240
ggcgatgtgc ctgtcaatgt ctacatggac ctcaatgggc gttgggtgag cggagatgca 300
ggcagtcaaa ttgtctggca gcatgatact ttcggttcta aagggaagaa gccgaccctt 360
cagaaatggc aatttcgcag acagaacgag ctcctcctct cagagattcg ggatcgagcc 420
gaatggggca ccctccactt tactggacct gctgtcagta atcttttcat cccactcgtc 480
attgacagga gcattaattg gctgtactag 510

<210> 809

<211> 273
<212> DNA
<213> A.fumigatus

<400> 809
catccaatgc tgcgtgaaat acaccaatat gacgaaccgc acatccacat cctcgactcg 60
cgcgtcgact gggacagcta cgctccccat ctcgagtaca cccacgagta cgccccctca 120
cacaagcgca tgcagcgatt cgactcagcc ccccagtcca ctctatcggg gcaatcacag 180
tccgggaacg gcctatccgg ctcgcagatt gggggcatcg tccgggggct tcttcgccgc 240
ccggtgctaa gccggctcat cctcctggtt ccc 273

<210> 810
<211> 339
<212> DNA
<213> A.fumigatus

<400> 810
gccggcttag caccgggcgg cgaagaagcc cccggacgat gcccccaatc tgcgagccgg 60
ataggccgtt cccggactgt gattgccccg atagagtgga ctgggggggct gagtcgaatc 120
gctgcatgcg cttgtgtgag ggggcgtact cgtgggtgta ctcgagatgg ggagcgtagc 180
tgtcccagtc gacgcgcgag tcgaggatgt ggatgtgcgg ttcgtcatat tggtgtattt 240
cacgcagcat tggatgttat tcggcccccgg acagggccag gggtactaga gatgtttctg 300
tcagctgaca atggagggtt gctttttgtg tgcgtgtga 339

<210> 811
<211> 324
<212> DNA
<213> A.fumigatus

<400> 811
caaagtatca cagagaacaa agcgaaggat gtacaattct ccggcgcatc aacgcccctg 60
caaaccctca acaccaacca ggcaagcaga ccagatagca agagcaagag cgagagcgcc 120
aatccaccgc cccacagcag tacaaccctc gacgagatga cctccacgcc gaagcgtcta 180
taccgtgagc atctggagac cctgcagact tccctggcgt cgcctccaac gggcggtccg 240
gcgggcaact accatacgtt tgagttcttg cgggttacgc agaatgagaa ggggccgacg 300
ctggcgtggg aggagcacca gtag 324

<210> 812
<211> 324
<212> DNA
<213> A.fumigatus

<400> 812
tctgctctcc agacctatgg ttactgtgct tccatcatca gtagtacaat cgggcagccg 60
ggatggtata gctatttcaa gctccctgcc gaggggggaac cgggatatgc ctcgatcaca 120
acgccggcta tctcgacagc taatggtgtc ttcagcgccg gaggtgctgt cggcacgttg 180
ttcattatgt ggtcatgcga ttactttggt cgtaaggtga acatccagtt cggtgccttt 240
ttctccctct tcggtggcgc gcttcaggct ggcgcaaact cgctcgagta tgttctaatc 300
cgcatattct tggtcaaggc atag 324

<210> 813
<211> 210
<212> DNA
<213> A.fumigatus

<400> 813

gatacccata tcgagaaaat gaccatcgat gattatctct ccgtgttgcg gccaaaatac 60
ttcggaacct ggaacctgca ccgccatctc ccagcggacc tcgacttctt cgtcatgctc 120
tcttctataa gcggaatcat cggaaacgcc acccaggccg cgtacgccgc cggttccacc 180
cttcctcgac acattcgcca tgtatcgtaa 210

<210> 814
<211> 366
<212> DNA
<213> A.fumigatus

<400> 814
gtcatgacac cgaagccaca agctgcccta cttcgtgcag atgcatctta tatacttgtt 60
ggcggtctag gaggtcttgg acgagccaca gccctctgga tggctgataa cggggctcga 120
accttgatct ttgtcaatag aagtgggctg tcgagccagg cagcccagga aacagcacga 180
gatttgaagc aaaagggagt tcgcgtcatc attcatgctt gcgatatatc tgatagcaag 240
aaagtcaaga agatggtgat cgagcttgaa cggaacgccc ctccaattcg aggggttatt 300
caggctgcca tggtcctccg ggtacgttcg ttcaatcgac gaagactgca cccctgtgga 360
agctga 366

<210> 815
<211> 672
<212> DNA
<213> A.fumigatus

<400> 815
gaagacatag cggacatcat caagacatct taccctaata agtccggcat tatctactgt 60
ctatcgcgca aaacttgtga aactgtcgcc gaagctctta cgtcgcaaca caacatcagg 120
gccgaatatt atcatgctgg tatggattcc tccaagaggg cggaggtaca ggaatggtgg 180
cagtccggcc gtgttcatgt gatagttgcg accattgcct ttggaatggg tatcgataaa 240
cctgacgtac gcttcgttat tcaccacagc atcccaaaaa gcttggaagg atactatcaa 300
gagactgggc gggcaggtcg agatggaaag cgctctggct gctatcttta ttattcttat 360
cgggatgcga cctctatcat gagcatgatt gacaaaggcg agggggggcaa acaacagaaa 420
aatcgacagc gccaaatgtt acggaacgtc atgcagtact gtcttaatct tgcggattgc 480
agaagagtgc agattcttgc atacttcaat gagtattttc gcccaattga ctgcaacaag 540
tcttgcgata attgcagatc tgacggtatt tttgagcacc gtgacttctc tcagcaggcc 600
gcttctgttt tgaagatcgt gcgatactgt cttcaccacg gggctggatg gatcccgcag 660
cgggtatacg ag 672

<210> 816
<211> 534
<212> DNA
<213> A.fumigatus

<400> 816
ctcgtggtga agagacagtg cccaaatgtt ctacttcaga tgaacctcaa cctgctctct 60
acaactaccc ttcaaagaat ccgccatctc aagtccttca tcaaacgctg tcacggttgt 120
tttttcacca caaaagacat gaccaagcag ttttgcccac gctgcggtaa agataccctc 180
actcgtgtat cttgcaccac agatgcaaac ggacaattca agatgcatct gaagaagaat 240
atgcaatgga acaatagagg caaccgatac agcattccca agcccaccca cggcagcgcg 300
agtggaaagt ggaagggcgg cggcggaaag gatggatggg gaatagagct cattcttgct 360
gaagatcaga aggagtacat cagagcatca gtggaggaga gtcgaaggct ccgtaaggaa 420
cgagacttga tggatgagga ttacttgccg ggaatcctga ctggcgaacg gaccaagcat 480
ggtgggagac ctaaagtcgg cgccggaaga aacgtcaacg caaggcggcg ataa 534

<210> 817
<211> 480

<212> DNA
<213> A.fumigatus

<400> 817
acgaatcccg caccggacga gaacacgctt cagaccttaa tcgagacgaa cgatgagctg 60
tcggtcgcgt tgtccaagta ccagcatgcg ttcctcagcg cccgcaaagc aactggcaac 120
tcggggagtc agtcacccac tccgtcgaac ggagccgctg acactgggac caatcgtcca 180
ctccctgtgg ccccagtgcc gcagcgacaa gggcaaagcg cctcgccctc ggtcttctcg 240
ccaccatcgc cgccgccgcg gcagcaacag caacagcagc agcagagcac tgcaacggtg 300
gctcccttgt cagcgacgtc ttcggccgca gctccggtgg gtaataatgc ggctcggtac 360
gagtaccggt cggaggattt ccaagtaccg aatccatttg cggatgacta cagcacaacc 420
accacagaga atcaacaaca ggcaggatca taccagcgcc ctacgcagca cactctttga 480

<210> 818
<211> 246
<212> DNA
<213> A.fumigatus

<400> 818
tgtatttgtc gagtgtcaca cgaccgtgca actgtagcgc catgtacttg ctcggctcca 60
acatttgcac ctgttgaggg tagcctgttc aacaattctc accacaacgg cgacagcgtc 120
ccgatgaagt acgatcctcc tccatcctac atcctactcc ttcaaatcag cgcgtccatc 180
cctgcagtgc ttcaaccgtc actcatcaag ttgatcttta cctatttgcc cgtaaattcg 240
ggctag 246

<210> 819
<211> 186
<212> DNA
<213> A.fumigatus

<400> 819
tacatgggca tgcgaggcat gaactggggg atacgaactt ttatagctgc ttggacgccg 60
cagggtcgca aggctaacca ggttagggca gtaaaactct atctctatcg tctacggcgt 120
actgcagagt atctgttgcc tattgatatt ggttattggt gttgctatgt actgtgtagt 180
atatag 186

<210> 820
<211> 201
<212> DNA
<213> A.fumigatus

<400> 820
aagttcgtat cccccagttc atgcctcgca tgcccatgta ctactagagt actctaccca 60
tgtgaaggaa tatggacccg gcgagtaata tctactgatc ggtaccaggc taaccatgaa 120
accactatca agctcaagcg taaggccaag ggaagagctt acttgctgat caacaataag 180
aagctaaaac ggcagcctta a 201

<210> 821
<211> 237
<212> DNA
<213> A.fumigatus

<400> 821
acccctatga caactccaga tgcctttcga gatgcggagt acatcgctga cgtgtccggc 60
atatcttatg gaaacgtcgc gaatctcacc gagcaagatg ctaatgtggt gcctcgagag 120
aatgagcgca tgagaaagct gcagctggct gccaaggtcg cgttcattga tcgtttactt 180

cgcgatcttg atatcctcat ttactgcgag ctatctgcgc tctattacat ggagtga 237

<210> 822
<211> 867
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (796),(861)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 822
tatgtgtctc cctccccact tacattgtca ttacaggtca ttgattttgg gcccttcctg 60
aaaggaacac cgtctgacaa acatgctgtt gctgtttcca tcacaaatgc attcaagaca 120
tctggttttc tctacctaaa aaaccatgga atcccatttt ccacagtatc ccaggtattt 180
gagacatcag cccgcttctt cgctcgcccc caggatcaga aagacagttt gtgctggact 240
tctccgcagt cgaaccgtgg ttacgtgaag acgggacgag agaagctgag cttacctgaa 300
gataatgtcg acaaagatgc cgctagactg gcgacaccag atcttaagga gacaatggat 360
attggtcgcg atgatgttga aggtcatcct aatcgatggc cagaccatat cgatgacgag 420
gggaaggagt tcaagaaagt gattcagtta ttcttcggaa tgtgcaaatc cctgcataca 480
gaggtcatgc gggccatcgc tcttggattg aacttaccag agcactactt tgatgaattc 540
gtggatgcgg gagataataa tctccgtctg ctgcattacc catctgtgcc caaagatgtc 600
ttcaagaaaa gctcaggaca ggttcgtgct gcaaagcaca gtgattatgg atctatcacg 660
ctcctgttcc aagatcgtcg tggaaggctg caggtacgga gtctcaaggg gcactttgtc 720
gatgctacgc ccatcgcaaa cacagtcgtc gtcaatgctg gtgacctact agctcggtgg 780
gtcaacgata tcatcnagag tactcgtcat cgcgttgtcg agccccaagt attgcatgtg 840
ttcgacggag atgactcctc ntatact 867

<210> 823
<211> 591
<212> DNA
<213> A.fumigatus

<400> 823
cgtggctcaa cacaatatat aaacatcaac cctacaatac tacagccaaa aaaccaagat 60
agagacatgg caaacgtccc gcacacctac ggcaacgaag tctacgccaa cggcctccag 120
aacatcaaac cggccatcag cttcaacccg cccgactggg aaacccaggc ccgagacctc 180
ctctccgccg acagctacaa ctacatctgg ggctccgccg gcctccgcaa aaccgacacc 240
gacaaccgcg atgccttccg caaatgggcc ctcatcccgt cacgcctcgt ctgcgccgac 300
ttcccctccc tgaaaaccac cgtgctcggc catgaatacg actaccccat cgccgtcgcg 360
cccatcggcg tccagcgcat tttccaccgc gacggggagg tcgcggccgc gcaggctgca 420
agcgcgcagc gagtcccgta tattctgagc acggcctcgt cgacgagcat cgaggatgtc 480
gcggcggcga gcggcgacag agcgcgctgg taccagctct actgggcgcc gcgcgagcac 540
gatgagatta cggtgagttt gcttcaaagg gccaagtgcg cgggggtata g 591

<210> 824
<211> 426
<212> DNA
<213> A.fumigatus

<400> 824
ccagtggata tccttgtttc ctcaccattc ctagcaaaat atagtcagcc ccgaagagtg 60
gcaacgagac tgttacagga actcgccgcg ttgcgccgtc agttgcccat ggtgcgcatc 120
cacgacccag ctcggttcca attcgataca cctgacggag ggaagagcct gttggatctg 180
ttcgaagggc gcaaacaact aaccctctac catttcatgc tgggacccca tgagactcag 240

ggctgcgtgg gttgctcatt ctgcgtgaac catattcccg atctccgcca cccctggagc 300
agggatactt ctttcgtcgc ctggctcccg cgcccttgtc tagaatcact gccgatagga 360
atcagatggg ctggaagttt ccgttcgata gttctgcaaa aacgtacaaa cgtgggccga 420
agttga 426

<210> 825
<211> 210
<212> DNA
<213> A.fumigatus

<400> 825
ggtattatgg tctacaagct cgttttcggg atccctagag atctaacagg atctagtata 60
agtaaattat cttgtcatgg aagattggag cgtcctagga ttcccagttc tcttgctcct 120
tatctgttta gtgatgctgt agagaggtac atcatcccag gtacggagta ccttatccag 180
agactacctg cctccaagtg tgtttcctaa 210

<210> 826
<211> 213
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (42)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 826
ctccggagag ccgaagatag cggatatgag gacgagtatc angtcgagga cttggaactt 60
actggcagcg actatgtcat tcccacgttt gccggcagct ttgaccacgt ctgggagcag 120
accggcgcga acggggagga agtcagcgag actctgcaac tcaataacat gaagaacatc 180
tcaggtgcgt ctcgaattcg acgtttaatg tga 213

<210> 827
<211> 807
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (677)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 827
ctagattcta tgttttcact ttctacgttc gagcaccagc ttgtcatgta cgtgacatcg 60
acagacaagg agacatttgc cgcggctttc gacatttcca ctgttcctgt tgtcacacaa 120
gaacaggcat tggctgaaga gaggaccaag aagctcacaa ctgcaacacc caccctcaag 180
gctccttctg caggtcctcc caaaggcaag gccaatggcg tcgccgaggc ggcaaccgca 240
gcggcaactc agaaatatgc cgagcagctc atgcagattc ccgagctcaa ggcctacgga 300
actttgctca agtcctctgt gcctgttgag cttactgaga gtgagaccga atacgtggta 360
acagccgtca aacatgtttt caaggagcac attgtggtgc aatacgacat taagaacact 420
ctgcccgata cggtactgga ggatgtaacg gtagtcgcca ctccttctga ggaagaggtc 480
ctggaagaag agttcatcgt gccagctccc aagctagctg caaacgagcc tggtatcgta 540
tacgtcacct tcaagaaact ctccggcgaa cacagcttcc ctgtcacatc atttacaaac 600
atcttaaaat ttaccagcaa agagattgac cctagctccg gagagccgaa gatagcggat 660
atgaggacga gtatcangtc gaggacttgg aacttactgg cagcgactat gtcattccca 720
cgtttgccgg cagctttgac cacgtctggg agcagaccgg cgcgaacggg gaggaagtca 780

gcgagactct gcaactcaat aacatga 807

<210> 828
<211> 402
<212> DNA
<213> A.fumigatus

<400> 828
actcatcggg cgactatcga cacacgcgtc cggcgcatta tcagacgcat caaaatacag 60
cagcaattgc acctaaaatc ctcatcattc ttccatccat ccatccattc atcagccatc 120
gttgtgctca gcaaacgatc atgtacggcg aactcggaaa caaactggtc cgccgcgtct 180
tacaacaccc aaattccatc ccacactatt gctaatacca gtgacaggtc caacacgcca 240
agcgcacgca atccctcgtc cacctccccc cctaccaaac cgaactggta cgtaccgtcg 300
cccgcgaagt ccgcgatctc gaccgcgacg tcgcccgcct cctcgagccc ttcagcggca 360
gcttcaatcc ttctgcggac ccggcgccgg cctgcgccct at 402

<210> 829
<211> 210
<212> DNA
<213> A.fumigatus

<400> 829
ttagcgccac ccgcggatcc ttccagcccc gtggtgaaga ctagtcctga tttggtcatg 60
attaagagag ttcctaaatt ttctctattt agatctgtga ttggttcagg tactaccttt 120
atttttccta gaatccctag cttccttata aaggctaggt ttataaagtt gcctgttgct 180
cctaagtcaa tcattacttc agctgattaa 210

<210> 830
<211> 213
<212> DNA
<213> A.fumigatus

<400> 830
tatattacta acactacagg cagtaaaaca aagagtatca ccacaaactc aagagggtat 60
tggaaaaaag actaccagga ccatttcata ggaaatgtga ttacgactgg tgtctataca 120
aatacttcta aggacacccg cgatataaac aagtactatg gattacttgt tacagtaata 180
attgcagtat ccaccataat aataaatata tag 213

<210> 831
<211> 855
<212> DNA
<213> A.fumigatus

<400> 831
gaaccttgga agaaatttcc cggtaaatta aaccgggaga atttcagccc aacacagggg 60
aagagaaagc acggttccag gaggagtaaa caccggagca gatggccggc gattgaagcc 120
gtggaggcgc aattcgatcc caaggatctg gccgaacagt ttgccattcg tcgggacccg 180
atgaaacttc actatctgga tgatttctcg accatcgaac ctggggtaga caagcacgtc 240
cgggcgcccg tgaccaatac cgattacaat gccgaactga aaagcgagag cgactttgca 300
gaggattttg gccgtttcct tgcagaactt cccagagatc cgaccgcggc cgactgggta 360
cggtttgcgg agactgtccg tatgacccat ggcaaggagg agaacgagtt gaatccccac 420
agtgctttgg ttcccgattt gcttgctcct ggagagtcca tcagtgggga gcggaaggag 480
atcaatttct tcaaggagac agacccgagg gccagagagt cagaggaggt tacagatgca 540
ttgaagcagc tccttttgac taccggatat tcacagaagg agattcagga tctgaggaca 600
aagacgctcg tttcccacgc ggttgtcaac cagacccgct tgggtaaggt ccgtcgtcag 660
tactgcttgt cgattgctgg taatggtaac ggtttgctcg gaattggcga agccaaatca 720

gaagaaccgg ccgatgctca gacgcagtcc agatacagag ctattagaaa catgcagccc 780
attcttcgtt acgaggaccg gaccatcttc ggggatgtcg agggtcttcc ccacggggct 840
ggaaagaacc gcgct 855

<210> 832
<211> 921
<212> DNA
<213> A.fumigatus

<400> 832
agactctacc gaaaggtagc tccatggttt ggaagcagcc gacagagtgt acgggccgtt 60
aacgacctct ccatggacgt cagaaaaggt gaaattgtgg tcctcctcgg tgcaaacggg 120
tcgggcaaat ctaccacact ggatgccatc tccggtctaa cgacaatcac ctccgggagt 180
atcgacgtag actacggcga ctccggcgga cggtttggtc tctgcccaca gaagaacgtt 240
ctctgggata agcttacagt gaaagagcat ataaagatat tcaacaggct gaagagtacc 300
ggagaagtgg acagtaatga gcaacttctc aaattgctaa acgactgtga cttagctcag 360
aaagtgagct cgctcacgaa gacgctctca gggggccaga aacgaaaagt tcaattggcc 420
atgatgctta ccggcggctc atcgatttgc gctgtcgatg aagtctcatc tggaattgat 480
ccaattgcac gcgccaaaat atgggacatc cttcttgcag agagaggatc acggacaatt 540
cttttgacta ctcattttct agatgaagca gaccttctcg ccgatcacat cacaatccta 600
tccaagggtt cgctcaaagc acagggctcg agcgttgagc taaaggatag attgggttcg 660
ggttaccgaa ttcatgtgct caacgttcct ggctcagaga aggtaaccgg tctgcagttc 720
gacagtattg aaaaagaggt ccattttgat gataccgtct actccgcgaa agattctacg 780
gaagcttctc gtctgatgtc agtgttggaa gaaaagggtg tcacagaata tcgtgtcagc 840
gggccgacga tcgaagatgt ttttctctca gttgcagaag agttagactc ggaccgacta 900
cgagaagagc cttacatttg a 921

<210> 833
<211> 696
<212> DNA
<213> A.fumigatus

<400> 833
tcgagctccc tttatcattt ccaatttgat agctgcagcg atacccgtat cagcatgcct 60
ctcttttctt cttcttcttc ttcttcttct tctgcaaata agctgaccca attccctcgt 120
gcgcaggcct tcgagaatgc ctccaccagt gtcgctgctt ctcagatgcg taacgctctg 180
aatgcgcttg ccgagaccgt tcccgacccc gaagagaaga agcgcttcga ggccgagatg 240
gacaacttct tcgctctctt ccgcagattc ctcaactaca aggccaaggg caatgtcgtc 300
aactgggacc gcatcaaccc tcctgcgccc aaccaggtcg tcgactacaa tgacctgggc 360
gccgaggcct cggtggagtt cctgaacaag ctggccgtcg tcaagctcaa cggtggtctt 420
ggtacctcca tgggttgcgt gggccccaag tccgtcattg aagtccgtga aggcatgtcc 480
ttcttggatt tgtccgttcg tcagattgag cacctgaacc gtacctacaa cgtcaacgtg 540
cccttcgttc tgatgaactc gttcaacacc gaccaggaca cccagtccat catcaagaag 600
taccaaggcc acaacgtcga catcatcacc ttcaaccaat cccgctaccc tcgtatcatc 660
aaggactctc tcctccccgc tcccaataac gtttga 696

<210> 834
<211> 198
<212> DNA
<213> A.fumigatus

<400> 834
ttcatgcatt tttttttcta ttctaccaca ataagctctc tttatatcat tgccccttt 60
gtcaactttg ctacaatcat tattcccatt gatcgagctc cctttatcat ttccaatttg 120
atagctgcag cgatacccgt atcagcatgc ctctcttttc ttcttcttct tcttcttctt 180
cttctgcaaa taagctga 198

<210> 835
<211> 381
<212> DNA
<213> A.fumigatus

<400> 835
actcgttcaa caccgaccag gacacccagt ccatcatcaa gaagtaccaa ggccacaacg 60
tcgacatcat caccttcaac caatcccgct accctcgtat catcaaggac tctctcctcc 120
ccgctcccaa taacgtttga cgctcctctg catgactggt accctcccgg tcccggtgac 180
gtttttgagt tgctgtacaa ctcaggcacc ctggaaaagc tgctcgacct tggtgttgat 240
tacatcttcc ctctccaatg ccgaaaaacc ccggcgcccg ttgtggaatc tcccgatttt 300
tgcacccacc atggcggaac actggttgcc caattacatt tttggaattt aaccgaacaa 360
caaccaatgc ccaacttcta a 381

<210> 836
<211> 624
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (617)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 836
tccccgtctc ctcgctacat tcccgcccat ttgcaggaag aagtgcttgg caccgccgcc 60
cgctccccga ccccggaatc cgccagtagt gccgccgact atccttcgat cgcctgcgca 120
ggactcaccc tacacagcga caccatgacg gatatgtctg gttccgacaa aaaggatggc 180
agcgttccgc ctactggagg tgacgttcgg tcatcctccc ccggtattaa acggtcggct 240
cctaacgccg accaggatgt ggatatggat ctaggttcga cggagaagag atctgtttct 300
ctaacccatc acacagacgc gatggatata accacagcgg agggaaactc gaacggcagc 360
agtgacaact ctgggtcaga caatgtctat cccacaccat ccagcatgtc gacctttacc 420
gcttccacgg cgacccgaag ggaatccaag gcccaggcct ccatctcgtc tcatgatctc 480
cctcctatcg acgaccaagt cgctcaggtg acctgcacca tggctcagcc gttgaaggag 540
aaacagaagg gatatctggt atccatgtct tggctaaagc gtcttcacgc accggggcta 600
gaaggacacg cgatcgngag ccac 624

<210> 837
<211> 312
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (197)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 837
tgcaataagc atggactaaa taccaaaatg gatcttttga atctaatgca actgggagaa 60
tttcggccta gtgttcacgg cctcggtgat tttgaaccta atattacttt tgttccatcg 120
aaaccctttc tctctgatgg atccacttat catgcggata caatttttgc cattactcct 180
gtctcagcgc tcgtagngaa tgcatcgcgg agtttccata atgtacagtc ctcatcttct 240
atcgtcatca tctatttgtt cgactctcat ggcaccaggt caaccacaaa attcgagtat 300
attgggagca tt 312

<210> 838
<211> 192
<212> DNA
<213> A.fumigatus

<400> 838
tgcaattcac taaacccgat gcgtccacct tctcactttg agcaggaaat gcaaagatcg 60
aaggcctcct tccaagccta cacatggacg gcctacagta caatatcgcc ttgtccatct 120
ttttcattcc ttatgtcctt gctggtacga aagatcaccg tgaacgatat ttttgaatat 180
ctgctgacgt ag 192

<210> 839
<211> 729
<212> DNA
<213> A.fumigatus

<400> 839
actcatagcg cggttccttc gacccccgtg gtgaagacat cagtgatgat acgcaactgt 60
caagagggtc atttgcgtgc ggagagagat ttcctcgttg cttctgcgaa atctcgctgg 120
gtagttccct tgatcgcaag cttccaggac cacaattacc tgtacctgat aatggactac 180
atggtgggcg gggatttcct tggcctcttg atgcgaagaa acattctgcc agagcacttc 240
acgaggtggt acgctgccga aatgatactc tgtatcgagg aggctcacaa acttcgatgg 300
attcaccggg atgtcaagcc agacaacttc ttgatctcag cctctggtca tatgaaaatc 360
tctgactttg gcctggcttt cgacggtcac tgggcgcatg atcaagccta ctacaaccac 420
caccggtact ccttacttga aaagctcggc attcagattg acggtgacgg agaagacagg 480
gaggaacgca agtcacaagg tgcttcaaag aatcacaatg agctcaaacc cgaccggaat 540
ccaccatctg tcaatgtatt agactggcgt gacaataacc agaggcgcgg atttgcccgt 600
agcatcgttg gcaccagcca gtatatggcc ccagaaatca tccgaggaga agcgtacgac 660
gggcgatgtg actggtggag tgtaggcatc ataatatacg aggtacatcc atctaagata 720
ggactttaa 729

<210> 840
<211> 198
<212> DNA
<213> A.fumigatus

<400> 840
agacagtgga gcatgcgttc gaagcaatta aagtcctatc ttagatggat gtacctcgta 60
tattatgatg cctacactcc accagtcaca tcgcccgtcg tacgcttctc ctcggatgat 120
ttctggggcc atatactggc tggtgccaac gatgctacgg gcaaatccgc gcctctggtt 180
attgtcacgc cagtctaa 198

<210> 841
<211> 597
<212> DNA
<213> A.fumigatus

<400> 841
accgagattc tggaaatctc tctcttccac cacccttttgg accacatttc tcgtctccaa 60
atgagaacgc ttatacttgt ctttctgtgg ctcactgccg tcagttccta tccccgtgga 120
attgattggg actatgctat agcgtatcac cagcaagtcc tccaaggaga gaacgatcga 180
gggtttgggc tgaacgagcc attcatcccg actccatctc atatccttcc tgaaaagaaa 240
ccttttttaca ttgatgaaac cgtgcattac tacgagagac acttcaatgg ctcaggggaa 300
aacggggaat accgtcgctc gtcatgtccc gcggtgaatg cgctggccaa ccgggggtat 360
atcaatcgaa gtggaaggaa catcacctac gctgagctgg cgcatgccgt ccgcaaggtg 420
tggaattttg gagatgataa cgttattctc ccaccaaaag aatccctggt gcttcattct 480

actaattcct tcccccagag catgctagtg ttggcgccca acgttcgcaa tgcatggttg 540
ggccggaaaa cactgaatct tgattattcc atgcaaaaat atgttctcgt ttcctaa 597

<210> 842
<211> 672
<212> DNA
<213> A.fumigatus

<400> 842
tcacagtaca gtgacgccac ctatggcccg tctgtgcctc acattcagaa tccgttcacc 60
gctacaggga cggggaagaa ttacggtcgc aatgactcgg gtctagatcc cgagacagaa 120
gctcaaattg cgcagtggca gagcgcttat gccaacaagg aggaagctcc gggaggcaag 180
gtagcaggcc gtcgcgacgg agctacgggc atgccaggtg ctaccgtggg aaccaacaca 240
ccgaccagtg cgacagcgac gagcaccccc acacttgcaa gccacccaga gcaaaatgcc 300
aagaccgttg tgcgatccgg cggtggccag acgtggaccg atccgactct gctagaatgg 360
gatccggcgc atttccgact cttcgtgggg aacctcgcgg gcgaggtgac cgacgactcg 420
ttgctgaaag cgttttcgag gtattcatct gttcagaaag cgcgagtcat tcgggataaa 480
cgcacgcaga agagcaaggg ttatggattt gtcagtttca gcaacgggga tgactacttc 540
gcggctgcta gggagatgca gggcaagtac attggctcac accccattct gctgcgacgg 600
gccaccacgg agatccgtcc gacgactaac cccaaggccg ggaagaagaa cgctggcggt 660
cacagcggat ga 672

<210> 843
<211> 276
<212> DNA
<213> A.fumigatus

<400> 843
aaaaatcgaa gcgatcaatt tgacttggac tgcacggtct ctggtcatag catatgtcag 60
gtcggtccct ctgggacacg tgcggcgcgt cttataatac tgacatattc gaacagtatc 120
tttctcatgt cgttttgcac ttctctagaa ggtcagaccg tcatgtcgct cggagcatat 180
gcaacgagtg cttttagcaa gcactcattg atttccactg ttttggttgt ccagaatgtg 240
gttaacggta agtgctataa ccctgcccgt ctataa 276

<210> 844
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (139)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 844
cacccgtggt gcaaaacaag gtcgactgcc cttgtgaact acagcctgca ctcaacccag 60
ttcatctcta cttacgggtc ctctattaca gcaggccagc catcaagctc agggctaggg 120
ctcaggggtc tgagcgtang ctatggccaa cgcaacggac accgtattgt tgacgacgtg 180
tggaccgatc cctcaaatga gaactcagta gaatcttatt cattaagcat attaaatgcg 240
tggtag 246

<210> 845
<211> 249
<212> DNA
<213> A.fumigatus

<400> 845
cttaacgtgc cggagtggga agtggccagc agaattctcc tctacccggc ctacaacgat 60
actagcccgg gcacttctac tgttgtattc tctatgatag cggagtgtca cgcagatggc 120
atcgttggcg gggctacatt gacctctgat gataacaacg ttgcaaatga ccaactctgc 180
gatgtaattg ggggttttat ctattcatct actccataca caaaaccata tctaaccagt 240
actggttag 249

<210> 846
<211> 435
<212> DNA
<213> A.fumigatus

<400> 846
ccgggggggg agttttcgaa ggcgttgccg gagaagaggg aattcctaca gcgggcggac 60
gtgctcagcg tgcattatgt gctgtctgag cggagtcggg gcatcctcgg ggcggaggac 120
ctggctgcgc tgcggccgga cgccatgatc gtcaatacct cgcggggtcc gctgattgat 180
gagcgggcgc tgctggagac gctgaacgcg ggtcggatac ggggcgcggc gcttgacgtg 240
tttgatccgg agcctttacc tgttgatagt ccgtggcgga cgacggcttg gggggttgat 300
gggcgcagcg aggtgctatt gacgccgcat atggggtatg gggaggagga gctgatcaat 360
gggtggtata aggaggcggc tgagaacttg gagcggtggt tggatggcaa ggagttgcat 420
gtcaggttga attga 435

<210> 847
<211> 423
<212> DNA
<213> A.fumigatus

<400> 847
tacaccaaaa tccatagcag attcaaaatg tccacccaga aagcagtcgt catcaccggt 60
cccaagcagg cggacttggt cactcacccc atccccaagc tgcgagatga ctacatcctc 120
atcaagaccg tcagtgtggc cctgaacccc acagactgga agcacatcga tcgtctggtt 180
gctcctggag tgctagtcgg ctgcgactac gccggtatcg tcgaggaaat gggcaatgac 240
gtccagaagc ccttcaagaa gggcgacaga gtctgcgggt tcgctcacgg atgcaacgcc 300
gtgcagcccg aggaccgcac ctttgctgag tacatcgtcg ccaagggcga cctgccaatc 360
cacatccccg ataatctgag cttccaagaa ggccccacgc tgggttttcc gtatcaccac 420
cat 423

<210> 848
<211> 222
<212> DNA
<213> A.fumigatus

<400> 848
gtgattgtta gtcagcttca gaatgggcaa ttaagagggg ggggaaggtt agaatattct 60
ccggagtatg tcagtatctc cggatggccg gatttaagca gcggaattag tcacccagaa 120
gttgctaaga gctcttgctc taaccaggaa cagactagcc cccgcctagc gcgatatact 180
acatacaaga cagaacgtcc ttaccaacca tcaaaccatt aa 222

<210> 849
<211> 234
<212> DNA
<213> A.fumigatus

<400> 849
cgcgatatac tacatacaag acagaacgtc cttaccaacc atcaaaccat taagtctcta 60
gacttccatt ttcagtatag tgacaatgat agtgtatatt ctctatattt tgcatccgat 120

gggcgctatt cgaccaacat tacagggaca aagcactggc atctgcaaca ttcgctggct 180
atatctgacg cgcccttagt tttctaccat cggggcggca gccatccgcg ctag 234

<210> 850
<211> 1086
<212> DNA
<213> A.fumigatus

<400> 850
agacaggggc aatatggccc tggtgtcggg actccccgcc ctgattgggc gctgagcagc 60
gatgatctca acaagatcgt ccgtagctcc gctgtgaccg gctctggtct cggtacctct 120
cctaacgttg cgggtactcc ggatgaggag gtcgggtaca ttgccacaga tgaatacact 180
caccgtatgg caaccccggc tcccgaatcg cgccgcagct cgcgcttggt cggggagtcc 240
cccttgcgca acacggacgt tcccgcttca gaggttggcg ttgagcgaga ggggcgcaag 300
tctgaagacg ctggtgttat tcatgtcgat gacccgtacc acccccttca tcatccagat 360
ggttttgcac cgaccccagc gcctgaagaa caatcccatg aaatgggcgc gggtcttgaa 420
gatgaagatg aacctattct ggctgcggat gaagtccgcc ctgaatcggc ctatcaacat 480
cctgccgtct ctcccacctt cgatagacgg cctagcgagt atgatggcag gagtcacact 540
cctagcgtta accacagtcg ctcaaatagt cggtcggccc cccaccaagg tggcatgccc 600
actctcgtga gatacaactc tcgcgacgaa cgtgaggaga cacacacgcc tctggatgac 660
gttgaggagt atgagccgct atttcccgag gatgataagg acaagacatc catttccgct 720
gcggaccgct tcaagcagcg tcctgaaatg ctcaagcacc gcttccccag cgaagatatc 780
tgggaagatt ctcccaacag cttgcaactc catgccactg tttccacacc ggacattcct 840
aaacaggaag cgtttgagac gccggaacag gagtcgttcc gccgcagtca cgctcctcac 900
cttgatcctc gccaggtcgc agaacacatc cttgagtccg aagaatcaaa agaaaagaca 960
caaccgcgcc ctgaaatttg taagcagcgg ttccccagtc gagacatctg ggaagatgca 1020
cctgagagcc agacgctcgt gacaacaatc gaggtcttac accgacgggg caggaagaac 1080
acgcgc 1086

<210> 851
<211> 516
<212> DNA
<213> A.fumigatus

<400> 851
ttcttgatgg acatggcaag ccatagtggc cctgaatttg accagttctg cacagagaac 60
tctatcatcc ctctctacat gccaccacac tcctcccatc tcttgcagcc actggatgtc 120
agctgtttct ccccccttgaa gcaagcatat ggacaacatg ttcagaagag tatggtgctt 180
ggcatcaacc acattgacaa ggatgagttc ttaaccatat attcttcaat ttgtacagca 240
gccctgagtg aaagaaacat ccagagtggg ttcagagcta ctggattagt tccatatgat 300
ccagagcagg ttctttcacg tctcaacacc cagatgtgta gaccaacccc cccaggaacc 360
tcccatagtt cccaatcctc ttgggtcacg gccacaccac ataatatacg ccaagtggag 420
ctccaggctg agaaggtcaa gggatatatg cagcagtgca tgcagggtcc atccagtccg 480
tcttcaccgc ggggctggaa gggacgtgcc aggtga 516

<210> 852
<211> 198
<212> DNA
<213> A.fumigatus

<400> 852
atacaatcgc tcgatctgca acaaaagctc aagctttacc atggcaagta tatgtctgtc 60
gcgataacgt cactctgctt cctgttggtt ctgtctgccc tggcttgtgt caccctcccc 120
aactatctat tcagcacggc ttggccccgc cagcaagtaa ccaggctact ccgtcgaatt 180
aactgcggca cagagtag 198

<210> 853
<211> 765
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (683),(699),(701)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 853
cgattccaac acagtatcat gattggtatg ggccagaagg actcgtatgt cggtgatgag 60
gcacagtcga agcgtggtat tctcaccctc agatacccca tcgagcacgg tgttgtcaca 120
aactgggatg acatggagaa gatctggcat cacacattct acaacgagct ccgtgtcgct 180
cctgaggagc accctgtcct cttgaccgaa gcccccatca accccaagtc caaccgtgag 240
aagatgaccc agattgtctt cgagaccttc aacgctcccg ccttctacgt ctccatccag 300
gccgttctct ccctctacgc ttccggtcgt accaccggta tcgtcttgga ctctggtgat 360
ggtgtcactc acgttgtccc catctacgag ggtgtcgctc tcccccacgc catctcccgt 420
gtcgatatgg ccggccgtga tctgacggac tacctgatga agatcctggc cgagcgtggt 480
tacacattct ccactaccgc tgagcgtgaa attgttcgtg acatcaagga gaagctttgc 540
tacgtcgctc tcgactttga gcaggagatt cagactgcct cccagagctc cagcttggag 600
aagtcctatg aacttcccga tggtcaggtc atcaccattg gtaacgagcg tttccgtgct 660
cccgaggctc tcttccaacc tancgttctg ggtctggana ncggcggtat ccacttcaac 720
actttcaact ccatcatgaa atgtgatgtt gacgtccgta aggga 765

<210> 854
<211> 279
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (223),(239),(241)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 854
agatcctggc cgagcgtggt tacacattct ccactaccgc tgagcgtgaa attgttcgtg 60
acatcaagga gaagctttgc tacgtcgctc tcgactttga gcaggagatt cagactgcct 120
cccagagctc cagcttggag aagtcctatg aacttcccga tggtcaggtc atcaccattg 180
gtaacgagcg tttccgtgct cccgaggctc tcttccaacc tancgttctg ggtctggana 240
ncggcggtat ccacttcaac actttcaact ccatcatga 279

<210> 855
<211> 204
<212> DNA
<213> A.fumigatus

<400> 855
cgctgggttc gtagttcggg tatgtgcaag gccggtttcg ccggtgatga tgctccccgt 60
gctgtcttcc gtaagtcaac ccctcacccc ataatgttaa acatccgagt gaacccccctc 120
tgccccatat catcccttga tgtcactgtg cagattgtcg ccaggggaat gtgtcaaccg 180
ttgcccttgc gtccggttgg ataa 204

<210> 856
<211> 873
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (65),(67),(83)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 856
tcccttacgg acgtcaacat cacatttcat gatggagttg aaagtgttga agtggatacc 60
gccgntntcc agacccagaa cgntaggttg gaagagagcc tcgggagcac ggaaacgctc 120
gttaccaatg gtgatgacct gaccatcggg aagttcatag gacttctcca agctggagct 180
ctgggaggca gtctgaatct cctgctcaaa gtcgagagcg acgtagcaaa gcttctcctt 240
gatgtcacga acaatttcac gctcagcggt agtggagaat gtgtaaccac gctcggccag 300
gatcttcatc aggtagtccg tcagatcacg gccggccata tcgacacggg agatggcgtg 360
ggggagagcg acaccctcgt agatggggac aacgtgagtg acaccatcac cagagtccaa 420
gacgataccg gtggtacgac cggaagcgta gagggagaga acggcctgga tggagacgta 480
gaaggcggga gcgttgaagg tctcgaagac aatctgggtc atcttctcac ggttggactt 540
ggggttgatg ggggcttcgg tcaagaggac agggtgctcc tcaggagcga cacggagctc 600
gttgtagaat gtgtgatgcc agatcttctc catgtcatcc cagtttgtga caacaccgtg 660
ctcgatgggg tatctgaggg tgagaatacc acgcttcgac tgtgcctcat caccgacata 720
cgagtccttc tggcccatac caatcatgat actgtgttgg aatcgtcagc gaccatgatt 780
cgagctagcg taacagctca ggatgaggaa agggggggaaa atttacccat ggtgacgggg 840
gcgaccgaca atggaggcta tctcgcaagt tag 873

<210> 857
<211> 471
<212> DNA
<213> A.fumigatus

<400> 857
ttcgtccttc gtctcttcct tgataatctt ctctacagat acctgaccgt cagccttgcg 60
tccgtaccaa ccgccgagat cctcgcccgc gccggccttg acgatactgg tgatgatctc 120
aaaggcgacc tgtgccgctg ccagagcggt ggtctcgccc ttgttatcgt agctagggga 180
gacctcgacg atatccgcgc cgacaatgtt cagcttctca atgccgcgca gaatgcggat 240
gaactcgcgg gtggtccagc cgcccggctc cggggtgcct gttcccggcg cggtggaggg 300
gtccagcaca tcgatgtcga cggacaagta aacgggctgt tccgggtcga ggccaatgcg 360
ttcgatgatc ttgtccacga tgcccatggg gcccagctcg tcgatatcat cggcgtggat 420
gcgcatggtc ttcaccacgg ggctggaagg atcacgtctc atcggggctg a 471

<210> 858
<211> 492
<212> DNA
<213> A.fumigatus

<400> 858
atgagaccct taccttcagc cccgatgaga cgtgatcctt ccagccccgt ggtgaagacc 60
atgcgcatcc acgccgatga tatcgacgag ctgggcccca tgggcatcgt ggacaagatc 120
atcgaacgca ttggcctcga cccggaacag cccgtttact tgtccgtcga catcgatgtg 180
ctggaccccct ccaccgcgcc gggaacaggc accccggagc cgggcggctg gaccacccgc 240
gagttcatcc gcattctgcg cggcattgag aagctgaaca ttgtcggcgc ggatatcgtc 300
gaggtctccc ctagctacga taacaagggc gagaccaccg ctctggcagc ggcacaggtc 360
gcctttgaga tcatcaccag tatcgtcaag gccggcgcgg gcgaggatct cggcggttgg 420
tacggacgca aggctgacgg tcaggtatct gtagagaaga ttatcaagga agagacgaag 480
gacgaattat ag 492

<210> 859

<211> 1215
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (247),(298)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 859
tttcagagaa ggatgaaatt ttcaatactt ccccctgcca agggcagtcc ccacttgtca 60
catcccagca aggtcacact ggtcgacgtg gagaaggaga ttgccaaatt cttcgccgag 120
aaaaatggct cgtcgaagga agttgacctc gaagcgcagg gcggtgcccg caagaagaga 180
cacgccttca tctcgtccat acgatatacc gctctcgaca tctaccggcg tctcttctcc 240
ctagttntcc tcgccaacct ggctgtcttc attgctgtca tgacggcaga ccgaaagnta 300
ctggcccttg tgaacgccac ggcggccaac gtacttgcct gtggcctcgc ccggcagccg 360
ctggtggtca atgccatttt tgtcattgtc tgctcgattc cacggtccgc gccgttgcgg 420
ctgcgccgcg tcgcggccaa agtgtaccac tatggcgggg tccacagtgg gtgcggcatc 480
gcttccttcc tctggtatgc aggcttcgtg ggcctgatgt caaaggagta ctggtcacca 540
gcggctggag cgggcaacgc cgccttctca atcctgcctg tggtcctctc aaacatcatc 600
ctagccttac tgctcgccat catcctcgtc gcccacccgg ccttccgcat gaagaagcac 660
gactggttcg agcttacgca tcgcttctcg gcttgggtcg tggtggtcct cttcgtcatc 720
ctcctgctcg tcttttccgg tgaggccagt cgcgctgcca accaacctct ggggaccttc 780
cttctccatc tcccagcttt ctggtttctc gtgattaccg tcctcgctat catccaccca 840
tggcttctcc tccgcaaagt ttccgtcgtt ggggaaaccc tttccccgca cgcggtcagg 900
ctgcacatga accacacaag caccaccttc ggcaagggca tccagctagc cacgcacccc 960
ttgcaagact ggcacggctt tgccaccttc cctgatcccg acggagcgag cttctcgtgc 1020
ctggtctcaa gagcaggcga ctggaccagt gcccgcataa aatgcccccc gaaacacctc 1080
tggaaacgcg gtgttctcat ctacggcttc gcttacgcca tgcgggtctt caagcgcatt 1140
atcatcgtca caacgggctc aggcatcggt ccctgcctgt cttcaccacg ggcaggaagc 1200
atccaagctg acatt 1215

<210> 860
<211> 576
<212> DNA
<213> A.fumigatus

<400> 860
gcggttgaga aatataatga tgcttccgat caagggtccg aaacgcggag cccgcgttta 60
gttggccatc ccgatgctgc ccatagctct ccctgggagt tggacccaga cgccgacgat 120
gcgctatggg agatgtacaa ggatattgcc agaaagtttg aagataatga ggatgaagta 180
agaccattgg tacagcctga gaaaccggag gtctattttg atgaagacga tgaaatcccc 240
gatgaagaca acaagggacc gaaattatct cctaagaaga gaaaagaatt gacgaagctt 300
tctgtcgcag aactcaaggc aatggttcga aaaccggaaa tcgtcgaatg gacagacacg 360
tcagcccctg aacccaaagc ttcctcgtcc atatcaaggc tcacaaaaaa tgttgttccc 420
tgtgcctgtt tccatgggtt cttaaaaaag agaatttcct gttcttccaa aaacgagggg 480
gtggaccaaa ccccctttg gcccctgcca aaaattcata cccggaagaa cgggtatctc 540
aaaaaaatgc caaaatgccg gctttgggag aaaaca 576

<210> 861
<211> 189
<212> DNA
<213> A.fumigatus

<400> 861
aaaatagtgc tgttatgcaa ccatggatgt tctcccgcta gagatcttcc atggatcatg 60

tggcatgcag atacatggat acttcaggta cctagttcaa tcgtctacta tctatctaca 120
actaccttag gcacttcgca acacaatttc ttcctctcga ccactcaaat catcgatgat 180
actacttga 189

<210> 862
<211> 861
<212> DNA
<213> A.fumigatus

<400> 862
acgccatacg cggtaccttc cggccccggg cgtgaagacg caagatgcat ggttcgtgat 60
cccgctttcc ctgaggccgc aacagattgg ctaatcctct ctactccaga tggtcactac 120
ctgaatttgc ctgttatgaa cgagacgggc gagattgtcg gcatggtgga tgtgctcaag 180
ctcacatatg ccactcttga acaggttagt caaagttttt tccgaaaatc tggactttca 240
actgacccga gatgcaagat taactccatg caatcgcatg acgatgaagg ccccgcatgg 300
aacaaattct ggttgtcaat ggatcatgaa tccgattcaa tggtgtctgg cagccaccaa 360
gcgccgaatc gatccgttct cagtccggaa tcaccgagac atggtgtcga cagtgtgctc 420
cctaacgaat ccgcgtccca ccacggcgga gatgagctct cggaatatca cgaccatcac 480
cataaccacg acgagaacac tccgttcccc ttcaaattta aggctcctag cggccgtgtg 540
cacagagtca atgttgtcac ttccgctggg gtcgctgact tagtcgccca agtcacagcc 600
aagttaggca acgagctgga ggccgtcgga ggtggagcca ccgtcgagga gggcaaactc 660
agcaatactg gttacgcctt gagctacttg gacaatgagg gtgacactgt ttctatcact 720
accgatcagg atctggcaga tgccgtcagt ctcgcccgtc gctcgcaccg tgataaggtg 780
gatcttttg tgcacgaccc ctctcagccc ccaattccgg caacgttgga tccccagcct 840
gctccggcca aggtcgtcga a 861

<210> 863
<211> 684
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (359)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 863
atatctcctt atttgacgga tctacccccc tcgcttccct tcctttctac ctcgaaattt 60
tcaatacaag accttgatcg catcgaggag ccaacaatgg atattcatcg ctgccgtttc 120
gtgccttaca acccccaggc gatcaatgca ctctcattct ctcatcctcc ctctgcggaa 180
cttgccggtc gaggtgtccc taccctccgg cttgccatcg gccgcgcaaa tggcgatatc 240
gagatctgga acccaatgcg cggcgcctgg ttacaggaga cggtcatgcg cggaggaaaa 300
gataggagta tagaagggct tgcatggact ctcgacccgc cagaggctgg acctgacgng 360
accaagattc cgggaaaact gcgcttgttc agtattggat actcgaccgc ggtaacggag 420
tggaatctgg agcagggacg ccccatgcgt cactcgagtg gaaactacgg tgagatttgg 480
tgtatagcag cacaaccaag atggcaggct acgaagcgcg gcaaggatgg aaagcctctg 540
ccgcccgcgg agggagagta caccgggcag catttcgcgg ctggatgtgc agatggctca 600
atcgtgatct tgtctactgc cgacggcgac ttgaaatttc tgacggctga tgcgtccatc 660
cacaaagaga gccagagtcc ttag 684

<210> 864
<211> 189
<212> DNA
<213> A.fumigatus

<400> 864

tgctcaaagg ccgttggatc gcagaaaggt ggatccactg gcgatgcctt catttttgtc 60
gctctttttt ccatcccttt tcaggtagat tattacgtag gtacctctga cactgaagat 120
attgtcatga gacagaagga gacaataata ctatgtctat tagaaacaag atatcatatc 180
catgtatga 189

<210> 865
<211> 186
<212> DNA
<213> A.fumigatus

<400> 865
tttggcaagc acgttggacg aagaagaatg atgaagggaa agaaggagaa gaaaagagaa 60
caaaagactg gatgggtgga attgattgga aaggagcctt caaaagacaa ggcagtggga 120
aaggaaagtg cctttaggga ggaccagaca agaaaggagg cgtggcccca gcaccgggtc 180
cggtaa 186

<210> 866
<211> 195
<212> DNA
<213> A.fumigatus

<400> 866
ttgggaaagc gagagagtct catcgcggat aggaagatcg actgtgaatt caatgtgacc 60
aggatagtct gggctaatct cagatgttgg aagtttgtcc gcttgtggtg tttcaagctc 120
gatgacattc gcaaccgtcg ttttgagttt gagcagctta acgataacac ggagtctcgt 180
ctgaagcatg tgtga 195

<210> 867
<211> 834
<212> DNA
<213> A.fumigatus

<400> 867
ggtgccccaa aatgtggcag ttttcggtac atgatccggg ttgtcgtgaa caacaagccc 60
gacggggaga gcgacgcgcg caagtccctt gcctcggcgg gaaagaaagt gcgcatcatc 120
cctaccgtcg acgaggaacc gccactcaac gtcttcgaag gcgatgacgt ctactgcacc 180
cgcaaggaga aggacgtcaa gcgcggtctc atgcgcggca agctgggccg cttagttgtg 240
gccgcctcgc agccaaagcc aatccaactg actgcgcccc agtacgagac aaaggagtct 300
gtcgggacag tggcaaccat tcatctgcgc ttcgatcctg tcggcaacga agcgccgccc 360
cggctcggca gcgtctggag tcgactgcgc gtatcgacat actacgccgc ggtcccctgg 420
gaagactacc cctccgccct gtcggcgacc atgtgggcac aggttgggaa gagtgtgtac 480
actgagaccg tccctctgtc taccctctgc gtcgcctcgg cccagtggac taaacactcg 540
gcctcgagcc cggtccgccg gagctccctg gagtcgactt cctcgtccga atcgctcacc 600
ggaccctctg cctctttctc gaggagcacc tactataccg cctcggtggt ggtgccggtc 660
tccctacccg cgtccaaggc ctttgttccg accttctact cctgcctcat ctcccgcatg 720
tacactctcg acctgagtat ctcgtaccac actcccaatg ccaatatcct gactcccacc 780
gcctcccttc gcctgccact tcagctcacc tcccagccca aggcagatac gtct 834

<210> 868
<211> 465
<212> DNA
<213> A.fumigatus

<400> 868
ctgcgcccca gtacgagaca aaggagtctg tcgggacagt ggcaaccatt catctgcgct 60
tcgatcctgt cggcaacgaa gcgccgcccc ggctcggcag cgtctggagt cgactgcgcg 120

tatcgacata ctacgccgcg gtcccctggg aagactaccc ctccgccctg tcggcgacca 180
tgtgggcaca ggttgggaag agtgtgtaca ctgagaccgt ccctctgtct accctctgcg 240
tcgcctcggc ccagtggact aaacactcgg cctcgagccc ggtccgccgg agctccctgg 300
agtcgacttc ctcgtccgaa tcgctcaccg gaccctctgc ctctttctcg aggagcacct 360
actataccgc ctcggtggtg gtgccggtct ccctacccgc gtccaaggcc tttgttccga 420
ccttctactc ctgcctcatc tcccgcatgt acactctcga cctga 465

<210> 869
<211> 396
<212> DNA
<213> A.fumigatus

<400> 869
ttgtttattc tgagacaaag tacagagatg ctgacaggag caagttacaa gcatggagtg 60
attcatcccc taattgagga ttccctttg cgatcggtcc gtaacgagat caaagaacac 120
ctcgacttca ctgagaagga aaccgatatc tacaagatct ttcagtctgg tgatctggcg 180
aatctggacg gcttggacga tgcttctttg tcaaagctac cttccttgct gaagctgcgt 240
gatgccctgt actctgcccg attccgggaa tacttgtctg ccgtgacggg ctctggcaaa 300
cttagcgggc gcaagaccga tatggccatc aatatctaca acgaaggatg ccacctttg 360
tgccatgacg acgtgatcgg aagccgacgt ctgagc 396

<210> 870
<211> 231
<212> DNA
<213> A.fumigatus

<400> 870
gaaaggttat ctttgtccat tctccataat tcttcgataa aagtatcgat atatacttgc 60
aaaatgaagc ggaagaccga tacaagagag gctctgaatg gcaatggcca gccggagtcc 120
aagaagcgcg cactgtcaaa cgaagaagtg gctgcgcgct tccgtgatgg cctatttgag 180
ccctcggagc agcagaagta taccaaagca tatgcccagt ctagcccgta g 231

<210> 871
<211> 591
<212> DNA
<213> A.fumigatus

<400> 871
gctcccggtc taatattaca agcgaatgaa aacccaccct caggacagca atcccagcag 60
atccgctccg aggaggatga ccgttccatt cgtaagctac gtgaggtctt tccgccggtg 120
gagaccagcc tctctcaatt gccagaagcg aagaaactct taattctcca ctcattgcta 180
ctcctagttt tgagtcttga acactataac gcctggtctc gggtcctgat gctgttcgtg 240
acgtccagct tagggctgga cgtgaaatta ctaaacgaag atgaagtcaa agtggcgagg 300
gggttgcttg acactgctct ggcactgtcg tctaacgccc caaggcagga tgagagtcga 360
agtcgcgatt catcccgaaa atggaaggtt gggatcgcgt cagttgcggg tgctgccctg 420
atcgggatca ctggtggact ggctgcgccc cttgttgcag ctgggcttgg tactgtcatg 480
ggcggccttg ggcttggcgc caccgccgca gcagggtatc tcggagctct cgctggaagt 540
ggtgttgtca tcagcggact tttcggtgct tatggtgggc ggatgaccgg t 591

<210> 872
<211> 192
<212> DNA
<213> A.fumigatus

<400> 872
accggtcatc cgcccaccat aagcaccgaa aagtccgctg atgacaacac cacttccagc 60

gagagctccg agataccctg ctgcggcggt ggcgccaagc ccaaggccgc ccatgacagt 120
accaagccca gctgcaacaa ggggcgcagc cagtccacca gtgatcccga tcagggcagc 180
acccgcaact ga 192

<210> 873
<211> 216
<212> DNA
<213> A.fumigatus

<400> 873
agaatgtgtc aagatcatgc gcgaaggtgg caatctttcc ttggccgcgt tgggctttcg 60
aggccgctgt tcaaaaagat cctcaacacg ttcaaaccct ggaccatgct tggatccgcc 120
acagcggcaa atgagaagga gcttcctgct tttcgtgccc tggaacaggc gctggagatc 180
gatcccaaca atttggacgc ccttatgggg gctggc 216

<210> 874
<211> 1053
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (743)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 874
atgatggacg agtttgccgc acaacaacca ggccagattc ccgggacagc accacaacca 60
tttgcgatgg aacaactaag gcgcgagcta gatcacttcc agaccactcc gccgagaacg 120
gggtctcccg ggtgggcggc tgaatttgat actggcgagc atgcccggat ggaggctgcg 180
tttgccggcc ctacaggacc gctaatgaac aacgggtccg cattcacacc tgcagagttt 240
gctcgcttcc aacaacagag tcgggtcggc atgccacaaa cgtcaagccc agccacgtcc 300
gtgtcgccgg tgatggccgg ttatcagcgt cctatgggca tggggtacat gggtatggga 360
ggaatgggta tgatgcgccc atcctataca cccatgggca tgcaacaaca gcccgcggag 420
gccgctactc aggacaaggg caagggtcgg atggtcgagc tcgatgatga gaactgggag 480
gcacaatttg ccgagatgga gacggcgggt aaccagacgc tggacgatga ggccaacgcg 540
gcgatagagg cggagctgaa tgatctcgat aggtcagtcc ccactactga taccggtaat 600
gctcaagatt acgatgcttt tgagagcgta tggcaaagag tccaagctga aacggcgaca 660
agtagaaaac tggcagatga agatgcttct ttcgaaatca acgacaacct gcacatggga 720
gaccttggcg agtgggacgg ctntgacaat ctccaaacgc gtttacgaga tcctcagctg 780
ggcgattaca tgttcgaaga ggaaaacgtg ttccggaatg tggccaatcc ctttgaagaa 840
tgtgtcaaga tcatgcgcga aggtggcaat ctttccttgg ccgcgttggg ctttcgaggc 900
cgctgttcaa aaagatcctc aacacgttca aaccctggac catgcttgga tccgccacag 960
cggcaaatga gaaggagctt cctgcttttc gtgccctgga acaggcgctg gagatcgatc 1020
ccaacaattt ggacgccctt atgggggctg gct 1053

<210> 875
<211> 210
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (76)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 875

attggataca gaacaccctc gtcccccatg cacacaatgt ggcaagctgg ggatccagtg 60
tctgttcaca acaaancacc catggtcaag gaactcaaat ggtatgcatt ttacattgca 120
ttggagaagt accagcaatc tcattatagt ttagattcgt cgctgaatac cgctccaatt 180
cagagagtca cccccaatcc agatgaataa 210

<210> 876
<211> 798
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (621)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 876
gcggtttttg ctggtctgaa cgtgaatccc gactcatgga gctgcatcat gcagaggcaa 60
cgaaagaatc ttatgccggc tttctcatac cgccacatca agaacctcta ccccattttc 120
tggtccaaga gcatcgaaat ggtcaagctg atcgaaaaag accttcatag ccgagcagat 180
gccaaagaca atattgttcg cgtgagcgaa tgggccagca gagcaacgct agatatcatc 240
ggtgttgccg gaatggacca tgactttggt tctctccacg attctaacaa cgaactgacc 300
aagcactacc ggcggctcct cgaagagccg ccgctcgcaa tgcgtattat ctttgtcttg 360
ggcgtcctat ttgggagcgt cggagtcgtg gaaagcctcc cactgaagcg aaaccgcgag 420
attcgcgaaa gctctctcta catccgcgac gtggcccgcc aaatgatccg caaaaaggaa 480
gcaaagatga agagccaagc atccgcagaa acggggacgg acatcgtctc cgtggccctg 540
gaaagcggcg ccttcaccga agaagaactc gtagatcaaa tgatgacctt cctcgccgcc 600
gggccacaaa ccactccaca ncccctcccat tgttattgta ccccctgtgc caacttccga 660
acgtgcaaac gccctcccgc aaggaattcg ttaccacttt ctcccatctc gccgagagac 720
ccgaaaccct cttccgaagc caaattcaat tccttccttt actccaaccc ttctggaaag 780
aaagttttcg gttccccc 798

<210> 877
<211> 807
<212> DNA
<213> A.fumigatus

<400> 877
gcgcaaagca gatggcccca cgagttcagg ggtgaagcca tctataccgc agaggttgat 60
gtccattccc ccaagctcac ggttggagat acccttttatt tcgcggctcg tgcccgaaca 120
ccacgacaca tttttggggg ggtgaatgcg acccagtatg ccggccacat gcgagacgtg 180
atcatggcca tgtttggtat cagccatacg aagaacacaa ttgtcggaaa cgacttcatc 240
cgcggtgtat ctggtggaga gcgcaagcgg gttagcattg cggaagcttg tctcagcaat 300
gcaccgctgc aatgttggga caattcgact cgtggtcttg atagtgcgaa tgccattgag 360
ttctgcaaaa ccttacgcat gcaggcagat atcaatggca ccacagcctg tgtctctcta 420
tatcaagctc cccaggctgc gtacgactat ttcgataagg tcctggtcct atacgaaggt 480
cgcgagatct actttggtcc cacatccatg gcgaagcact acttccttca gatgggcttc 540
gtatgccctg accggcaaac cgatgccgac tttctcacat ctatgactag ccatcttgag 600
cgtgttgttc agcctggtta tgaagatcgc gtacctcgaa cacctgatga gttcgctgca 660
cgatggaagg cctcaccaca gcgagcacag ctgatgcaac acatcaagag ttataatgca 720
aagttcgcac tggatgggga atacctggat aagtttaagc aatctcggcg agcccttaac 780
cgccggactg gacagaaatg cgtcgaa 807

<210> 878
<211> 282
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (30)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 878
tatttccccg attatgaggg cggtgccgan tacgccgcgg cctgtgatta catcctgaac 60
cgcttcgtat cactcaacca ggccgagcaa aagcagatct acactcactt cacatgcgcc 120
accgatacta cacaaatccg tttcgtcatg gcggctgtaa atggtgcgtc ttccgaggac 180
ccttgtatac tctttgatta ccgaccacta acgtcttcca gatatcatta tccaagagaa 240
cctcagactc tgtggtctga tctaatgagc cattatactt ga 282

<210> 879
<211> 213
<212> DNA
<213> A.fumigatus

<400> 879
ctcaacaagc gaacgctcct agagtacatc ttgatcaatg tcgtctctac ttcgcttccc 60
caatttgggt tgggagagga gggggtttgg tgcaggaaag ggaaggaggg atccaagcaa 120
gcgaccccta agatgtatct gtatctgaac cctcgtcgaa cgcaagatgt tagggtatgg 180
gagggacatc taatcgttta tgtcatacag taa 213

<210> 880
<211> 435
<212> DNA
<213> A.fumigatus

<400> 880
acttgcagga atttcgcgac tctggcgcaa cgaggttatt acaacaacat gattttccac 60
cgcattatcc ccaacttcat ggtacagacc ggcgatccta ctggtaccgg caggggaggc 120
agttcaatct acggcgagaa gtttgaggat gagattcatc cgggtctcaa gcacacagga 180
gctggtgtgt tgagcatggc gaacagtgga cccaacacca acggcagcca gttcttcatc 240
acccttgcgc ctacaccgtg gttagatgga aagcacacaa ttttcggtcg agtgaaacgt 300
ggaatgcgag taatacagcg aatgggactc gtcaagacga attctgagga taggcctgtc 360
gacgaggtca acattattcg cgccaaagtc gtgaagaagg cgtcttcacg acggtgcagg 420
aagggtccgt gcact 435

<210> 881
<211> 603
<212> DNA
<213> A.fumigatus

<400> 881
agacgtccat tgatgttcaa ttcaagcaaa tccctatttg cttattgtct cccgctaata 60
attgattgta ttctaggttt ccggcaccag ggtcaaattc catcgccatt tgcctgtatc 120
actaagatat tgggaaccac tcccaagcat ccaattcaca caatggcgac tttcagtgct 180
gtttcgagga ggccattcat agcattgccg tttctaatac catcctgtga gccggtggct 240
ctggagttgc gcagaaatca gtcttcatac agacgtacga aacaacgtct tcgcgttaag 300
ccggatgcct cttttggctt ctcttcggat caaacccagg atcacatcat cttcaatcca 360
ccttcgagcg ctccgtctgt cttccataca ccgacaaaat ttcttccccc tgatgatgct 420
cggaggaccc ttcgcaccga cgtgtcaatg aaaagtgatc agaatcccga aaaccttcct 480
cctgtattca attcgccaac ggaaaaaaag tatcacctga ctccatctga catagaggaa 540
atccgcaaac tcagactcag cgaccctatg acttggagca ggtggaaatt agccaagcga 600
ttt 603

<210> 882
<211> 315
<212> DNA
<213> A.fumigatus

<400> 882
attgtccaga ttcggatcgc taacccctta ttcttacagc gtagcgccgc tctcaagatc 60
gactgggtca aggtgaccag ctctctcggc ctccgcggcc agaccgctgc ctctctccag 120
gccttcaaga agcgtaatga cgatgcgcgc cgcaaggtcc agctcctgtc cgagcagccc 180
cagaccgtca acttcgacca ctaccgcagc atcctgaaga accaggctat cgttgacgag 240
atcgagggtt atgtcaagaa cttcaagccc gctacctacg atgtcaaccg tcacctgaag 300
gctatggctg cctaa 315

<210> 883
<211> 276
<212> DNA
<213> A.fumigatus

<400> 883
aacgctatcg cggatccttc ggccctagtg gtagaaaacg aatggggtga taccgtcgga 60
agctggaaga atgaaggcgc accggatcta catctcttga ccaaggagga agtggagctc 120
tgcaatgtac tacacatcca acccaagcca tacctagtga tcaaagagac gctgttgaaa 180
gaggcaatga agcaaggggg gagtcttaag aagaaggatg cacgggctat ttgcaaggta 240
ggatctacat cgttgttgtt ccgctccgtt ttctaa 276

<210> 884
<211> 189
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (91)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 884
tatccaggaa tccaggccaa atgcctcatt ctgtccggcc aatataatgg gcttaaacca 60
tatttaggct ggaatgccct cccattccta nccttcgcaa ttagtatcct ggtatcccaa 120
acaaaaatgc tggtccgaaa aaaaaatggc actccgccgg gaattcgaaa cccggggacc 180
tccccctag 189

<210> 885
<211> 267
<212> DNA
<213> A.fumigatus

<400> 885
tccgacccgc agtctgtaac ccccgtggtg aatacttatc tctgcttctg gcactcagtt 60
ggaaattccg tcgacctgtc tgtgtcgcgc gacccgatgt cgacactcct gtgtatggga 120
ttcgaaatga tctcgactgc aagggctgag gtaaccggtc aagaatattt agaatattat 180
cttgaaatga agtacattga cttccaaccg ttgcagaccg caatgcagcc gcaatgggta 240
tgcggcgaac aagcgcccgc attctag 267

<210> 886
<211> 222

<212> DNA
<213> A.fumigatus

<400> 886
aaacaactga cgaatacgag gatatcccac tctggttatg cttacattct ctcttatatt 60
cgtttcattc cctctgttga ctcgactgca tcctttggaa aactactgaa aaagaggaaa 120
tcaactgaaa ccatggccac ttcataccaa cctccgtctc aagagggcca ttatcctcgt 180
aagtactatt tcaaagccga accagaccaa tatacgtgct aa 222

<210> 887
<211> 363
<212> DNA
<213> A.fumigatus

<400> 887
tcgccgtcga tttttgcccg gcctgcaagt gcactcagta tggtctccag ttccgcaggc 60
ggctcttctg tctctgcagt ttcaaacgaa ttctcggcct ctacttcggc catatcgtcc 120
accaggtcat catccgggcg ggaaaaaccg gccaagctgg caatccagtc gccatcgggc 180
aagatcctcc ggctcactcg caaggcagat catatgatca gcagcgattc ttcggatccc 240
accgctgatg gcagtgtgtg ggagacggtg atcaagatcg gggagcgcgg gacctggcgc 300
ggactcgtcc tcgccgaccg tgttgcccgg tggtgtgttt tctgtgaatg ggaatgtttc 360
tag 363

<210> 888
<211> 300
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (269),(270)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 888
cacttctgtt gggtatgcgc gcatggctgg gaagccttgc gccgaggatg ggcccatggt 60
gaagttgttg aaagatgctg gtatggctgc aaacctttt ttcctctgtt gcgtatcctg 120
actcgtacag gcgctgttcc gtatgccaag actgcactgc cggtgacact tttgtcattt 180
gagtcctaca atggtctttg gggtcggtgc ttgaacccac atgtgcctga gtactcaccc 240
ggtggttcga ctggaggcga aggtgctcnn tgcttgccct tggggcccgg gggggtttcc 300

<210> 889
<211> 456
<212> DNA
<213> A.fumigatus

<400> 889
cgaatcaaca gggaccagaa gcaaaaggaa cgggccgccc gtttcgcttc cctctcccca 60
gactaccaca ctgcgttcac ggcgtcagat aagagtatta tcaacacacc aattgaacag 120
ctcgttgagt cagtccacaa gtcccacctt tcaccaaccg atgttctccg cacgtatggc 180
aaggtagcag tgaaggcgca ggaacgcaca aactgcgtga ctgagctgct gctgcccgaa 240
gcggagacat ggcttcagaa ggaagtcaat ctcaaaggtc cactggccgg gatccccgtc 300
tccctcaagg attcggtgca ggtcaagggt tttgacactt ctgttgggta tgcgcgcatg 360
gctgggaagc cttgcgccga ggatgggccc atggtgaagt tgttgaaaga tgctggtatg 420
gctgcaaacc tttttttcct ctgttgcgta tcctga 456

<210> 890

<211> 762
<212> DNA
<213> A.fumigatus

<400> 890
cagcttgctc agctccccag aaattcaacc gaaggccttg ggcggatccg ccacagctca 60
gacttgacga agagactcgc tgagctcgag acagagtacc acaagagcta tacccggcct 120
gcgaattctg ggcaggtagc cgtacgacca tgtcttcatc ttcaggaggg cttcgttgca 180
cgatccatca acagtgagga agaccagctg tacgtcaacc atattgctct ctcactcggg 240
cccggtcttg attctgggcg attgaggttt gcatggcaag atactgctga caatagtgag 300
atcctccgga cttgctttgc tcctttggag aaggagattg ttcaagttgt cctcacgcct 360
ggtggtgcaa tttcatggac ggaagacgaa tacgacagcc tggaggactg catcaaagag 420
caaagagcca ggcagcaaga gatttctcgc ggtatcatta aaaatatgac agatgtccct 480
ccagtacgat ttcatctagc aacattgtca tcgaagcgtc cgttagtttt gttcatcgca 540
attcatcacg ctctctatga cggcgaatca ttctcgatgc tcctggagga cgttgcagcg 600
cgttacgtag gagagcctgt gacccggcga ggttcgccag ccgctttcat cgaccacgta 660
tatggtcaga acctggagaa ggcccaacaa cactgggtga acgcgctgag tgactgtcag 720
cctacaactc ttccgtggtt tcaccacggg ggtcgaaggt cc 762

<210> 891
<211> 555
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (532)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 891
atgtacagga ccggtgacat tggtcgcttg atgagcgatg attctgtgga atatgttggt 60
cgaggcgacg accaaaccaa gatccgcggg cagcgtttgg aacttgggga ggtctcagag 120
gttatccgtt cctcttctcc tgttcaaatc ggcgtggtca ccacggttac caaacaccct 180
ggtctcgcga gaccgcagct catctcgttc attgcccgat ctggtgacaa gagccgtcag 240
cgcatcggag atgcaaccat aattcactct gacctggcga cgttgggcaa ggaacttcgg 300
gacgcctgcc agcggaagct gccagcctac atggttcccg agatcattct gcctatcacc 360
tttatcccac tggccccgat gtcaggaaag gcaaatatca aggagctgca cagcatgttc 420
tcaagcttgc ctctcgcgag cattctacaa ggaaacaatc caggaaccag cgatactgct 480
gcttttactg atcggccttt gtcttccgac aaaaaagctg tagtcagcga anatttgcgc 540
tgtgatcaag gttga 555

<210> 892
<211> 954
<212> DNA
<213> A.fumigatus

<400> 892
ttgagcgtgt ccggccagcc gcctggtttg acgggcgatg tgcgcttgac ggagggtaaa 60
atccgaatgg gtgcaactcg atcgttctgc ccgcagtacg cctggatcca gaatgtgtca 120
gtgcgagaga atatcctctt tggaagtgat tacgacgaag aattttacga ccgcgtaatt 180
gatgcatgcg ctctacgagc cgatctagat attttcccaa acggagatca gacggagatt 240
ggggaacgag gcatcacagt ctctggaggc caaaagcagc gaatcaatat cgccagagcg 300
gtctactcca aagccgatat cattctcatg gatgaccctc tttcagccgt tgatgcccat 360
gtcggacgac atatcatgga caaagccatc tgcggtcttc tcaaggataa atgccgtgtc 420
ttggcaaccc accagcttca tgtccttagc cggtgcgacc gaatcattgt gatgaatgaa 480
ggccgtattg acgctattgg taccttttgac gatcttgtac ggacaaatga acacttcagg 540

gaattgatgt caagcacttc gcaacaggaa aagcagtcgg atgatgatga tgtcgacaaa 600
aagtctaacg aaggcgaacc tttgaaagac cagattgaca aggctagacc agcagccgcg 660
ttgatgtcaa aggaagagct agcgacgggg tcagttgggt ggccagtctg gaaagcttat 720
attaccgcct ctggatcttt ctttctcaat ttcattgctt ttctcgtgct gttggcctgt 780
ctcaacggtg gtctaattat gaccggcctg tgggtctcgt attggacgtc cgacaagttt 840
ccaaacctga ccgctggcca gtatatggga atatatgcgg gaatctgtgc agcgcaagct 900
ttggccctgt atggcttcgc actacatgta acccattgcc gcagcggtct ctag 954

<210> 893
<211> 207
<212> DNA
<213> A.fumigatus

<400> 893
catcaattcc ctgaagtgtt catttgtccg tacaagatcg tcaaaggtac caatagcgtc 60
aatacggcct tcattcatca caatgattcg gtcgcaccgg ctaaggacat gaagctggtg 120
ggttgccaag acacggcatt tatccttgag aagaccgcag atggctttgt ccatgatatg 180
tcgtccgaca tgggcatcaa cggctga 207

<210> 894
<211> 738
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (715)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 894
cactcggcta gacgacatgg tataccacgg ccaaactcaa catactcgtt cgtctcggac 60
atgggaggcg atggtcggaa cttgtcgccc ggtgcttccc cttaccttca tgcacgcacc 120
tcaccaagga actcctcgtc ccccgatgtc cgtccacttt cttttgtcga tctcctcaac 180
acaccctatc ctcagccagg accgaccccc gggcaactgg acaactccca tctaaaatcc 240
tgggtgggca acaatgcctc cttactcagc cacaaacaga cctttgatat gtatctcgcc 300
aatgtgaaga aaacggacga ccccgcagta cagtacgagt tcgccgtgtt catggtcaac 360
gcgatgttgg aaatgccgcc ggacgatcat gaagcacgca aggacgcagt gtatggcgga 420
aaagcggcgg ggatcactcg tcatagtctc ctcaaggaag ccaagtcgat ctttcaacgt 480
ctggctgacc gtagctatcc gtttgcgcag tactacttgg cagatggata tgcatccgga 540
ctcttcagca agggcaagga agattatgac cgagcattcc ccctgtttct agccgcgagc 600
aagcatggtc acgtcgaggc atgctatcgt accgccctct gttatgaatt cggttgggga 660
accagggtag aagcggctag agcacaacag ttctaccgcc aagctgactc gcctnttcac 720
cgcgaaatgg cgatcaag 738

<210> 895
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (28)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 895
agacctcaga acatagctac aattctcnta gcctcagaga acggtggagg tgagctccac 60

ccacaagact ttaggccttc cgacgtcgct attctttcca ctttcgccag tagcccgttt 120
gagggatctg atcctttccc ggcacttggc cacgaggtcc aaaagtttag atccctgggg 180
atatgctctt tgttcttttg a 201

<210> 896
<211> 249
<212> DNA
<213> A.fumigatus

<400> 896
ctacccaaac acaaaccgtt tccagttgtc tgccaatcgt tggacccccc cctgcaaaga 60
ccagccacgg agctcacata tctgccgagc aacttcctcg agcaagtcgt ccatctgctg 120
tccagcagtg tgaaggtcac tctcaataag cactctgtcc tccggcaaag ctttgacaac 180
tgcaatgact ttctgagacg atggcccgct gaaattgatg acattggaaa aggagaagta 240
cacgtctga 249

<210> 897
<211> 777
<212> DNA
<213> A.fumigatus

<400> 897
ttctcgcaat tcatctccca aaacacggaa cggctactat ccttttccca atgctctggt 60
tggcaaggtt cggccttgat cgtgcttcca gacttccaaa gggcctggac ccagcagaag 120
gttgagaatc gtaatgcgca tataacaccc ggatctcgtg aaggccggaa actctcacct 180
tacagggtgc atatggaaca ccaaaaggct attctgaagg cccagcttcg cctcgccgga 240
gaacttcgac gaccagtctc agtacacagt gtccaagcac atggagcggt gttcgatgtt 300
ttcaaggagc tatggtccgg ccatgagcgc agagtaccat cgcgacggga gagacgaaga 360
cgtcttagcg ttgaaggggc tcacgcagag agcgacgcgg aagacgagca agtgcaaaag 420
tcactaaagc gcgaaggttc acctctccca tacccacccc ggatctgtat gcattcgtat 480
tcaggtcctg tggagcaatt gaagcaattt ctgaaccctt caaatccctc agacgtgtac 540
ttctcctttt ccaatgtcat caatttcagc gggccatcgt ctcagaaagt cattgcagtt 600
gtcaaagctt tgccggagga cagagtgctt attgagagtg accttcacac tgctggacag 660
cagatggacg acttgctcga ggaagttgct cggcagatat gtgagctccg tggctggtct 720
ttgcaggagg gggtccaacg attggcagac aactggaaac ggtttgtgtt tgggtag 777

<210> 898
<211> 204
<212> DNA
<213> A.fumigatus

<400> 898
cgctgccagg tcgtcgcagt ttacatcgcc ggcgaggcag tcggcgccct cacgcaaacc 60
gctatcggcg atagactggg ccgacttcgg ttcatggccc tgatgtgtgt ggtcgtgacg 120
atcggcaccg ttatccaaac agcatcaatc aacattggga tgttcctggc cggtcgtgcc 180
cttgctggat atgctgttgg gtaa 204

<210> 899
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (118)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 899
gaagattttc ccatggctcc gcgtagggtc ctctactcac tcagttacag aggaatggta 60
gccactgtac ccatctacct cagcgaaatc tcggccccgc gccatcgagg cctcatanga 120
agtatctcag gttgcggaat ctcgtttgga accatggcat cgaactgggt gggcttcgcc 180
tgtagctttg cgccctatgg gcccgtgcaa tggcgactgc cgctgggcat ccaa 234

<210> 900
<211> 216
<212> DNA
<213> A.fumigatus

<400> 900
caagggcaaa aggattgtgg tgagcgtgtg gtaggcgaca aaccatcgga ttttaatcgc 60
aacatacgta taaaccagac gacccagaaa gcagttgagg atattagtcc tgtctggttc 120
ctgcgacagg gtaaactcca ggctatattc tatcagttta ctgattctat gattaataac 180
accgttaatg tgtatcatgg tatcatgcac ggctga 216

<210> 901
<211> 864
<212> DNA
<213> A.fumigatus

<400> 901
ctattttctt ccctggctga accctgcttg ttcaggctga atttgttctt cacgattggc 60
tccattaccg ccaatgtatc tgctctaccg gtcgggacca tccttgaccg atatggttcg 120
cgcctctgtg gcttcatcgg gtccgccctg cttgtcgctg gaagcgtgtt gatgtcgctt 180
tcgttttcgc gaccggactt cgatgggtac atcattgcga acttcttcct agcccttgga 240
gggacattcg tttttgtgcc ctcgttccag atcgcgaatg cgttccccaa gcatgcaggc 300
atcatcgtcg ctctggttac cggcgcattt gatgcgtccg ctgcggtgta tttattctac 360
aggatactct atgagagcaa cccggagact tttacgccgc agaggttttt cctagcctac 420
gtggctgttc cggtctgcct tctgcttgcc ctgcttacga tcatgcctgc ccaagattat 480
caatcatcgc atcagctgga aatcaagatg gaacaggcca aggattctac gcgggatatt 540
cacgagtcag accaagagat tgaaagtgac accgagctgc gacgggtgcg aagtcaacga 600
gccgaagaac gcatggacga tatgcgacag attgaccgag ttttgggtga tgccgacgaa 660
agaagacatc gcgaggagca ggaagcggag cgccaagcga ccagcgtggt ttggggtgtc 720
ctccatggct tgcccgcacg caagcaaatg gccacgccgt ggtttattct catcaccttg 780
atgactgtgc ttcagatgct gcggatgaac tatttcatcg cgaccattcg gggtcttcac 840
cccaggagcc aaaatcggcg ctag 864

<210> 902
<211> 213
<212> DNA
<213> A.fumigatus

<400> 902
gctcacatat ttaataatta taacctattt ataattccct taaataacta tacagggtct 60
cttactgtaa tctactatag taataacctt agatattata tagagtccta ttgcaaagcc 120
agtttcatta aagttctaga tattatcttt atagatacca tgttcctgaa tagctctata 180
tatagtttta aaccactgtt ttataacctt tag 213

<210> 903
<211> 219
<212> DNA
<213> A.fumigatus

<400> 903
aaatctaata tgttgttaaa tgttggaatt aattatttaa tggggtgtaa gaaaattcct 60
ccctccgtcg ttatccgtct ctcgggccgt ggaattacgt tttccgagga acgaatttcc 120
ctatctgaac gaacgggaca ttatttattg gtggttcaaa tcaacctgaa tctggaacac 180
ccccttccc tccaagatat ctcatggaaa aatataccc 219

<210> 904
<211> 198
<212> DNA
<213> A.fumigatus

<400> 904
agatcgtcct cctggcaggt cgtcattgct caacccttc ataccatcat tttccaagcc 60
acaaattttc tggactgcgt catcgcatgg tttttgattt tgactgtctt tcctagtttc 120
ggttcgtacg gcaaacgacc ggaaaatagc gtccgtcgga tgcttgctaa atcaacaacc 180
aatcagcgat tgggataa 198

<210> 905
<211> 657
<212> DNA
<213> A.fumigatus

<400> 905
ggggggggctg gcggattttc gcgtctgtgg agaatagcct tcaagggacc tcttcgccag 60
cttattgtaa gccttccctc cgctccgctg gtggccctcc cattaaccct gccaagtttc 120
caagaagtcc aaggcctatc ggcgctggag gcatccatcc gcatcctccc cagtctcgtc 180
gtcggcgtcc ttctgaacct ggtaatcggc gtgttcgtgc acaaagtccc cgcattctgg 240
atcgccacgg tcacctcccc cctctgcgcc ggatcgccct tactcatggc cgttatccag 300
ccgtcctggc cttactgggg caatgccttc gtcgcgcagc tcttgcaggc ggtcagcttc 360
aatgcgctct acactatcgg cctaatcatt attacgaata gtttcccgga tgacacgcag 420
gccctggccg gggccgtctt caacacagct gcgcagttcg ggagtgccct gggactggca 480
attctgcagg ttatctcgac ggttgtgacg gaggagtcgg ccgctgatgg gactggtgcg 540
ctgatggcag gataccgcgc cagtttctgg acgatgtttg ggtttatgat tctttgtacc 600
cttctcgggt actttgggct gcggaaggcg ggtaaggttg ggttgaaacg ggattga 657

<210> 906
<211> 423
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (36)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 906
cattccccag cctatgatga aagccatctc actctntata ttaccatgtc gcagatattc 60
tcaatatggg tggtcccatt ccacgtctct ccagtcagac tcaccacggt catcaacctt 120
accacggatt caggagtcca gaagccgtca atggtgaacg ggaatcatac tctttactac 180
atcaccaagc aagaagatct ttaccaggtg tcagagtgga tcaagtttct ggttccccat 240
gttgggtatc tctttgttct tgcttttcaa tcatttgcga ctctcttctg tctgcttggt 300
gttgtcatct tgtatcctat catgtggctg gaggagagac gtgttattcc ttacaagata 360
ttgcgtaagg gaaaccttgt gtacaatatt gagaggaaga taccagagat taagaaagaa 420
tga 423

<210> 907

<211> 870
<212> DNA
<213> A.fumigatus

<400> 907
agacagattt ttgacgagag cggaagcctc aggcgccttg acaccgttgg cggcacgtcc 60
atcagcagtg tcatggccgg cctggccttt gaggagctgg tgatctctgt cgcggacgct 120
ctggatcagc ttctctcgca gatcgtggca ctcctcgagg cccggccgaa gccgcgtctg 180
tggtttccca ccagcattga atacgccgtc ggctgggtgc tgcgacggga cgctcgcact 240
cccgttgcgg gacagtcgtc tgacccggac ccggacgacc atgcagtcca gacggacgag 300
gcgcagcagc tcttccgccg gatcagccgg ggataccgtg tcaagcagcg gagtggtctt 360
ggccgagtgg tgctgggagt ataccactgg tttatcagcg ccgagggtct ttttgccttg 420
cgcatggtca tcctgacgat tgccctggcg gtgccggccg tcatcccatc gagctcggga 480
ttctactacc gcgaaaaagg cctctgggga ctcatcatgg ggcagaccac cctgctggtg 540
tacatgtccg actttatgtt ttcgctcatc tgccgggccg ttggcacgat tatcggaggt 600
gctgtaggat tggccgcgtg gtatattggc tccggccacg gaccggggaa tccgtacggg 660
cttgctgcca tctcggttcc ggtgattgtt atcttcctgt gggggcgact cttcctcagt 720
cccgcgatgc tgccagcgac cgggatgagt gccgcaaccc ttttcctcat catccgatac 780
agtttcgctg aatactatgc cctctgtccc ccttcccccc ccccctcccc ctttgggctt 840
ttttgcttcc tgatccctga ccaccgcaca 870

<210> 908
<211> 201
<212> DNA
<213> A.fumigatus

<400> 908
tggactgaag ctaatctgtt tccccgcgtc ctggtccggg ccgcgtgggg ttctcacagc 60
cctagtctcg acactgacaa gatcaccgat aacaaagact tcaagaaatg gatcaataac 120
tatctcggcg ttggcgagtg ggtcatggac cagtcggtgg ctgtgctgtc gtccacgagt 180
tatttcgaac gcaagcggtg a 201

<210> 909
<211> 183
<212> DNA
<213> A.fumigatus

<400> 909
gcagctacga ggtcctggcg acccaagccc aagagtatcg ccaacactgc gaagaagcta 60
cgagacttgt tcagatgtac ggtatcagcg cgcaatcagt cggcattgac cgtgcaaaat 120
ttttggatct ggattcgcca tgagattacg gtgtccatca ccaacgagat cccctgcata 180
tga 183

<210> 910
<211> 213
<212> DNA
<213> A.fumigatus

<400> 910
aatcttttga ttcagctatt tcacagccct gcccctaagg atgatactct aagtgcttca 60
attatcgtga gcagctacga ggtcctggcg acccaagccc aagagtatcg ccaacactgc 120
gaagaagcta cgagacttgt tcagatgtac ggtatcagcg cgcaatcagt cggcattgac 180
cgtgcaaaat ttttggatct ggattcgcca tga 213

<210> 911
<211> 195

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (71),(92),(147),(179)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 911
cggattgctg caagctttca tccgttcgta acaggagcac tgcacattgt cactcctgat 60
tggattacca nacgaattat tattctacta tnaccactct ttctaaatgt tacaagttac 120
agtgtccttg gcaccggcta ctacttnttc tgggaatggt actttatcta ctccataant 180
atcctcccta actaa 195

<210> 912
<211> 969
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (123),(124)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 912
tttccaacca atgcatttcc cagaaacccg ttggtaaccc tgttacttgg gttcaagccg 60
ggtttttttca cccaagggcc gaatccccaa ctctccggaa aggacgtaat ttttgtttgg 120
aanngttgcc ggggcccctg gaacccaaat ggaattggat gtttttgggg aattaccccg 180
tcccttcatg caatcatggg gcatgattat gccggaacag ttgtggcagt cggagattcc 240
gtccgtgagc tgttcaaggt tggtgatcgc gtttgtggac tcgtcaaggg cgcagacaat 300
acccggcgcg agagtggtac ctttgcagaa tatattgtgg cgaaggctgc aattcagatg 360
aagatcccag acggcgtcag ttttgaggat gcggccactg tgggagtcgg tgccactaca 420
gctgggcagt gcctctttgg accgtcttgt ctgaaactgc agtggccaga ggcaccaaat 480
cagattgaaa atcgagacac gattctagta tatggaggag ccacatccgc gggaagctgg 540
attattcagt ttgctaaact gtacgcccac ttcctcagct ctaatgacat atcactcaca 600
gtcgataggg ccggattcac cgtcctcacg tgttcgccga ataattttaa tctagttcgc 660
caatacggag cagatgttgt cttcgattat cacgaccctg tgtgtgcccg aaagatccgc 720
gagcatacca gtaataccct ccgagtcgtc tgtgacaccg tagcaactca ggagtctgtg 780
cagatttgcg aagcggctat cggtgacgca ggaggcctgt atcattcatt gctcccggtg 840
caaacgacac gcgcagacgt gcaagcaact tttgcaaact gctgtaccat gattggggag 900
acatttgagt atggtcctga tcggtggtat tcccggtctt caccacgccg tagaaggtcc 960
gcattggtt 969

<210> 913
<211> 195
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (66)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 913
cttatttttt tcgccgcaca tagcatacag gccttcacga tgaagcgttc tgtcgagact 60
ttgttngcca cagtctctgt gttttatgct cagactgata ttgagaagga gccttcgctg 120

tctgcgatag aatatgcagc agcctccatc cagccttact ctcccgtttc gaacgttgta 180
gggtgttgca tttaa 195

<210> 914
<211> 192
<212> DNA
<213> A.fumigatus

<400> 914
gacctcatat cggccatctg ctcacgattt gaatttcgaa ctaatttact ccacagcacc 60
aatttgtatg cagtcacgca tccttcagag ccaaactact gcgctgctgt tggaggcgac 120
acatttggca tggacaatga caactttaac cagattcctg ccaatgtttt caacggtcgg 180
ggatcctctt ga 192

<210> 915
<211> 666
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (160)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 915
accccaaaac cattgcttgg gaaaagtatc cagaagcctt tccttaatcc ggaattcaaa 60
gttttcactt attccaccaa ggagacttat gtcaatgact atgtgggcaa gcataaccca 120
ctggtcttgt atgactctgt caccaagaac agcactcgtn tgcgccagat caagaacttt 180
accagcttcg aggacgacct ggccaacaag aaacttcctc aatgggcatt tatcactcca 240
aacatgacca acgacgctca tgacaccaac attactttcg gagccaaatg ggagcgaagc 300
tggattgcgc ccttgctcaa caactcatac ttcatgaatg ataccctaat cctacttacc 360
tttgatgagg atggcactta ttccaagagc aacaagatct tcagtgttct tctcggtggt 420
gccattcccg atgagctgaa gggtactcag gacgatacgt tctataccca ctactcagtg 480
attgcgtccg tgtccgcgaa ctggggcctt ccttcgttgg gaaggtggga ttgtggtgcg 540
aacattcttg agattgtggc aaacaagacg ggatatgtca actacgacgt tgacacaacc 600
aatctccgcc tcaacgagac ctaccccggt cccatgtcag cgggcgaata ctcgaaagtc 660
ttcacc 666

<210> 916
<211> 279
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (22),(38),(40),(83),(84),(88),(116),(127),(142),(176)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 916
aataagatgt ttaatttccc gnaacccacg gaggatantn agatttttt tcatttgttg 60
gggggggcgag ttgtaacaat atnnatanta ttagcctacc ttagtttgca aagtantaat 120
gccatcngtg caggttcata cntagtctct acttttagta aagggacaag aggccngttc 180
acccatggca cgagtacatc tgttccgcca acccaccatg agacaatgat tggatctggg 240
atcagtgagc agtccgacca gtttccttcg aggacgtga 279

<210> 917

<211> 249
<212> DNA
<213> A.fumigatus

<400> 917
aaaacgtatg ttacgagcta tcggagacaa tatcacctcg ctattattaa acagggaact 60
gatctgatat tctcacagaa aaaaggtggt tccgcgaaga agcagattgc acagctccaa 120
gctcaagcag cacacaacaa gtccgccgaa gccaagaaga aggaggctga gaaggcccgc 180
cgtgaagccg agaagaaggc cgctgaggct gcaaagaaag gaaccttgga gttgttcaag 240
cccgtgcag 249

<210> 918
<211> 1080
<212> DNA
<213> A.fumigatus

<400> 918
aaacccaagg atgctgactt ctgcgcaaca ttcggtgtca ctgttctgaa ccttttttcaa 60
gtggcttggg cattggttct gcgactctat acagggcagg atgatgtttg cttcgggtac 120
ctggcctctg gtagagacag taatgtgtca gggatagacg acattgctgg tcccatgatc 180
aacatgcttg tatgtcgact tcagcctacc cgggacaaga ctcctcgcga gcttctcaaa 240
caagcccata agcatctcac actggctctc tctcatcaac atgtcccact cgcagaagtc 300
cagaaccgtc ttcggactca tggaaccccg ctattcaaca cgttggtcaa tctccagaag 360
tcgaacgttg gacaaggtat ctctcatctt acaatctcca ccattggggc aaatgatccc 420
aatgagttca cgatagggtt gcagattgcc gacaatgggc aatctattga tgtactcttc 480
ggacattggc tttcacgggt atctgtggat caggccgatt tgctcgcatc tctgctgtca 540
agcacggtca ataacatcat ggcgcgtccc cgtgcccgtc tcggaacaat caacttttgc 600
aacggagtac acgctcagaa gatggctgaa tggaacgaac aggctagaag gccggtggtc 660
gagtcgacac tacactcgat tattcaagat caagctagac agcgtccgag tacgattgcc 720
attgcctcca cagaagcaat gtggacgtat gaggaattag aacgagctgc agatcagaca 780
gctcggtatc ttctgcgcca aggggtccaa ccaggcacaa ttctcccatt ctggatgggc 840
aagtcttcgc gagccatccg tggttatgct ggccgatctt taaggttggg cttgcgcctg 900
tgccggctcc tagatcctgc ttcacccccc cagaccggtt ggaaattgat cctcccacca 960
aacttggggc caaatattgg caatcagtgg acccctgtgt ccatggaatt ccttgaaccc 1020
tggaagggaa cctgcggaac ctatttggcc tttgacccaa cttggggcgg gaagccttca 1080

<210> 919
<211> 675
<212> DNA
<213> A.fumigatus

<400> 919
ttgaccgaaa tagggaaacc ataccacgta gcgctggaag aggacctcac cgaggctatt 60
acaaccatcc gctactacag tggctgggct gataagatcg cgggccagac catcagcacg 120
acgtcgagca agttcgcgta tacgattcgt cagccgatcg gtgtcgtggg acagatcatc 180
ccgtggaact acccccttgtc catggctacg tggaaactcg gccctgcgtt agcttgtggg 240
aacactgttg ttctgaaacc tgccgagcag acacctctca gcgcgcttgt gcttgcggag 300
ctgattacgg aggctgggtt tcctcccggg gtcgtgaata ttgtcaatgg gtacggcaga 360
gaagccggtg ctgccctggc atctcatccg ctagttgata aaattgcgtt caccggctcg 420
acacaaacag caagagagat catgaagatg gccgcgggga cattaaaaga tatcacgctc 480
gagactggtg gcaagtcacc gctcctcgta ttcccagacg ccgacatgga gcaagccgtc 540
aaatggtcgc atttcggcat catgtcgaat caaggccaga tctgcacggc tacttcccgc 600
atctacgtac accaggatgt cttccattct ttcttggaga ggtcttcacc cggggctgaa 660
gaagggcgtt ccact 675

<210> 920

<211> 483
<212> DNA
<213> A.fumigatus

<400> 920
ctgtggatgc cctcccaccc cgtggtgaag acccccaggt cccgtcaatg tgagttaagt 60
gctgctacag ctcccatacc ccgacttccc accgctaaca tctgttttca ggcaccacca 120
ctgaagagca cgccggtttt gaccaaaacc aaagaaagga tatccgaccc ggtaatcgca 180
gcattcattg ctggaggggt tgccggtgct gtatctagga cgatcgtatc accactcgaa 240
cgcctcaaaa tcttgcttca gattcagact gtgggcagag aggaatataa attatctata 300
tggagggctc tcgtgaagat tggaaaagag gaaggatgga gaggcttcat gcgtggtaac 360
ggcacaaact gcattcgcat aataccctat tccgccgtcc agttcgggaa gctaccactt 420
ctaccaaaag gtaaatctcg aggactgtta ccacggtcca ttgagttgtg gcctaaacgt 480
tga 483

<210> 921
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (5),(16)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 921
tccantgcgg gtgcantggg atccaaaata aggactggca atttacgccg ttgggattac 60
ggtctattca aaattggact gaatgcagac gccatggaca agtacgttga tgactggatt 120
gttgggatta ccgatgtgac cgaggttttc aaggcccatt caaaaatgcc cggccgaagt 180
accggatgga agaatccaac aaggttggtg cctgcccaaa aggtttatcc ctttgtccca 240
agaatttaa 249

<210> 922
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (178),(219)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 922
caaatctcca ctactcccta cacggtggct tcaattcttt tccgggcgtc gcccatcgac 60
ccagccctcc atccttcctc tccgcctgct ccccagaccc acgatcttgc cagctacaac 120
cgttctactt ccattgacga tcaatctacg actcagcagc cgggagcgga tgctatancg 180
ggtgcgtcgc cgaaattttt caaaattggt cgatattang actga 225

<210> 923
<211> 564
<212> DNA
<213> A.fumigatus

<400> 923
cgtggtgaag actcccgcgg cgagcgagtc acccctacca acgcatatct cgactggctc 60
gccgtctccc tgttccgcca gtggctcgtg gacaacacca ctcctccgcc ggctccgatt 120

ctcaagaacg cctcgacgaa cggtctgccc gccgccggcg caaacatcag cgttagcgcc 180
ggcaacaata ccagccgcag ccatcgcacc caggaaacca catcgcgggc ccctcctccc 240
tcgccccctc tcaccccagc acaggtctac cgactcatag gctccccctc aacacaagcc 300
tacctctcgc acgacgaact caagaaattc ctcaaagtgc accccacccc atccgcagac 360
tcgctctaca ctcgcgacgt cctcaaacgc tttgagcgta aaatggacga aatcaagcga 420
ctggcccggg agatcgtcaa gccgctcctg aggaattttc tggagttgga cctgaagggt 480
accgacctgg gcgactcggc gctcggcgcg ttgccgtatc tcacctgcac gaaagtcgag 540
gacgaagaca tcccttggga ttga 564

<210> 924
<211> 546
<212> DNA
<213> A.fumigatus

<400> 924
cgctttgcag tttttggcag cgaagcgcga ccatttgacc ctgagaagaa acctcctcat 60
gtcccagcag atcacaccca ccagtggcgc gtatttgtca aaggagtcaa tgatgaagac 120
atctcctact ggctgaagaa agttcagttc aagctacacg agacatacgc gcagaatgta 180
cgcaccatcg agcagccacc gtttgaggtg accgagaccg gctggggtga attcgaaatc 240
caaatcaagc tctacttcgt gccggagtcc ggcgagaaac cacagacact atggcacagt 300
ttgaaactac acccattcgg acctggtgcg gaggtcaaga aagagcgcag agaggtggtg 360
atcagccaga actacgagga gattgtattt aacgagccca tggaaccgtt ctacgaccta 420
ctcacaggcg gacctacctc ccagcaaacg cagaagggca agggggggtaa gaatacaaag 480
caagctgcgc agcagcgtgg aggtaggacc gcgtcttcac cacggggctg gaaggagccg 540
cgccat 546

<210> 925
<211> 180
<212> DNA
<213> A.fumigatus

<400> 925
gagtcgaaga acatcactga tatctgtaac tacttgcata tcacaataat ggataagctc 60
ttggtcagaa ctttgacgat gacccgcttt gaaaattgca gccaggcccc gttccagcta 120
ttcgactatt taagttcctt cgacactatc ctgctttatt gttcaatatt tatttcgacg 180

<210> 926
<211> 645
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 926
gaantcgatc cttcttcaat tcacttcaaa gatggccaac tgcaagggac aattctcaag 60
tccatatctg ccaatgagaa agtcaagctg ccacttgtga tttctttcct ggagtctgga 120
gctgcgcgca tcgtggtcga cgaagagaag cggatgaagg gcgaaattga cctccgacat 180
aacagccaag tgcgcaaaga gcgatacaat gaagcagagc aatgggcact ggttggtggt 240
ttggaatcga gcaaaactgc cgctgtggac acagaatccg agactggatt cacaaaggta 300
ctttacgggc cggataacaa gtttcaggca atcattcgcc atgcgccgtt cagcgttgat 360
tttcagcgcg atggccagag ccatgtccga gtgaatcaca agggcttcct caacgtggaa 420
cactggcggc caaaggtgga tgtggcagag ggtgacagtg ttcaggaaaa atcgatacct 480
cagcaagatg aaagcacttg gtgggaggaa actttggtg ggaacaccga ctccaagcca 540

aaaggtcccg aaagtatcgg cctggacatc acattccctg gctacagcca tgtttttggg 600
attccagagc atgccgactc gatgtctctg aaggaaacca ggtag 645

<210> 927
<211> 681
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (566)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 927
gcagcaccga tccgaatgac cccacagcag cagataggga cgcacttttt ggaggagcta 60
gggaccgggt acaacagcag caacagaatg gtcctcctcc tccatactca gaaccgaaca 120
atgcttacgg cggcggaagc caatgagtac aacacttcca cgtatcagga gagacagctc 180
actgcggaag aagaagaaga ggaagaaatt cagaacatca agcaggagat gcgattcatc 240
aagcaaggcg atgtcgcatc gactcgcaat gctctgcgcg tggctgcgca ggctgaagaa 300
accggccgcg aaacgctcgc ccgccttggg gcccaagggg aaagaattca tgacaccgaa 360
aaagccttgg atgttgccgc tatcgagggc cgacttgctg aaaagaaagc aaaggagctg 420
aaaactctca ataaaaccat ttccccggtc caactttcaa acccatttac tacccccagg 480
agacaacggg accaaaacaa gaagatcttt gagacccatc ttcttaaacg ggcacctcgg 540
gaaggcaccc ccattaaggc ttttcnaacc accccaagaa ttgaaccccc cttcccgggg 600
agattaaaaa aaaacccggt aaaccccttt ggaaaaaccg ggaccaattt tcccggacct 660
ttcccaattt atcattttta a 681

<210> 928
<211> 345
<212> DNA
<213> A.fumigatus

<400> 928
acagcctgct ggatcaggct cgacgaaagg acgctctccc atcagcaccc ctgcacctgg 60
aggcatccca cgccacacac ccaccacggc tatgctccca accagtatgg caatcaaggc 120
ggatacggcg ctgatcgatt tggtaatgct ggtggtgcct cgacctcccg atacggccct 180
ggtggttatg gaggattagg cagcaccgat ccgaatgacc ccacagcagc agatagggac 240
gcacttttg gaggagctag ggaccgggta caacagcagc aacagaatgg tcctcctcct 300
ccatactcag aaccgaacaa tgcttacggc ggcggaagcc aatga 345

<210> 929
<211> 231
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (8),(28),(29),(34),(38),(42)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 929
aaatacanat ttcatattta ttatatanna atanaaanaa anaacacccc ccccctggcg 60
cctttctgtg tttctctgcg tttcttaccc ttcatctttc gcatgacgct tgtcactttt 120
ggcattatca ttcagggaat catggctaaa gagcgggcgc cccttatcat ttccacctca 180
tacgtacaaa ctaggactgg cagatttcat catctggaat tgcatcaata g 231

<210> 930
<211> 432
<212> DNA
<213> A.fumigatus

<400> 930
gtacgttgtg gagcgtgtac tgattcgggg agagtgagag agtgtcaggc tgtgtacctg 60
gtggcacaca gctgtctgtc tattgactcc tggagaagta caaatatccc cttcccccgg 120
tttctccgcg tcctgttagt tgctctttca ttgtttttga acctctcttt ctttctttct 180
ttctttcttt ctttctttct atctttcttt ctttctttct ttctttcttt ctttctatct 240
ttctctctct ctttctctct ttcttttgtt tcgttctttt ctaccaacaa gctcctacaa 300
tcttgttgtc tgtccgcttt ggagtccccc gtacctttgt acatacctgt tcctgacccg 360
tttgtccaac gttctgtcct ctcatcctgg cgcccccttt tgcccgcatg tcaggcaggc 420
cactgtccct ga 432

<210> 931
<211> 630
<212> DNA
<213> A.fumigatus

<400> 931
acctctcttt ctttctttct ttctttcttt ctttctttct atctttcttt ctttctttct 60
ttctttcttt ctttctatct ttctctctct ctttctctct ttcttttgtt tcgttctttt 120
ctaccaacaa gctcctacaa tcttgttgtc tgtccgcttt ggagtccccc gtacctttgt 180
acatacctgt tcctgacccg tttgtccaac gttctgtcct ctcatcctgg cgcccccttt 240
tgcccgcatg tcaggcaggc cactgtccct gaatgtatcc actattgccc cgatgggttt 300
ccctaccctc tgggatatga acgtaacttc ccttgctctc atcgatgttt cgtggttgag 360
aatgaaccgc cactactacc taacgacgct acggttttct tgctctgggt tccatcactc 420
gacaacgcct tttggcaaag tcctctttgg ctcactaacc atgaatgcct ccattgccac 480
ccccttgtta ccgccggtct tccaacctct ggtgtgtgga tcctcgaatc ctcccctcct 540
ctgtttggcc agttccctcc taacccttta tttatttgcc caggttgcct tgggtgggtt 600
gcctttcttc cgcctctctc ttcccgatga 630

<210> 932
<211> 540
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (143)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 932
agccctgtca acatcaccaa tgcccaagtg ccagacccaa gctgggaatg ggcttggccg 60
tcatggtacg ttgatatgtc cggtgacgtc gacgaccagg gctggcagta ttcgttctca 120
tttagctcaa aagcctggca tgngactcat ccctggttcc attcgtttgt tcgaaggcga 180
cgatgggtta gactgcgcgt aaagcgcact ttagagaaga cacgtcgtgg acgatcggga 240
ttcgagatgg ctcacatgtt gaacgaagat tattttacaa ttcactctcc gcggaagcaa 300
agcagagcta ccagttcgat agcggtgtcg gggaatctga gtcgcacgac cactggagtg 360
gaagaggagg ctctgttgga agagatagga aacattccta cactaatgta cgccctgaag 420
gctgccattg ttgatcgtga gaagataaac gttctgaagc gtttcatcga ggatgggggc 480
gaagagcttc actacctaga tagcaaggta tcccaatcac tcgtttctcg ttgccaatag 540

<210> 933
<211> 750

<212> DNA
<213> A.fumigatus

<400> 933
cggcggagag ataaagtagc gggcgagaag gagcaacgtg gagtggagga agatgcaaag 60
aaagagaacg tttccataga agggaagtcg gatcatacgg aggacccatc tcccatccct 120
gtcaatggag ggggttcttc ggacacgaaa tcatttgcga gcaacggcgg gaacgaagac 180
ggtggacgga agggtaagaa aggctcaggg gatagggctt tacagaagcc atccgttccg 240
gagttctatc ctcaggtcat ggctatcccc attgccaagc gccctctgtt ccctggcttc 300
tacaaagcga tcaccatccg agacccaaat gtagcaacag caatccagga gatgatgaaa 360
cgaggacaac cgtacgtggg tgccttctta ttcaaggatg agaatgccga tggcgatgtg 420
attgaaaatc ttgacgacgt gtacgatgtc ggggtgtttg ctcaaattac tgctgcgtac 480
cctcttcgtg gagaagccag cggcgtgaca gccgtccttt atcctcatcg tcgcattaaa 540
atttcatctc ttcttcctcc tggtgaacag tcgaaggctg gcaatactga ggacaaggct 600
cccgaaaaga agggggatgt tgtggcgagc tttgaagagg gcgttgccga acccgcgcca 660
aaggatctct acgagcctac ttctttcttg cgcaaatacc ccgtccgctt gtcttcatcc 720
tcaggaagcg accggatccg cgaaaattgg 750

<210> 934
<211> 504
<212> DNA
<213> A.fumigatus

<400> 934
tcgtttgcgc tcagatcgac caacgagcct atctccttca ctctgtcttt ctgtatgttt 60
ggcccagaga ggcgtaccaa caaagcagac ttcaaactaa ccaagagtcc cagcccctgc 120
ctcacatcga gcctgttcgg cctcttcaac ttcgtcttta gcatcctctg tcgcaacatc 180
ctccccatga acaatctatc aaccatcgtg gtcagtctct gctgcgcttt tgtgtttctc 240
tacgcgctag gcgcattgtg gatctatgga cggacgttcg cggacaggac gcgcatccag 300
tacggctctg cgagcccgac cctacttacc gaggaggaga tgcagcgcca gcagctgctc 360
cgattactgc agcagaatgg gaagaagaag aggtccagtg cgaaggcggt tcagaagacg 420
ttcaaggttg atgtgccgga ggttgtaagt ccggggaaag ggtgggatcg gtatatgccg 480
ccgagggagg agtatttcat ttga 504

<210> 935
<211> 468
<212> DNA
<213> A.fumigatus

<400> 935
taccacgtct cgtcgtccgg ggccgccgtg ctgtctgcct cgcccatcgc caaggccctg 60
gccatgggcg tcacctccca cgacgtgatc tacgggggcg acgtctccat cgacgccacc 120
gccaacggca acggtggctt catcttccgt gtgtccaacg ccacggccgg gccggatagc 180
tacaacgggt actatgctgg gatcggcgtc ggatacgtcg tgctcggctt cgcggaccgc 240
cagtggaatg agctcaagag ggctccggcg gcggatatca cggccggaca gacgtaccgc 300
ctgctgatcc gcacgagggg agactcgatc gctgtctacg tggatgactt gaacacgccg 360
cggatggtgg tgcaggatgg aaggtatagt gctgggttga gtggccttcg ggcttacatg 420
acgaccatgt ctgtgagtaa tgtgaggatt tatcacggct tgtgttga 468

<210> 936
<211> 288
<212> DNA
<213> A.fumigatus

<400> 936
cgtatttcag gtcagtttga ggaaactcag ggacgacatt ggaaaggagg cctggagtct 60

cgagcaacaa atggattgat attgactcgt ttagcaagaa ctactcagaa tgcaaccgac 120
cctcctataa gcactagtct taggcgtcct acaagcctag tattaggcgt cctactaagc 180
actagtccgg gtctactaaa cgctaggttt ggcgcaacca caaggctagt gttcagtagc 240
gagaccggtt ggatcagtct acacgccggc ggctggaagg tacaaagt 288

<210> 937
<211> 204
<212> DNA
<213> A.fumigatus

<400> 937
tcaactccca gaatcgtcga gtataccaga ccgacttatt accctagcgc cagcgtacag 60
aagcaacaag atgtcccagg tggtattccc cggcgagagt acaccatgga ccctcgtccc 120
cgtaattgct ttaagactga cggaccttca aggatgctcc ttatcaccgt ttttggccta 180
acacgaagaa atagtttgtt ttga 204

<210> 938
<211> 585
<212> DNA
<213> A.fumigatus

<400> 938
ctttgtttct catacctatg gcacgtcttc cctgtcgtac cacagtggta ctcgtcacca 60
gatcgctacg gctctctggt cgctgaagaa ccggtcctcg ccatgggcct gataatgacc 120
gcatccaggt accacccact gagtggattt aatggacatg cacggtccga aagaattcac 180
tggcgcacat ggccgtggtt tcaacgtgtt ctccagtcat ccatgtgggg ttcgccagtg 240
atgcgaaagc tcggttctgt tgctgctttg ttgttgctta tcgaatggca tccacgagct 300
atcaactcgc cagaggacct ggtcggcgac tgcagtgaaa tagaactgtt tgatccgcaa 360
ggccagccat acgaagctga tacaagagag tctgcagaac atgatcaact cccagaatcg 420
tcgagtatac cagaccgact tattacccta gcgccagcgt acagaagcaa caagatgtcc 480
caggtggtat tccccggcga gagtacacca tggaccctcg tccccgtaat tgctttaaga 540
ctgacggacc ttcaaggatg ctccttatca ccgtttttgg cctaa 585

<210> 939
<211> 417
<212> DNA
<213> A.fumigatus

<400> 939
tactgtatac tccactcctg gtctggcatc aggtttcatt cttttaatct gctttcttct 60
tattttcacg tcaccatgcg gtcgattcac ctcctctctt ttgtatttgg tatcagcccc 120
gttctggcct ggaccgagct ccaccatgcg ccattcatga acaagaatat cgatgccatc 180
gttgcaccgg gcacgtacac ctcgcacatg catacccttct tcgggagtga tgccatcacc 240
aacgtgctgc ccacctctgc ggaacttcag cggggctgct atagcgggga caacccaaat 300
gacctctcag tctactgtat gttgcacata acgcccatcc tcccggtttc tcattctatc 360
ttttcgaatt caggggtgcc cagtcttcac cacggggctg ggagggcaag gcaacta 417

<210> 940
<211> 504
<212> DNA
<213> A.fumigatus

<400> 940
cacgaatgca tcaatgacaa agactggagt ttcagtctgc cctccgacgc agcgcagagc 60
tttacaagcc taactggcca ggaagcagac ctgctggcct acctttttgag tccaaagcct 120
gggccctatg cctctctgct tctcgcttac cgggactcat cccctaatca tcgcccttac 180

ctaaacaaac tggacagtct gtatctggaa aagaaagagg agctaccaca cagcgccttc 240
atcacatcct gctatgcagc cgcccacccg ggcccatacg gagcctacct attcgatgca 300
atcgagcgcc aacgcgtctt cgtcgacaag atggttggat atctgtggat ccgcagtccc 360
ggcgtgcacg ggacgctgtc cagagcaatc acccgctacg agtacttctt acagctattc 420
aaactccgtc ccggaacaac tcttgtgcca acgctggaca tcgatctggt gtggcatacc 480
caccaatgct cggcgagtat gtac 504

<210> 941
<211> 381
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (358)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 941
atacgcatgc gctgttcctt ccggcccggt ggtgaagacg tgctgacaga tgtctggctc 60
agtggaccga cagatactgg tatgcagcgg ctcgccctgt ccgaggagga caagagtgtg 120
agggactggt ttatcgacac tgctaaagca ctgaagtgca atattactat cgatgaaatg 180
ggcaatatct tcgccgtacg cccgggtcgt cgaaaggatg tgcctgccac attcatcggc 240
agccatctgg acactcagcc gactggcggt cgatatgacg ggatcctcgg agtccttgca 300
ggcattgagg ctttgaaggt cattgacgag atgggaatcg agactgaggg aggtatanga 360
gttgtcaact ggacaaagta a 381

<210> 942
<211> 939
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (193),(706)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 942
cattttcata gcgaggaagg ggctcgattc ccggttagca tgatttcttc cggcgtgtgg 60
gcggagtgca tacctctttc gagggcccat gaccttaagg aagttcctac ggtggcttca 120
ctacctaccg cagcctcctc tccagagaca atgaaatccg ccctgaaaaa gatcaactac 180
cttgggagtg tcncatgctc atacaaagaa acgccgatgg cagcgcactt tgaacttcac 240
atcgaacagg ggccacatct cgagtctgcc aaccagcgcg tcggtgtagt caccgccgtc 300
caggcatacc gctggtaccg cttgaacgtc atcggtagag acactcatac tggtactaca 360
gccttccagc accgagccga tgccctgtac gcttttgccc gcatgatggt tcgcgctagg 420
gaagttgcat cttctcacgg ctgtttggca agtgttggta ttatcgaggc gaagcctggg 480
agtgtcaaca ccgtgccagg acttgtaagc ttctccctcg atattcgcgg gccagagacc 540
gaattagtcg ccgtcgtgga agcagaattg aggaaggatt tcgacgcaat tgctgccgaa 600
gaaggtaagg gtattgggaa gccatgtcga gtggagtgga ccatggattt cgactcccca 660
gcggtcaaat ttcacccaga ctgcattgaa tgtgttcaag aatcancaga agccgtcgtt 720
gccgatgctg gtgtctctga tcccaagtca cttgtgcggg atattatgag cggtgcaagg 780
catgacagtg ttttccaccc caaacgagtt ccccccaata tgatatttgt gccgtgcaag 840
gacggtttga gccatcatcc ccgaaaaatt ttggctctgt ggaacactgg tgccacacgc 900
gcctcaatcc attctggcag gcagtactcc caatattga 939

<210> 943
<211> 624

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (37)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 943
gtagggcaga gccagagatt agtggacctg gggggtngtc ttcttgcgag gaggtccatt 60
cggccggaga tgaggtccga tgggtatcgg atcatcatga agccatatct acacaagtcg 120
acatcgtcat cacggttcat cagtacaagc tattcaataa tagacgtcac tctcacaatg 180
actcacctcc gtagaatcca tcaccagcaa ggtagtcata cttttcatga tcatcaagca 240
gtgtatatgg acgaaatatc tagaaatacc acattaaccc taacccgtaa ccaccatcta 300
gatattatct tacagacgaa catccaacaa attccttcca aaatggcacc gtataaaact 360
gaagaggaat caattcgacc attctccgaa accaaatccg acttcgtgga aaaatacgtc 420
cttcgccctg tcggcaaacc cctaacgaag gagtaccgcg tctacttcaa cctcaatgac 480
aagctcctct ccccttggca tgatctggcg ctgtacccag gcagcaaccg cgagccggtg 540
gtgcatatgg ttgtcgaggt gccgaggtgg tggagtgcaa agatggaggt gagtcctctc 600
tgtgttctca tcgacacgca gtga 624

<210> 944
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (215)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 944
cgacaccaga tcgcaaaaga cgagtacctc catcccctga agcagaatat ccaggacggt 60
cggttaaagt acgttcccaa catctttccg cataaaggat acccattcaa ctatggcatg 120
ttacctcagg taagctcatt tatatgcctt caactaagag atctacagac tgatagaaat 180
caaatagaca taccaagatc ccgagatcca agacncccctc actaa 225

<210> 945
<211> 741
<212> DNA
<213> A.fumigatus

<400> 945
acagtggacc atctacggct tgtggcaaaa ttcaaacctt gtccaaaggt ccaagtatgt 60
cgggtcattg gaaggccagg gatagaagat ctctatcgcc ttccaagccc ccgcctcaag 120
gtttcgttcc accctgtgtc tcccgaagca tcggcagcag acctgaacac ggatactcta 180
tacactctat ttcgccccta tgggaagatc agagacatag agacacaacc gtctgacggg 240
aaggtcacgc ccaggtacgc ctatgtggaa ttctctcggc ccaagtacgc tggaatggcg 300
aagaactgta tgcacggatt caccatccca gaacaagaag gtggcggcaa gtcgggtacg 360
cggctcaaga ttaagtacga gcggaagatc aagctgtcca tgattaagga ctggcttttg 420
aatcatccca ggatcgttat tccggtgctc gccgccctct tggccgccat caccgtcacc 480
atctttgatc caatgcggac atttttcatc gaactgaaaa taaagtcgac gcttcagacc 540
gaagagaatg gtgtgatgca gtggatccgc aaacaggtca acaaggcaaa catcatctat 600
tttggtcgca aaggggcgga tcctcgtggg ctcaccgcca tatgggagga ccgtccggaa 660
gacattactc cactgcaatc ctggctaatg gaaaatgtgg aaaacttcat ccatattcat 720
ggaccccgtg gctccggaaa g 741

<210> 946
<211> 771
<212> DNA
<213> A.fumigatus

<400> 946
ggacccccga ttcaacagac aatccgcaac atatgggcgg acgttctggg tcgcacctct 60
gaaagcatcg gcctccagcg gtccttttt gcccttggag gtgattccgt tgccgccatt 120
cgggttgtcg cccaatgccg acaggcaaat ttgcagctga cactgcagga tgtgtttcaa 180
gcacgaacca ttcagtccct cgccgcatgc gcgacagcca tcatagaaaa gcctatggag 240
acggtgtctt ccctccttga gccgagtcaa tgcgaaaatc cagaaagcga gcttgcaaag 300
ctcgactcag aggtcctttc aggcctgggt ggtcctgaga atattgagga aatttaccca 360
tgttcgccca tgcaggaggg aatccttttc agtcggtcca gcattggtgg atcatatgac 420
acccgcttgg ttgtagaggt ccttccccgt gacgggggcg aagtcgactt ggatcggctg 480
aagaatgcat gggcggcagt cgttcgacgg catcccatct tacgcacggt ttttgcggac 540
cgccccagcg atgactccgc ctttatccag gtgacttttc gaaagtatcg acccgtcatt 600
atgggatgcg agacttccga acaatcgctg gacgatatga ttgccatgcc tgtccagccg 660
ttcgatgacc gcatggaacc ctccccatcg cttcaccgtc tgcacaagct cacaacgggg 720
ttgtattcaa tctgcttgag attcatcaag tttttgaccg aatgctgtcc c 771

<210> 947
<211> 639
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (427)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 947
gcgctgtcga ggcggaaatg gaaagactgg caagtgaggt acgctttctc aagggaccct 60
ttggattcta aactgatcgt acagacaacg agtcaacatg actacgacct cttatgttcc 120
ttccaagcct accttgtcta taccatcttg atgtacttca gccctctcgg caatgtatct 180
gcagtaaccg ataaaatcat gatgacctta atggagcttg ccttccgtac tgctcagaat 240
ggcctattgt gtacggcgga gaccactcat acgcggccaa attgggaatc ttggatcgtg 300
gtctcggcca aacgtcgcgc catttacacc atgtacctac tcaccagtgt ctacaattcg 360
gatcggggtc taccaaactt tgtggccgac gaaatgaagg gggtctatgt ccccgaaagc 420
aaggtantat gggaagtcac agaccgagaa gtatgggaaa aggagtatga ccgccacctc 480
ctggaatggg aagatggaat gctggaaata tcggagttat ggcgatcaac cgagactggc 540
tcgactgaac gacgggaaag gattggaaga tgggttcgtg gggtggacga gtttggtatg 600
atgttgttcg cagtttgtgc acatatccat ggctgctaa 639

<210> 948
<211> 273
<212> DNA
<213> A.fumigatus

<400> 948
tgcaaccatg ccggaaacca tcctctgatt tacggctccc ttggtaaaga tcctttgatg 60
atcattataa taatatgtgt gatgactggg gttgctacgt tcatgaacct tattaaacct 120
aactgtaatc ccatctcatt cagtgttatt ggtgttctaa tatactttac tgtttttaaa 180
ttgtcttcct ttagtgtata tatatcaatg atgatgtgga tagagaataa acatacaggt 240
ttcatagtct ctacagatag aatatctata tga 273

<210> 949
<211> 237
<212> DNA
<213> A.fumigatus

<400> 949
ggctgctcag cagccatcga ccatgatatc cccgcttgcc caccatccgc ccgggatttg 60
acttcgacgt atgtggctgc aacgtcatat aacgccttga agatgcgccg ctgcttatca 120
catgttctct gcgcgccgac gctcgatgta gactcgagcg cctcgacaag gcttttcatg 180
tgggctaaat cggtggcttc ggatatctcg atggtgtggc agaataggat gatatag 237

<210> 950
<211> 375
<212> DNA
<213> A.fumigatus

<400> 950
ggcgggcggt tggaacaccg cacctccagg gatcctcacc cacggtactg cagtgaaagg 60
caactttcct ccccgtcatt ccgaacagaa atctttggat tcttcactga aaccaccgcg 120
ttctcccatt gcacattcgt actaatccta gcactggatt ttcaacaaat caaggcggga 180
gaatccttct ccgtgctgcc tgcgtccaac gggccggggt tgcccggggc ttttccatct 240
gctcactcac gcgctgcaaa tgtcgaattc aaggaaaaaa actatcatgg gcgcatggtg 300
tatatgttga tctccccgcg ttcatccatc aagccccgtc aaacagcttc tccccagcaa 360
ggaatgatgg gcacc 375

<210> 951
<211> 333
<212> DNA
<213> A.fumigatus

<400> 951
gaatatatcg attccggcta tcgtgatacc aaaagccgca ttctgtattc gctgcgctcg 60
aacgctcgct acaagctgat cgttttgtgc tgtgcgtttg ttcgtttgat ctacatttcc 120
attcagaatg gcttccggtt cgcgtctatc aaagccctcg tcattggcct tgggctatgt 180
atggggtcct gttcttgcaa tttaagccga atggttctgg ccttgtttcc caaacttcct 240
tatgcaattc cgcaaagccc aactttcatt ggcaggcttt tgccaaattc caatgcctat 300
gcacttctaa atggcctaac gaatttaagg atg 333

<210> 952
<211> 1020
<212> DNA
<213> A.fumigatus

<400> 952
cattgcgtat ccttccaggc ccgtcggtgt aagacaagag gatggctcca ggcgtctctt 60
ggtccggtgc ttgtctgggt gcgtttgaag tttgtcgatg gcggttcagc tgtgatgcga 120
atcccatgct acggccggtc gatgtttcca gaagaaaaaa tccaacgaga agtttccgtg 180
atgcgttttc tcgagtttca tacctctatc ccagttcctc atatccttcg ttatggcatg 240
gccgaggaga gcccagatga actggggccg ttcattatca tggagtatat cgaccacaag 300
tacgacctcg tcgacgcact gaatacaccg ggaatcccag atgacgagcg gccaatgcta 360
gaccctcaga tcgcggagga acggctcatt tttgcttacg gtcaaatggc cggtatcatg 420
cttcagctat cgaagcacac attcgccgag atcggctgta tagctcgagc caacgaggat 480
gacgactttg acgacgtgtg ggttgtgaaa caccgtccat tgacgtcaaa catgaacgag 540
ctcgtccaag tgggaaattt tcctccccac ctccttcctg atggtccttt tccgacctcg 600
tcatcctact accgggccct tgctgatatg caccttgccc acctggtgac tcagcgcaat 660
gacgccgttg cctcacccga ggactgcaga gcaaactgta tcgcaagatt tctgttccgg 720

aagcttgcac gggagggtcg gttctgcaag taccacgaac ggggcccgtt caagctgttt 780
tgcgacgact tccgtcctgc aaatgtgctg acaaatgcgg aattccaggt cgttggggca 840
gtcgattggg aatataccta tgcagcacca ctggaattcg cttacagcgc cccattctgg 900
ctgttgctcg acctgcctga atactggcca ggagggctgg atgactggac aaatgtctat 960
gagacccgcc tggggacttt gcttcagggt actcgaagag agattcttca ccgcgggtga 1020

<210> 953
<211> 513
<212> DNA
<213> A.fumigatus

<400> 953
aggacgatcg ctggtgtcaa ggtcattcag gtcgacgagc ctgctctgcg tgagggtctc 60
cctctgcgtg ctggcaagga gcgtgaggac taccttacct gggccgtgcg tgctttccgt 120
ctggctacca gcggtgtctc cgatggtact cagatccact ctcacttctg ctactctgag 180
ttccaggact tcttccacgc cattgccgct ctggatgccg atgttctcag cattgagaac 240
agcaagtctg acgccaagct gctcaaggtc ttcgtcgagg aggcttaccc tcgccatatc 300
ggacctggtg tctatgacat ccactctcct cgtgttccca gcgagcagga gatcaaggat 360
cgcatcgagg aaatgcttcc ttacctccgc cctgaccagc tctggatcaa ccctgactgt 420
ggcctgaaga cccgtcagtg gcccgagacc aaggctgctc tgaccaacat ggtcaatgct 480
gccaagttct accgccagaa gtacaccaaa taa 513

<210> 954
<211> 453
<212> DNA
<213> A.fumigatus

<400> 954
gacgcgttac tccttctccg gcgtgaagga cgatcgctgg tgtcaaggtc attcaggtcg 60
acgagcctgc tctgcgtgag ggtctccctc tgcgtgctgg caaggagcgt gaggactacc 120
ttacctgggc cgtgcgtgct ttccgtctgg ctaccagcgg tgtctccgat ggtactcaga 180
tccactctca cttctgctac tctgagttcc aggacttctt ccacgccatt gccgctctgg 240
atgccgatgt tctcagcatt gagaacagca agtctgacgc caagctgctc aaggtcttcg 300
tcgaggaggc ttaccctcgc catatcggac ctggtgtcta tgacatccac tctcctcgtg 360
ttcccagcga gcaggagatc aaggatcgca tcgaggaaat gcttccttac ctccgccctg 420
accagctctg gatcaaccct gactgtggcc tga 453

<210> 955
<211> 558
<212> DNA
<213> A.fumigatus

<400> 955
aaaagccagt cacaccattt atttggtgta cttctggcgg tagaacttgg cagcattgac 60
catgttggtc agagcagcct tggtctcggg ccactgacgg gtcttcaggc cacagtcagg 120
gttgatccag agctggtcag ggcggaggta aggaagcatt tcctcgatgc gatccttgat 180
ctcctgctcg ctgggaacac gaggagagtg gatgtcatag acaccaggtc cgatatggcg 240
agggtaagcc tcctcgacga agaccttgag cagcttggcg tcagacttgc tgttctcaat 300
gctgagaaca tcggcatcca gagcggcaat ggcgtggaag aagtcctgga actcagagta 360
gcagaagtga gagtggatct gagtaccatc ggagacaccg ctggtagcca gacggaaagc 420
acgcacggcc caggtaaggt agtcctcacg ctccttgcca gcacgcagag ggagaccctc 480
acgcagagca ggctcgtcga cctgaatgac cttgacacca gcgatcgtcc ttcacgccgg 540
agaaggagta acgcgtcg 558

<210> 956
<211> 879

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (12)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 956
gaggatggtc cnatgaacgg cttggttgca acctcggtct ctgggagctc gatgggccaa 60
gacgagatct acgagcgctg gctgcgcaaa ccccttgaag cccacggggc cgtcctaatc 120
tggttcgccg gccgatggag catcctcgtc acgcgcccag acctgctaac agacatgttt 180
cggaacgagg acctctacgc aaaagcaggc agccagaaga agatcccctg gtcggtgatc 240
gcaacactgg tcggcgacaa catcatcaat tcgcacggcg acacctggaa gctgtacacg 300
gggatcatga agcccgggct gcagaagaag aactttgata ccgcgccgct gctgctcaag 360
tcgcggcggt tcgtggatga gattctggcg gagcagaact ctgccggtcg cggcacgggc 420
atcctggtga acacgtttgt ccagcagtgg gcggtggatg tcatggggat gagctttctg 480
gatctggacc tgcagagcct ggagaagccg cacggcacgg tgcgcctcga agccatccag 540
tctgtgatca agctgatgct gttccggccg ctgttcttca attttcccga tctagaccaa 600
ttcgcgtggc tgatcaagtc gcggcagcgt gcgtacgaga tcatgcacga gttcggggat 660
acactcatgg cgacagtgct gggtcgcatc gacagcaacc gcgagaaagg catcaagccc 720
gccgaggaga tggtcgtgca tatgctggtc gatgcctacc gcgacggcag actgaccgaa 780
aagcagttca aggataatct caagattgtg tttctgacgg cgcacgagaa cgcccagcag 840
ctggttaact cgacctttgt cttcacctct ggaaaatag 879

<210> 957
<211> 189
<212> DNA
<213> A.fumigatus

<400> 957
aagaaagaat ctcgatcaac cgtcaaaatg gtcagaactt ccgtcctcaa cgatgcgctc 60
aacgccatca acaacgccga gaaggccggt aagcgccagg tcctgatcag acctagctcc 120
aaggtcattg tcaagttcct cagcgtcatg cagaagcacg gtaggtttta tctttttttc 180
ttgccttga 189

<210> 958
<211> 348
<212> DNA
<213> A.fumigatus

<400> 958
agatcttaca agtttccaaa actctttctg tttctttgtg tttggcagct tttaaatctt 60
cgctacatcc ttactgactt gctatcaggc tacattggcg agttcgagga ggtcgatgac 120
caccgctctg gcaagatcgt catccagctc aacggtcgtc tcaacaagtg cggtgtcatc 180
aacccccgct accccgttca gctccccgac atcgagcagt gggccgtcca gctcctgccc 240
tcccgtcagt tcggctacgt cgtcctgacc acctccgctg gtatcatgga ccacgaggag 300
gctcgtcgca agcacgttgc tggcaagctc cttggcttct tctactag 348

<210> 959
<211> 516
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (406)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 959
aagcaacaag gcagaaatga ggcatcgacg agatatgata agaccgagac agataagata 60
agattatcac cacgtgcgat aagccaagga tcgcacaatt gccctcacac actcccctta 120
cactaccttc tctcgtccta cctccctagg ggaataacat caagttctca ctacacttca 180
tcggcaatcc ctataacaag accagcaatg acctcaattc aaatcctcga cggagggctc 240
ggaacctccc ttcaagacca acacggcgtc accttcgact cctccacccc tctctggtca 300
tcccacctcc tcgtctcaga ccccaccact ctcctcgcct gccagcgcaa cttcataaca 360
gcaggctgcg acgttctcct aacagccacc taccaagttt ccatcngaag ggcttcgccc 420
gcacaagaac cccgagttcc ccgatggcat cccccgcccc gctatcggaa aatatctccg 480
aactgcactg ggcgtcgccg aacaagcgcg ggttga 516

<210> 960
<211> 978
<212> DNA
<213> A.fumigatus

<400> 960
cgcggatcct tggcgcctcg tggtgaagac gaggccagtt cgggtgcagc gtttgtgcgc 60
atattaggcc tcaagctgga cccagccaat gcgccgagat tgcatctttt cgcctggaac 120
gtcggggctc gtcacccgcc accctcggcc atgcctacgg cggcctcggc cacggccgtg 180
ccgatcgtgg acatcatctc ccaagacgag atgcgatcgt tgatgacatt ctactttgag 240
aaagtcgatc cgtgctaccc atttcttgac cgtgatgtgg tactccgcca ggtcagtagg 300
cgatggctgc cttcctcgtc cgagtcggcc ctgccatacg ggccctacga tgcggtactc 360
tgcggcataa cggcgctggg atttctcttc tcacgacgac gagccgtccc cgcagagtac 420
cgggtggccg aaaccgctcg acgcatcctt gagcatggtc tgctcgtcga caccccgcg 480
tcggtggaca tcgtcaccgg ctgggtgctg cgagtcgcgt tcctgcgcat gaccgcatcc 540
cgccatgttg cctggatggc cagctgcaca ctgatgcacc tcatcgaggc atcgggtctc 600
catcgcgagc ccttgccaga gacctccctc agccagacaa gtacgccctg cgccccagag 660
atccgccgcc ggctcttcgg tatggcccgc cacctgatcg tgtggatctc cttcgagctc 720
ggccggtccc gagtcgtcct gcacggaggg ggctcgctcc cgctcgggcc ccgatcgccc 780
aacggccctt cggagtattt caacctctcc cccgtcttgg gaaagcctcg aaccccaagc 840
aaacccaata cccccgcggc ctggaatcca tcctttgccg gctgtcctcg aaggttcttc 900
caggtttcaa acgttccctc atccgttgcc ggaatggaac ctcccaggtt ctggcctggt 960
accgggcgcc tcctcccc 978

<210> 961
<211> 633
<212> DNA
<213> A.fumigatus

<400> 961
acccccgaag tccagcagat catcgcctcc gaaggcggca aagtccaata catcatcgcc 60
ccagacatcg agcaccacct acacatcacc acgtggaaac gcgccttccc cgacgcccaa 120
atcctcgccc cagaaggcct ctacgagaaa cgcaaaacct cacggtccta cccggacgac 180
cccgcattcg accacatctt caccaaggac ggcaaacact cgctgagcat ctcggacgag 240
ttccacgcgg atttcgaagt cgagtacatg gacggccacg gcaaccgcga gatcatcctc 300
tgccacaaac cgtcgcggac gctcatcgag gcggatctgc tgtttaatct cccctgcaag 360
gagcagtatg cgcaatcgga ggagtctcct acggctgggc tgctgaatcg ggcgtttata 420
tcgttgttgc aggccacggc aagtccgccg acggcacatc ggcggtttgc gtggtatgtt 480
ttgtcgaagc aggatagggc gtcgtttgcg gagtcggtga ggaggatcta caactgggat 540
tttgaccgtg ttattccgtg ccacggggat gttattgaga atagggggaa ggaggtgttt 600
cggagtgttt ttgagtggtt tctggagaga tga 633

<210> 962
<211> 213
<212> DNA
<213> A.fumigatus

<400> 962
tcaccgcaat tttcagtgcg cgcttcatgt gcaaatgaga gtgagacaat caagctcatt 60
gaggactcgg cgccctcgaa aggagaagcg caattggctg gtgattatct aaatgctaga 120
gaatacactg tgggctacct gcagcttagc caggtcaagc gaacagcgcg gcacccattg 180
ttgttgtgtc ttttgtgggc atcaaggaga tga 213

<210> 963
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (96)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 963
ctggtcccaa aaattatcga ggattccttc agacccagcc agcacaagtt catccacttc 60
aagctggact caagaaagtt ttgcatcctt gcgtgnagta tccacactat ttgtactagg 120
ttgcatgggg cagtcaaacc agtgccattg ttcggtggtt cgaaacagga ccttttcctc 180
actcggacgt ataacaagaa ctttacaatc tcccaagttc gtcacgtaga gtag 234

<210> 964
<211> 411
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (385)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 964
gatttaatca ctgatatcgt ccttgatcaa accaggctgt ggtctcgatt gctgcttcac 60
ttctgggccc tggaggccga acgagaagtc gacagaacct caaaattaga tccgatcgaa 120
tacctacaac gggcctacga ggagactatc cgcgcgacga cctcaccgaa tgaatggctg 180
ggcaccacaa cgacggtgac tgcgctttta cacttcactg gcgacaacgc agagaatgca 240
aagcccctac tctacgtgac gaacttggga gattgtaaag ttcttgttat acgtccgagt 300
gaggaaaagg tcctgtttcg aaccaccgaa caatggcact ggtttgactg ccccatgcaa 360
cctagtacaa atagtgtgga tactncacgc aaggatgcaa aactttcttg a 411

<210> 965
<211> 198
<212> DNA
<213> A.fumigatus

<400> 965
ttgcgttgtc ccaggttctt ccgtgaatac tcgcagttcc ttcccatcct cgacatcgga 60
ctgaccccca acgcatacta ctcacaatct ccttttctgt tctgggctgt tattggggtt 120
gcgtgcaggt cttacccgaa aaatccaact ctgtcttcac cacggggctg gaagggtccg 180
tgcaatcaat gtcggtcc 198

<210> 966
<211> 507
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (17)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 966
acaggagaga caatccntat tcgtctgttc ttgggtggtt tcgatctgac acccaccttc 60
cgtgatgtca acaaaaagta ctccacaaga tactatctga gcctagtatt gatcgatgaa 120
ggtaagcaga acaaaaaaat gaaagcactt gcttgttcgg atattttctg cattggcctg 180
gactgcccga tcgattccct atggcgaacc aagtgtcgtt tgtatgactt ggaaagccgg 240
tcaccattgt cgcggcgttg tttgctgcct gcattggtac ctgaggtttc catatgttca 300
acttgcccaa tgttatccca cggtatccca cctagacatt tcaatagccg atcggctatt 360
gaaatcacct cggaccagtc atggcggtca gtcgactcgg accggctgac ttgcgatctc 420
attccgaacg gcaaaatccc ccacgctaag ccacacttgg atgatcccac tcgcgtggcg 480
gccccactag gccccgggtt ttcgtaa 507

<210> 967
<211> 474
<212> DNA
<213> A.fumigatus

<400> 967
gccggttacc ttactaccct tggccaagag ttggcgaacg aaagcgccgc tccgcacatc 60
agaaccgccg ccggtctggc cttgaaaaac gctttcactt tcagagatct cgccaagtta 120
agggaggtac aggagcgatg gatttcaggg atcagccccg aggtgaaggc acaggtcaag 180
gagctggcgc tcaagactct cgcttccaaa gatgcccggg ccggccagtc tgctgctcag 240
ttcatagttt cgatcgccgc catcgagctt ccccgtaacg aatggccaga gctgatgaac 300
cacctggttc agagcgttgc aaccggcacc gatcagctga aacaagcctc cctcatcaca 360
attggtttca tctgcgagtc gcaagaccca gagctacggg aaagcctggc tgcccactct 420
aatgccatct tgacagcagt gtcttcacca cgggggccga cggatccgcg ctaa 474

<210> 968
<211> 276
<212> DNA
<213> A.fumigatus

<400> 968
caaagtggcc cgacgaattt ctgtcatgtc aacgacttga cgttgatcgc ccgggcgcat 60
cagttggtaa acgagggcta caagtatcat tttgcgaacc aaaacgtggt tactgtctgg 120
agtgcgccca actactgtta tcgatgcgga aatctggcgt ccgtctgcga gattggtgac 180
gacctcaaac cgacgttcaa gttgttcagt gctgtcagcg acgaccaacg acatgttccc 240
gtatcgcggc cgggccgcag cgagtacttc ttgtag 276

<210> 969
<211> 393
<212> DNA
<213> A.fumigatus

<400> 969
acattctgct acagcgcgat gggtctcatc gcgttcattc tcgacggcat ctgcaagcat 60

tgctcaacgc agtcaacatg ggtgcttgtt ggaataggac tactatccat cctcgctgta 120
tctgtcatta tcaatgtgct gcagcagcta ctcttcaaaa atccccacga gcctcctgtg 180
gtcttccact ggttcccctt cattggtagc accatcagtt atggcatcga tccgtacaag 240
ttctttttcg actgccgcgc aaaggtgtgc attgtcgctg ccaaatttat gtgtctagct 300
aaccaaattt gctttttggc agtatggcga tatcttcaca ttcattctac ttggcaaaaa 360
gaaaacggtg tatcttggta cgaaaggcaa tga 393

<210> 970
<211> 627
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (26)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 970
attatgtacc actgtggtac ttcccncccc gtggtgaaga cggatgggat cactgctagt 60
cctcagtcat tccgtcctcc tctgacggat gctacgcata gactgaacaa ctgcgctact 120
ccaaagagtg aaaaaggatc acatatcgaa gcagaagatt tgctgataac accagaccga 180
atgtctatcg tcacaagccc gttggcaacc agagaaaatg tgggggaaaa ccgcgcctct 240
cccaacccaa actctcaagc cggctcgaaa aggaactcag caatctccac gacttctaat 300
gtgtctggga aggggaagag gaaaacacat gttgggccat ggcagttggg aaaaacactg 360
ggggaagggg ccacggggcg tgtaagattg gccaaacatg cagtcaccgg ccagaccgca 420
gccatcaaga ttgtatccaa gaggtctgcc gctattgctc agagcgaaag tattgcagcg 480
atggaccgca atgcaagcct ctttagtggt acaggcacca gacaaatgcc gtccggcatt 540
gagcgggagg tggtcatcat gaaactcatc gagcatccaa atgtgatcag cctgtacgac 600
gtgtgggaga accggggaga actgtaa 627

<210> 971
<211> 756
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (49)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 971
catttcgtct ctagatacct gtttctagag tatgtccaag gcggcgagnt attccattat 60
gtacaaaatc acggaccgtt accggaggaa gaggcagttc ggttgtttcg acagataatt 120
gcaggccttg ggtactgcca tagattcaac atctgtcatc gggatttgaa accagagaat 180
atactgctgg actcctggcg caatgtcaaa cttgctgact tcggtatggc tgcgcttcag 240
ccagctggac attggttgaa tacctcctgc ggaagcccgc attatgctgc gccggagatc 300
atttatggcc gaaagtaccg tggagacaag gctgacattt ggagttgcgg catcattttg 360
tatgcactgc tgacgggcta cctgccattc gatggtgggg atcttccaag tactctgcga 420
caagtgaagc gaggcgaata cactattccc ccggagttga gtgtagaagc agccgacctc 480
attcagcgca tcctgcaaaa gagaccagaa gaccgcataa cgatgcatgg aatatggatg 540
catccacttc ttaagaagta cgaacatttc catcaggcaa tgtcacatca ctacctcggc 600
cctgcaccac cgttaacagc acaggactgc gggccaccag tactcagcag acaggatatt 660
gatattgata ttctgagaaa tctgcagaca ttgtggcatg gtgtcaaaac agagggtctt 720
caccacgggg ctcgaaggtc cgcgctaatg cgttag 756

<210> 972

<211> 459
<212> DNA
<213> A.fumigatus

<400> 972
attccccggc ccggacggcg acgtgcacga tgtcggcagc aacggcctca tcagtaccgc 60
cgactcgctg cacccggaat tcgtcggccc agagatcctc gcggagctgc caccagagtg 120
caaggaggcg ctcgtcgagg ccgctgcccg cgagtgggaa tggaagtcga aatggcgcag 180
cgaagcgata gacgggcaac gcacgacgcc gctgaagagc tatgcttggt ttccgtagtt 240
atcattcttg ctgtacttgc gctgcggctc tttcccattt tcatcgcggt cctcatttgt 300
ctatgtcatc acgtcgcaat cgtatcaggc atgagcaggg tttgtattct tcaaacggaa 360
aggagaacaa aaggtgcttt tctcttttt tattcttttc ttttaatctt ttgtcatgtt 420
cattcctcat tttccatttt agatgtgcta aatgcctaa 459

<210> 973
<211> 810
<212> DNA
<213> A.fumigatus

<400> 973
cacagccagt gcatgcctct ctatcactct tccgcgacca tccttggttt catgtcctgt 60
ctgatgagtg catccacatt tgtcatcggc cacaaattct cggctaggag cttttggaaa 120
gaagcccgtg agaataacgc cacgattgtc cagtatgtgg gcgaaacgct acgatacctc 180
ctggccgtgc cgcctcaaat cgacccggtc acaggcgaag acctagacaa gaaacacagt 240
gtccgggcca tcttcggtaa cggcctgcga cccgacatct ggaatcgggt caaggagcgg 300
ttcaacgttc ccacgattgc cgagttctac gccgcaaccg aaggcacctc cggatcatgg 360
aacctttcct ccaacgactt taccgcaggg gcaatcggtc gaaacggcgc cctgaccaag 420
ctaatcttgg gcgccagtct cgccgtcgtc gaggtagacc acgagtctca ggagccctgg 480
cgcgatccga aaacaggcct ctgccgcaaa gttccgcacg gccagcccgg cgaattactt 540
tacgcaatcg accccaacga cccttcggat aaattccagg gctacttcca gaactccaag 600
gccacggaaa gtaaaatcat tcgcgacgtc ctccgcaagg gcgacgcgtt tttccgcacg 660
ggcgacatgg ttcgctggga tctggaagga cggtggtact tctccgaccg gctcggcgac 720
accttccgct ggaagtcgga gaacgtctcc acgagcgcgg tcggtcttca ccctacggga 780
ctcgacggat ccgcgctaat aggtggcaag 810

<210> 974
<211> 414
<212> DNA
<213> A.fumigatus

<400> 974
gctgggttta atcgccgccc tccaccccgt ggtgaagacc aagcaggcgt cagcacgagc 60
atggcgggcc aggaaggagt ggccagtgtc tttagcccaa tggcccggac tttggatgat 120
ctcacttact ttacgcgagc gatcatcggc atgcagccat ggaagtacga caacactgtc 180
catcctatcg cttggcggtc ctcggaggag aaggaagcgc agacgaaaca actgcgcatc 240
gggctgatgt cttcagatgg tatggttgcc aacatacaca cttatacaaa gctgaccgtc 300
cccaggagtc gtccctccga cgcccgccat caaccgtgcc attgccacca ctgtcgctgc 360
actcacagct gccggccaca cagtctccga gatcacaccc ccggcatccg ctga 414

<210> 975
<211> 615
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (497)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 975
ccgtccccag gagtcgtccc tccgacgccc gccatcaacc gtgccattgc caccactgtc 60
gctgcactca cagctgccgg ccacacagtc tccgagatca cacccccggc atccgctgac 120
cccttcactg gtctaacgct tgcctctcaa ctcctcaact ccgacggctg cactactttc 180
aactcccacc gctacagctt cgaaccgtcc gaccccggcg ctgaacaact gacgcgcatc 240
gcgagactgc cccgtccccc tcgctacctc tactacctct acgtccgcta catcaggcgc 300
gataccaaat gggccgcgct aatccgcagc tttgaacaca aatccgcagc cgagcagtgg 360
aagctcgtcg cccgccgcga ggccttccgc gccacctggc acgcctggtg ggacgccgag 420
ccgcagcaat acgatttcat tttgtgtccg gtaacgccaa ggcttgtctt tcggaccaag 480
gcaaatcgcc aagcccngtc ctcttgtggg gtatccttcc gtgggaaacg ggttaatact 540
ctgcggggtg tttacacgtt ttcacactta aaccgaaaaa aggatgctct tctggcgccg 600
tttaaaccgg tttaa 615

<210> 976
<211> 333
<212> DNA
<213> A.fumigatus

<400> 976
tatgcgagac ccctcaccgc gccggcgatc tacttcacga agctgaccct gctcctgcta 60
tacctgcgcc tcttcttgct gaatcgtccc gtgaagttcg gtatttgggg aggtatcgtg 120
ttctgcacaa tatactacac cgctgcgttc tttctcaacc tcttcttaag agatctgcat 180
gcgctctcga agttggcgta cagcgtaggt gttttcagtg ttgtcagcga cgtatacatc 240
atcacacttc cgttgctggc tattgtgcag ctgcgcctga gcagggccaa gaagtggcgc 300
gttgctgctg tattcctcac tggacttttg tga 333

<210> 977
<211> 216
<212> DNA
<213> A.fumigatus

<400> 977
tcaattttga acttgttggt cgattatacc ttttttaata attataggct gttctattat 60
aaacactcct taagtgaaca gccaggtcca agcatccaaa gggcacggcg tccactaatt 120
cgactaatta gctgggcaaa gccaactttc accactcatg gtacattgac aaagcatgcc 180
tggctcttgc tagcctctaa caactcctgt caatga 216

<210> 978
<211> 429
<212> DNA
<213> A.fumigatus

<400> 978
gttcgctgta tctgttcttg cagtttctgg gtggaagtat tcaccgactg gcgactctca 60
ttcgacatga catctattga agagggtgga atcgtctttc atccaaagga gaacaataac 120
gaagatgtga aagtcgccta taaggagtat ggggacatga aaatggagag tactgcgcag 180
gatcttgctg agagcattgc cgatgatgtc aagcaaaaca tgacggctgc tctggaaagc 240
gtgagtgaaa cactgtccca ggcgatggcc aatgcaaacc gcctgtgtct ccctgcggcc 300
ggcactttct tcatgaaaga ccctgttttc aacgagggcg gtgatctgct ggtcaaactg 360
gaatatgatg ggtacgtttt gtccaatgtc tatctgtccg tgctctgcca cagtaatctg 420
accgtctaa 429

<210> 979

<211> 459
<212> DNA
<213> A.fumigatus

<400> 979
ctaccactta ttccttgtct gtcgaacaga ccgatcctgt cttctttcag aacaatctct 60
tcagtctcta catcctcagt caacatgatg ttcaccaagg ccttcttcgc tgctgccttt 120
gccaccctct ccactgccct gccccatgtc atccagcgca gcggcaactc ctccgcctct 180
ggaggcggcg tccagatcgt caacaacctg agccaaaccg tctacgcgtg gtcggtcgct 240
gatagcgtca gcgacatgca taccctctct gcggacggcg gctcctactc cgaggactgg 300
cgcaccaact ccaacggcgg cggcgtctcc atcaagctgt ccaccaagcc cgaccagtct 360
gacgtccttc agtttgagta cacccagtcc ggtgacacca tctactggga catgtcctgc 420
atcgacatgg gcaccgactc cgagttctcc aagttcggc 459

<210> 980
<211> 291
<212> DNA
<213> A.fumigatus

<400> 980
tcaactctgg gcttggtaag gcttgacagt ccctttcttt ttccccgtaa cattcagcat 60
cagaagacgg acagtgtaca attcgctgac taccctatag ccctttggaa tctcatcctt 120
gctgccagcg ctgcagtgta ctgtgacaag gctggacgtc gacccctgtt cctgacatcc 180
gttgcaggga tgttatgctc ctatgttgtc gttatgggtt tatctgccgg cttcgccaac 240
accaaacagt cctcactagg cattgctgtg attcctttac tatttatgtg a 291

<210> 981
<211> 192
<212> DNA
<213> A.fumigatus

<400> 981
ccgtccccac acagctattt cgggttctat gacatggcat ttactcctct tccaattgca 60
tacaccgttg agattctgcc ctttacaatc cgatccaaag gaatggcgct cttcacgagt 120
accgccacga tgggcaacgc gttcaaccaa ttcgtcaatc cgattgcgct caaagccatc 180
tcatggcgat ag 192

<210> 982
<211> 255
<212> DNA
<213> A.fumigatus

<400> 982
tggccatgca ctgactcctg tatgcttagt tacgcggtgt atattgccat tttgctgttc 60
tacttttgtt tcatcttctt catgttccat gagactaaac gtctgtcggc tgaagatgca 120
gcaagggttt tcgactacaa caggaagggc gctgtcatgg ataacgccgg tgatgatgtt 180
gaacagggcc ctgtcagccc cgacaacgag aaacaagaat ccaggtccgt tgttgaagtc 240
aaggacaggg tttga 255

<210> 983
<211> 390
<212> DNA
<213> A.fumigatus

<400> 983
tatgatcgct atatgcacat gtcgacaacc aatattatca ttgggcaacg tggcaatgat 60

aaagcttcac tagcactctc ctctttcatt catgctctct ttgaactgga gtgctatgcc 120
gttgctcgct tggtggtcaa agagaacaag cctcctgtca tggtgttgct tgctccttcc 180
attgaacctg attatgagtg cctcctcgag gtccagctac ccttcgcgga agatgtccga 240
acgtatcgtt ttcctcctct ggacaaggtg atcaccgtct ctggcaaagt agtaaccgaa 300
catcgaaatc tgccgaacaa agatttgctt gatgcaatga gtgaatatgt ggatagcatg 360
gagcttgttg ataccgacga gaccgggtaa 390

<210> 984
<211> 573
<212> DNA
<213> A.fumigatus

<400> 984
ccccgtgctg aagacgtgtc ccgcccgggg aatgagggcc ccatcgcatg gatgcctaca 60
atacccagta agcgtaagca gatggtaggt ggtggagtcg ggatgaaggg tatcatctcg 120
gctatggccg tcaatcccgt gggagatggt attttggctg cgggtacatt ttcgaggcag 180
ataggtctgt atggggccaa tgggattggg gagtctctcg ggacctttag cattacaaag 240
acggatgctc atcgccacat tgggggcgcg ggagtcacgc aactgctttg gagtccctgc 300
ggaagatatt tgtatattgc tgaacggaaa agcgacgggg tcttaatatt cgacatcaga 360
gtcaccgggc agcttcttgg ctggctagaa ggtcgaaggg ctttcacaaa ccaacgcatg 420
aagatcgatg ttgtacctgt cgcacaaggc gagtcccatg agatctgggc tggaggaact 480
gatggatata tgagggtatg gagaaaccct acacacactg ccggaccgca aaaatgtgac 540
tgggaatgga aggtccacga tggtaagcag tga 573

<210> 985
<211> 372
<212> DNA
<213> A.fumigatus

<400> 985
atcttcgagg agcatgattt ttttacgccc cagccgcgca tcgcagatgc ttacttcctt 60
cgtctcattc tccacgactg gaacgatgcg gattgcactc gaatcgtccg gcagatctcc 120
tccgctctac ggcccggtgc gcgactgctc attatggatg ccgtcttgcc ggagcctggt 180
gaagggtctc tgcagagtga gcgacggttg cgacggagtg atattgggat gtacacgctc 240
ttctccgcca aggagagaag tctggctcaa atgcgccggc tggtggaaga ttgtgacagt 300
cggctacggt ttgagaaatt gtatactccg cctgggagcc atgctagtat gctcagttgg 360
atctgcgagt aa 372

<210> 986
<211> 954
<212> DNA
<213> A.fumigatus

<400> 986
cgcggatcct tcgagccccg tggtgaagac ccttggagct ttctaccacg cacactttac 60
aatgagtttt ctttttttctt caacatctat tttttgcttg tggctctttc acagatcatt 120
cccgtgcttc gcatcgggta catgtcgtcc tacatcgcgc ctctagcttt cgtcgtctcg 180
atatccttgg gaaaggaagc cttggatgat attggccggc gaagacgaga tgccgaagcc 240
aactccgaag agtttacagt gttgtcgttt gacaagcccg tgggcagaag ggcgtttgca 300
acgcctgcaa ataattattc ggattccgac gaagttttcg agatcactaa gaagtctagg 360
gacctgaaag tcggtgacgt tctcaaggtt cgcaaaaacc agcgccttcc cgcggatgtg 420
gtgatcttga agactatctc caatgactct gtcactgcgc ggcgaagctc ttcagctgaa 480
gttaccgcgg atcttatgcg acccgaccca gaatcagttc aaccgtccga ggttgagcct 540
agttcaagtg ccgccgcgga tgaaattggt acttcttctg ctagtgacac attcatccgt 600
actgaccaac tggacggtga aactgactgg aaactacgct tgccttcggt cctatctcag 660
tccctgcgac tccgggattt cactagactc aaggtcaccg ccagcgcacc ggacaagcga 720

gtcaatgaat ttctcggcac tattgaactt ggctcacagt cgggtttcta cgatcccctt 780
gtcgacaaag cgcagactgg cggcgaagcg agcagcgagg atcggcaagc caattctgcg 840
cccctcacca tcgacaacac ggcgtgggca aacacggtcc tggcatccaa tacaataacg 900
tatgccgtca ttagtcttca ccacggggct ggaaggatcc gcggtggcgt atcc 954

<210> 987
<211> 207
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (51)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 987
gtttcacact caatctttct taacatttac agcatggaag gcctaatccc ntcacgactg 60
ctttttttccc gtgagaccgg gtaccttgtc attcccggct ttctctcccc agaggacatc 120
acctccctcc tgaccgagac caacaaactc ctcgacgact tcccactgag aatcccaccc 180
actcaccaaa ttcaccactg gcgatga 207

<210> 988
<211> 762
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (603)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 988
gaatcccacc cactcaccaa attcaccact ggcgatgacg aaaccgacaa aaacaacacc 60
cacgtcggcg acgactactt cctgacctcc ggcgacaaaa tccgcttctt ctttgaaccg 120
gaagccttct cctccaccct cgaccccgca acaggcaagc ccaccctcct caagcccaaa 180
cagcaagcaa tcaacaagat cggacatgca ttgcactcac tctcctctcc cttcgagaaa 240
gtctccctga gcgcgcgcaa tgccgctatc gccaagtcgc tgggcttcgt ggacccgcgc 300
gtgctgcaga gtatggtgat ctgcaagcag cccgggatcg ggggcgcggt gccgccgcac 360
cgggactcgg agtttctgta tacgaggccg ccgtcagcgg tgggatggtg gtttgcgctg 420
caggatgcgg ggccggggaa tgcgacgctg gggatgtgga aaggttcgca tcggcagggg 480
atcaagcggc ggttcgtgag gaaggtcggg gagaatggga aggttcttgg gacggagttt 540
gtggagaatg atgggcctaa gatgccgagg ggtgcggagg gtgacggtca ggatccggac 600
canggaccgg atgttaagga tgagaaattc gaaattctgg atatcatggc cgggtcgcta 660
gtgctgattc atgggaacgt gctgcatatg agcgagaaga aatacagccc ccgcaacccg 720
gttgcctatt ccttccatgt ccttgagggt gccgaccgga tg 762

<210> 989
<211> 864
<212> DNA
<213> A.fumigatus

<400> 989
cgctccgatg aaccatctga acaggatctc aaaccccgtc ccggaacttc ggccctttt 60
gattcctttg cttatcttgg ctccggagag acgaaatggt cccatacgct cgttggctgg 120
accggcgatg tggaaacaat tcaagacgtc tccgttcccc tgcaacacat ccccgtcagc 180
tctggcgcaa ggctaccgcc cgcactcaat ggcgttgccg ttccactgaa caaagcagcc 240

ggccccgtgg ccgtagactc gaagcaacga ccacccagcc acccgcttct cgaacgcttc 300
agagtcagtc aagaagaccg agcgcgtctt gacgctcagc tgagctcggg tcgttacggc 360
gagatcgctc ctgtatggtt gtcggacgag tccgaagagc ccgaggagtc ttcgatcttc 420
ctggaagatc aaggccgatg gaggcgatat gcggagaagg agctgtaccc cctgcttcat 480
tacaagcagc acggccccac ggatggccgg tccgaacgga agtggtgggg agattatgtc 540
cgcatgaacc gactctttgc ggaccgtatc atcgaggagt atcaggaagg tgacatcgtc 600
tggatccacg attatcatct cttcctgctg cccagtctgc tgcggcaacg aatcccgaac 660
atctacatcg gattcttcct gcacgccccg ttccccagca gcgagttcat gcgttgcctt 720
gcgaagcgca aagaagtcct gacgggtgtc ctgggtgcca acatgattgg cttccagaca 780
ttctcctact cgcgccactt ctcgtcctgt tgtacgcgcg tcctgggctt cgactcgaat 840
aacgccggcg tggatgctta cggc 864

<210> 990
<211> 777
<212> DNA
<213> A.fumigatus

<400> 990
gcccctcacg tacgtacgtt tcttgcctac ggaccgaaac acagagactc atggcgcttc 60
agacccctgc cagatgacgg taagctcgat attcaagagt ggaacaagca gctggtgcaa 120
ttggcgagtg cagttggacc aactgtcctt ggctctttgg cgagtgctac atgtacaggt 180
acgactgttg ctgccaagat cagatcgagg aattgcgctg agagtccctc tagaagcatc 240
cagagaatgc taaactcttc aaaacactgg caaaactacg atgttttcaa gcgccaaaag 300
gactcgacct tcgtcaaatc gagagccgca gtcgaggagc tcgccagtcg ttatatgcag 360
atcgttgccg atacgcgact cgcccaagac gagagcaagg aagcggccca gaagttgctg 420
tttatcgaaa tgacagagat cgccctgtgg ggaaacgcga ctgacctgtc actcctcgcc 480
aacctgacgc tggaggacct gcaaaacctg cagggccgcg aggcgatcca gaaaagccag 540
cgtaacatcg tcgataacga caccgacgat gtctgggcct atcttcagcg cacggccggt 600
cagaccagac gccagatcga catcatcctc gacaatgctg gcttcgagtt cttcaccgat 660
gtgctctatg ccgcctatct tttggaagcc ggcattgcga cctctatcag actgcacacc 720
aaggagttcc cgtggttcgt ttttcaccac aggggcccga aggatccgcg ctatgca 777

<210> 991
<211> 375
<212> DNA
<213> A.fumigatus

<400> 991
cttgcaaata tagttgccat cactttcctt cagcacaccg accccaccct cccccactac 60
cagcctgagg cctgggattt cactcgtgga gcagctgcta caattgaccg tgacttcggc 120
ttcgtcggtc gccacatctt ccacggcatc atcgagaccc acgttcttca ccactatgtc 180
agcaccatcc ccttctacca cgctgatgag gccagcgagg ccatccagaa ggtcatggga 240
ccacactacc gcagcgaggc tcacaccggc tggactggct tcctcaaggc cctctggacc 300
agcgctcgca cctgccagtg ggttgagccc accgagggcg cgtcttcacc acggggctgg 360
aaggagccgc gcagt 375

<210> 992
<211> 624
<212> DNA
<213> A.fumigatus

<400> 992
tggggtttta ttgccggccc ttccaccccg ggtgaagact ggaagatctc tcacggcaag 60
caccacaagg ccaccggtaa catcgctcgc gatatggtct tcgttcccaa gaccagggaa 120
gaatatgcca ctcgcatcgg tcgtgccgcc catgagctca gtgaattgat ggaggagacc 180
cccatcctga ccgcaaccaa cctcgttctt cagcagctgt tcggatggcc catgtacctc 240

ttgaccaatg ttaccggcca caacaaccac gagcggcagc ccgagggacg cggcaagggc 300
aagcggaacg gctactttgg tggtgtcaac cacttcaacc cttccagccc cctgtatgag 360
gccaaggatg ccaagctgat cgtcctgagc gatctcggtc tcttccttgt gggaagcctc 420
ctctactata tcggatcaac ctatggctgg ctcaacctcc ttgtctggta cggcattcct 480
tacctctggg taaaccactg gctcggtaag ctcctctcgt ccacctttct tgcggcatgg 540
aacaggtttt tgctgacttg caaatatagt tgccatcact ttccttcagc acaccgaccc 600
caccctcccc cactaccagc ctga 624

<210> 993
<211> 513
<212> DNA
<213> A.fumigatus

<400> 993
gaagacgtca ccattttcat gatctcaggg aatccagggt taattgggta ctaccatacc 60
ttcctgtcgc ttcttgctga caaattgggt tcgcgcggcg cgccgagtac aattcagagt 120
cgtagtcata cgtgtgaatt tcagatctac ggacatagtc tgggtggctt cgagctcgag 180
cagcatgagg atctagatgg cagaaagcgc ttatttgatc ttgaggacca gatctgctat 240
gttcaggaga agcttgatga gttccttgcg ggcggggaga cgaagcagaa ggtcattctt 300
gttgggcatt cggtgggcgc ttatatcgct atggagattc tgaggaggca tcgggagagg 360
tcagatgcta aagtcagggc cggggctgat aaggccgact tcgatatcgt tggcggaatc 420
atgctcttcc ctactgtcgt ggatattgcc aagtcgccct ctgggcagaa gttgacggtg 480
agcttcctcc cccggtttac ggtgcagtac tga 513

<210> 994
<211> 282
<212> DNA
<213> A.fumigatus

<400> 994
tgtgttaagg gggcttctaa cggacgcaga cacatggcct ctgacgagat gcagaccatc 60
acttcggaca aatggggcga tgatgtctgg ggtgtgtcga cggccagtga gccgctgact 120
cgtctattct tttacttcgg ccgaaatgac cattgggtgg cggagcggac gagggacgag 180
attattgacc ttcgagggcg cgtagaaggc gggcctacca tgtcggtttg tgagcttgga 240
cttccgcacg cgttctgctt aagtgagtgg ttttctggct ag 282

<210> 995
<211> 327
<212> DNA
<213> A.fumigatus

<400> 995
agtaagctat atgcaatccg tgcgatccta acccaagaac tatttaatgc accgtttagc 60
gacagcctca agatgctctt catcggtacc gcaacaaccc ccaataacct tcacattagg 120
aaccaaaggc aacacgccct caaacccatc cgtaaagaca gaaatatccc cccgatcaag 180
agtctcacta ttatccagct catcatggct cttcaggctc gcattccccc tgatcaaccc 240
aattctcccg cgcacatcct ccgggacatc gcgcagcgcc gcagcaatcc gcagtattcg 300
cacagcagcg aagatcccac agcgtta 327

<210> 996
<211> 225
<212> DNA
<213> A.fumigatus

<400> 996
ataaatgctc tggaatttga atgcatgcct aaatcagcat tctactggat agttaatccc 60

tcacacccat ggaacttgcg cttgatatca ttcgacttca tgtttccgta tctccactac 120
agacaatcgg tagataacgg cttgacctcc ctctatttta caggtatttc tgctttttac 180
ccttccgtct tcaccacggg gctggacgga cccgcgctta agaaa 225

<210> 997
<211> 507
<212> DNA
<213> A.fumigatus

<400> 997
caacttactg cggacttgac ggattgccta accttcttgg acaaattcat caaggagacc 60
cagcgtcggc ataacccttc gtatcagcct gggcgaaccg ccaaggtaga tatgattctt 120
cctggcggct acaagcttcc acaggactcg gtcgttattg gcgctctgca ccatcttcac 180
aataacccag acgtgtggag caatcctgcg cggttcgatc ctgatcgctg ggacacagag 240
gaggtcaaga acagacacaa gactgcctat attcccttcg ccactggtcc tcgcatgtgt 300
atcggtttca actttgcttt gcaggaagtt aaagtcttcc tgcccaagct ggtgtaccga 360
tacaagttca ccagggagaa tgatgggcat atcgagtacg atcccatgtt tcaactgatt 420
cgaccgacca acctatatgt tcgcgccgaa cggcgtgtta aatggccacc aaggtcagac 480
aatgcggttc cgtcaccttc actgtga 507

<210> 998
<211> 327
<212> DNA
<213> A.fumigatus

<400> 998
aaacaagaac gctggtgtcc gtcggcttct ccccacattt ggcactcccc ggttctccac 60
gacgggatgt gggaagacga agcccatgcc atgatcaata atatcattac accaatcacc 120
cctattattg gcttgaatcc tacaaatatc tgctcttcat tgtcgcatga gggcctggtc 180
ctaaatatta aagggaacca aggactgcat ttgcggtgca gtgtggttca tctctcaaaa 240
aataatcaat ctactcccaa gtatttatta atcaataaca gtgcactcgc ccatacggag 300
tactctgcag atacatccat attatga 327

<210> 999
<211> 450
<212> DNA
<213> A.fumigatus

<400> 999
cctaacgcag gtcactcgca gtcatggagt gtgccggctg tccctccacg cccgcccctc 60
gaggcgcagc aattcggcaa tggagcgcct tcccactacc gcttccagta ctcagcatgc 120
acagggcggc gtagagccct actgatcgga atcaactata ttggacagcc gaatcagctc 180
cgcggatgca tcaacgacgt cactaacatg tcgactcttc ttcatgagcg atacgggtat 240
cggcgggagg acatggtcat tctcaccgat gaccagaaga atcccctgag cattcctacc 300
aaggcgaata tactgcgtgc aatgcagtgg ctggtcaaag atgcgcagcc gaacgactcg 360
cttttccttc atttctcagg tgggtggctg tgggtttgca cgcttcgagg cgatactgag 420
gtgcttaggg catggcgggc gaactcctga 450

<210> 1000
<211> 264
<212> DNA
<213> A.fumigatus

<400> 1000
caggatgtat ggatgcttca atctagctcg cgtagcgatc acttaattga gcgcattccg 60
cagaagcaaa cctcaaagcc tacttctgat atcctcttct ttcccttgca cgatatccga 120

aacaaggccc gccgccgcaa gggtctcctc atccttgaaa cgcttgccta cgagctgcag 180
accaatcggg gctccctcat accgctcatg acgatacttg gcccactcgc gcgcatcaac 240
ctcgctccgg gggcgatacc cccc 264

<210> 1001
<211> 588
<212> DNA
<213> A.fumigatus

<400> 1001
cttggggtga caagggtaga caacaccatc aacaacgacc taggcgcagc acgtatcatt 60
aacggaacga ccgtcgaggt ggaaatgccc tcagagcagc ttgacattga cagtggctac 120
gacgccgccc tgcgcaacct ccgtgaccgt ctcgaagtcc ctccaccccc agtgtccgag 180
aaccatcagc aagaagacta ttaccgcgcc gtgcgtacat gcatggtgtc catctggatg 240
gtcgccaatg tcatcctcgc catgtccgtc tccgagatct atggcgtcga ctctggtgga 300
acaaatgtct atctgggcat cattttgtgg tcagtggctg tgttggcgct gatccgtgcc 360
gtcgggtcca cgacgtatgc gatcttgtta gtggtccaga agatcgttga gggcaagacc 420
aagtttgatg caggcaatat tgtgaattcc aacgctgcta cttcgagtta tgtgtcgagc 480
agatcgacgg cgcagtatgg tggtgggact agcttcaagg ataaggtgac agaggctggt 540
tggaccctca agaggacagc aggaaaggct atgttctgga agaagtaa 588

<210> 1002
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1002
gggggggtatc gccccccggag cgaggttgat gcgcgcgagt gggccaagta tcgtcatgag 60
cggtatgagg gagccccgat tggtctgcag ctcgtaggca agcgtttcaa ggatgaggag 120
acccttgcgg cggcgggcct tgtttcggat atcgtgcaag ggaaagaaga ggatatcaga 180
agtaggcttt ga 192

<210> 1003
<211> 702
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (215),(228),(238),(292)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1003
gacaaaaccg tcccaatagt ttttttgccc gtttgggttc tggtgactca ggaaccgatc 60
aagctgcgct cgaagctgtt gaacatcttt ctgggggggc gcgaaacccc cgcgtccctg 120
ctcagttgga cagtgttgat gctcgcacgc caccgggcag agttccacaa gctccgacag 180
accatcgtcg acgaattcgg gacttacgac caacnccgca acatcacntt cgctgccntc 240
aagtcctgcc aatacctgca atactgtctg aacgagaccc tacgtctgtt cnccgtggtc 300
cccggcaacc gccgctccgc gacgagggat accaccctcc cccgcggcgg aggcagcgac 360
ggcacccagc ccatctacat acgcaagggc cagaccgtcg tctacaacgt gcacatcctg 420
caccggcgca aggacatctg ggggcctgac gccgaggagt tcaagcccag ccgctgggtc 480
gatcgcaagg taggctggga ttatgtcccg ttcaacggcg ggccgcgcat ctgcatcggg 540
cagcagtttg ccctcactga agcgggatac gtgcttgttc ggttgctgca gcgcttcgat 600
gcgattgagg acgtgcagcc acatctggag atccggcatt ctctgaatct gaccagtgcg 660
ccggcagata atgttactgt ccggcttcgc gaggccgcgt aa 702

<210> 1004
<211> 489
<212> DNA
<213> A.fumigatus

<400> 1004
ccgttgaatg tcactgattc cgacctgacc gcggacatgg tccagccgcc agcggagcga 60
gacggcgcca ccgagatgac actgagcctg atcgggttcg aatcgatttc cattgttcgc 120
aaggtcagct tcattccccc tcgtcaccgt caggttagga caaccagcag tgcatctgtc 180
accgagctgt cgttgcccaa acgagaggca ctagctgagc agctccagag ccgccttgag 240
acccgctacc tggcgtattg cgatcctgcc gaccccttcc tctttgtctc agctaccgtg 300
gcgcggctga tcatcgcccg cgtatggctg atggtccact atccctgtaa gcgggcggat 360
agtaaaggcg tatcagcagc attgctgcag gcgagtctac aggataagat ctttcacctc 420
gccattgaga tcttggagcg gtcctgctcc gtcctgtgca atctgagtat cgctcattgg 480
gcctggtga 489

<210> 1005
<211> 714
<212> DNA
<213> A.fumigatus

<400> 1005
gatgaacacc ggcgagatag cgcagagtct cgcccaggag agcagatgag ccggattcgt 60
cgcagccttc accgcacact tcgtgattcg caccacggac aacaagggca taatgctcgg 120
ggtaaaaagc agcgggactc gatgtctagc gaagtggtgc ccgaggacga gcaagatacg 180
aaggaaggcg agggtctctc ccgcaaggcg ccgcagttca ccgtccatgg gaagaaggca 240
tctattgtca cttttgggtc tgagtggcag aatatgactc ccgaagagcg tctcaggctg 300
cgcaaaccta ctccgtcgga ggagccccgc gcctccgacc ctgcgattct gagcggcggc 360
gattcgaacg gcacggaacc gataaaccca ggaatctccc agtcactgcg aagcggaagc 420
actgcaacca ggatcagcat tcttgatccg gtcgagagcg agggttgcag agacgggaat 480
cctaccgcga acctggaaga cacaatggtc aagagcgacc ccaacattga tctaagctct 540
cgtcttccga cctctgatgg cgctgggccg tccaccgcgg catttccggg atcatcggta 600
ttgcccaaag atcagccgtc gtcccttcg acatccgccg acgaggcagc tgtcgacgaa 660
tatacgatcc aaaaactgca gtcgagccca cccgagcaag ctgtacatgc ataa 714

<210> 1006
<211> 285
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (244)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1006
tggcgctggg ccgtccaccg cggcatttcc gggatcatcg gtattgccca aagatcagcc 60
gtcgtcccct tcgacatccg ccgacgaggc agctgtcgac gaatatacga tccaaaaact 120
gcagtcgagc ccacccgagc aagctgtaca tgcataaaga gcatcctgaa gacaatcacc 180
tccatttacg acttcctacc cgattcattc cagtttttcc tttccctttg ttttggcgtc 240
gatntacggc gtttgaagaa ttcattccgg ccccaatatg cctga 285

<210> 1007
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1007
ccccggcgtg atcaccatgg taggatatta tcgatctccg agtggatggg atactttctc 60
ctgtatgaaa gcatgctgga taccgttttg tatgctcggg accgctacct tgctcctggc 120
ggcaaaattt tccccgacaa ggccaccatg tacttggctg cgattgagga tggcgagtac 180
aaggatgaca agatcggatg tgagagttct ctggcttacg ttaggctttt aaaggagtac 240
taa 243

<210> 1008
<211> 486
<212> DNA
<213> A.fumigatus

<400> 1008
ctcggtatag tctgggataa cgtttacgga ttcgattaca gccccatgaa agagattgcc 60
cttacggagc cccttgtcga taccgtcgag ctcaaggccc tggtcaccga tccttgttct 120
attattactt tcgatctata cacggtcact aaagcagact tatcgttcaa ggtccctttc 180
tcccttcccg tcaagcgcag cgacttcatt cacgccatca tcgcgtggtt cgacattgat 240
ttcactgctt gccacaagcc catcagcttc tccactggcc ctcacgccaa gtacacacac 300
tggaagcaaa ctgtgttcta tcttcgcgac gttctcactg ttgaggaaga ggagtgtgtg 360
tccggtatct tggagaacaa gcccaatgac aagaaccctc gtgatttaga tatccagatc 420
tcttacaaac tggagaccac ggacaagttg cgctatgatg agggcagctg cttttacagg 480
atgtag 486

<210> 1009
<211> 249
<212> DNA
<213> A.fumigatus

<400> 1009
cggctccctg tggtagaaaa cggtatacct gtcgacgtaa tcctgcgatc cgcccggtat 60
gcctatgaca acacgccgga ctgtgagtct cgactgcgcg ctcattactt agcgatgatc 120
attcgcgccc gtcatatttt caagagcagc ggaaccatgc aatttgacat ggaaatgggc 180
catagattct actttgattt gtttgttgtg atgtgtaacc acatggatga tctggaggga 240
cttgagtaa 249

<210> 1010
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1010
tccaatcgtt tccttttatc tgatactcac tcttggtttc tacgaggtgg gccggtctgt 60
ggtttaagca acccttggtt ttaccacttt ttaatcttac tggcgtgccg tgtggcttgc 120
tttgtgtatt cagacgtcac ttttctgaag gctgtctttc acctacgggg ctggaaggtc 180
cgcgattccc gcgat 195

<210> 1011
<211> 282
<212> DNA
<213> A.fumigatus

<400> 1011
agcagctacg agcgcgtgaa atccggcctc tgggcaggca gcgagtgggt cgcatggggc 60
acgcagaacc gcgaagcccc cgtccgcaag atcgagccgg gacactggga actcaagtcc 120
ctcgatggcc tggcgaacat gtacgtcgcc atggcggcct tcctgggagc cgggtacctc 180

ggcctcgagc acaagatccc tctcacggtg aaggattgtc tctgtatgtt acctcttctg 240
tcttcctctt tccactacat gaaactgccg gatgggtact aa 282

<210> 1012
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1012
gcagacgatg cggcgaccct caccgacgcc caacgcgagg atctcgggat cacgactcgg 60
ctgcctaata ctctcgcgca gagtcttgat gcgctcgagt ctgatcatgc acttcaggaa 120
ctgctcggtc cgttcctggt tcgcagttat gtgattgtca agcgggcgga gtccaagaag 180
ctggctgcta tgggcgacga ggagcggagg aagtggctga tagagaggta ttaa 234

<210> 1013
<211> 855
<212> DNA
<213> A.fumigatus

<400> 1013
ggagtgcgtt tccttccagg cccgtggtgc agacaggccc tgatgcaaac caccctgttc 60
gagacgttcc ggaagcaaga cacctcgtcc ccattagcca agcgtcagat gaagatcttc 120
ttcttttccc tcctgggaat gacgctctgg cagttcctcc ccgagtatgt ctttccgttc 180
acctcgtcac ttgccttcct ctgctgggtt gcgccccgga accccgtcgc caattttatt 240
ggatccggta tgggtggaat gggcttcttg aacctctcct tggactggtc gaacatcaac 300
tggaacggct catcgattct gctgacgccc tggtggacgc aggtggtgtt gttcttggca 360
tttgccttca actgctgggt gcttctcccc gcggccaaat ggggaaacct gggctcatac 420
aagcacggac tcatgtccaa ttctctcctc acgacgaatg gcaccaaata tcccatcctg 480
gatctgctga cccccgactt tcgtctgaac caaacggcct acgaggagat cggccccatg 540
tacatggggc tccagaacgt gtgggcgaca ttcttcgaat acgccaaggt cacggcgtcg 600
gtggcatggg tcgctactta tggctactcc caagtcaagg gcaacctcct caagatgttc 660
aggtcccgga ataaaacctc ccagaccaaa ggcgaaggta tcaatcacca gtacaccgac 720
cgcctcaacg ttctccagcg atcctaccag gaagtcccgc tctggtgtca cttggtgatg 780
ttcatggccg gcttcatcat cctcatagtc tccatcgcct gcgggtcttc acgaacggga 840
cggaaggata acgca 855

<210> 1014
<211> 477
<212> DNA
<213> A.fumigatus

<400> 1014
tggctgaatg aacgtcggca aacggagctg ggtgcatact acaatcagcg tctgttctca 60
agtgccagaa ttgctatcat tctgaagcag cttgcacaga ttgtgcagaa cgcctctaat 120
aaccccgggg aggccattgg aagaatagat ttcatgacgg atgatcagag gtcgctgcta 180
ccagacccca cctcagacct gcattggtcc aactttcgcg gagccatcca tgatatcttt 240
gctcagaatg ccgagaagca tccagacaag ctatgtgtgg tggaaaccaa gtcggaacag 300
tctcctcacc gcgaatttac ctaccggcaa atcaatgagg cgtcgaatat cctaggccat 360
cacttggtcc gggctggcat cgagaggggt gatgttgtca tggtttatgc ctaccgtggc 420
gttgaccttg tggtcgctgt catgggtatt ctcaaggcag gggcaacctt ttcggtc 477

<210> 1015
<211> 573
<212> DNA
<213> A.fumigatus

<400> 1015
acccagtaca caagggagtt tcgtactgga tatgttgagg cagcgatcga ttacttttgc 60
ctgctctgtc ttaacgccga cctcccaggt tctctgggca aatctcaagc atccgtgtgt 120
cacgaagcat tgcgggaatt tgttctagag acgagggatt ttgccaaact acttggtgac 180
atccgctcgg acgggactcg aattaagggc ttgattgagc agcgcatgag cttgatcaaa 240
ttggtcgatc aagaagaatt tctgaaaacc ataacaatac aagctgctgc gatcgcagat 300
gacaaggggc tggtaacgga tgcagtcctc ttgtatcacc ttgctgagga ttacgaccgc 360
gtaattgaca tcatcaaccg agcactgtcg gatgctgtag cactggagtt agggagcccc 420
ggtatgaagc tgcagccgtt gcggccacga actgatcttc aacagcacgc caatgatgaa 480
catgaagagg ccgtggaacc cggaagtagc ctaagtctta cagcggtgga tgatccggtg 540
gttctggcga agaatatgat tggtctctac aat 573

<210> 1016
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1016
gcaatgcctg ataccgttga tccccttgcc gacacagcct tttatctcct cctttctggc 60
gtcattatct tcaatagcct gaatcacttc gttattcgca aagagtcggt tgattacgac 120
actttgctgt cttacaacat ctttgctggc atctacatgg ccctctacca tcgatggaaa 180
accactgccg gacaagtggt tccaaatcag cctcaacgga accagtctca acactcgtga 240

<210> 1017
<211> 405
<212> DNA
<213> A.fumigatus

<400> 1017
atcacttcgt tattcgcaaa gagtcggttg attacgacac tttgctgtct tacaacatct 60
ttgctggcat ctacatggcc ctctaccatc gatggaaaac cactgccgga caagtggttc 120
caaatcagcc tcaacggaac cagtctcaac actcgtgatg tcgccgaaat tgctgaacgt 180
actccaatca ctgtatgtga acggacagtt atcgcagtag gtggctgcgt tggcatcgcc 240
tcatatgttg tcaccttcgc cagaagtatt gctacaacca tcaaggatct gtccaacggg 300
ggaaactgca acgctatgca cggcaccttt gaaggcctga agtggactta ctactccact 360
ggccggaact gtgataccac tgctcaacat gataccatcg ctggt 405

<210> 1018
<211> 807
<212> DNA
<213> A.fumigatus

<400> 1018
gttgtcaacc gggagcgtct caacgtctcc gagctggaga ggcagtttga gcgcatttat 60
cagattgcgc agcgtgctcc cccggtcggc gttctgactg tcgccaaccg tgacctgtgg 120
gccgatgcta ggaagaagct gctggcagcc aaccccgcca acgagcaggc tctgcgcgac 180
atcgagtcta gcggcttcgt cgtctgcctg gacgatgcta cccctgtgac gctggaggag 240
cgggctcacc agtactggca cggagacggc accaaccgct ggttcgacaa gcccctacag 300
ttcatcatca atgacaacgg caccgccggt ttcatgggtg agcacagcat gatggacggc 360
agccccaccc accgcctgaa cgatcacctc aacaacctca ttttcaacaa caagattgac 420
ctctccgaga agcccgtgcg ctccaacctg cccgacccgc gccccatcga attccacctg 480
aactcggagg tgctcgaggc catcgacgcg gcctccaagg agcaccgcca gcagatgtcc 540
gctcacgagc tcaaggtgca gtcctaccag ggatacggca agggtctcat caagaagttc 600
aagtgcagcc ccgacgccta tgtgcagatg atcatccagc tggcgtactt caagatgtac 660
ggcaagaacc gcccgacata tgaatcggct tcgacccgca agttccagga gggtcgtacc 720
gatactatcc gtagtgtctc ggacgagagc gtggcttttt gcaaggccca cgccgacccc 780

tccgtccccc gccaagaggt cgtgcgc 807

<210> 1019
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1019
caggagctgg taaggagtac agggtcaacg gcgccggtat cccccgcgga gggcgcggat 60
aacccccaga agaaccccgc caaggaggac gagaacattg tggtggtacg caagaaccag 120
ttcttcaaag gtgccctaag ttgtcaaccg ggagcgtctc aacgtctccg agctggagag 180
gcagtttga 189

<210> 1020
<211> 570
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (498),(544),(567)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1020
cctcatcgag acctcctgcc tcgcgagcat cgtcatcacc tacaccacga tcgtccagat 60
ggtcgccctg cagtacggca gcacccacgg cgtcgcaata ggcgtctacg tcctctggtg 120
gatcgccgcc ttcctgtcca ccctcgccgt catcggcatc cccttcgtcc agctcaaagt 180
ccaacccagc agcttcgagc gcatcccccc cgccatttta ctccccgtca ttgccgccct 240
cacctgcgcc gcaggcggcg gcgtcatctg cacttctacc gcgctcagcc cccgcctcca 300
ggtccccgtc atcatcgtcg catacctcct cgtcggcgcg ggcatatccc tcgccctcgg 360
cttcgacgcc gtcatcctct tccagcactt ctccgatcag cagccctctc cgcagaaggt 420
atggcaggat atgatcctct gcgggcccct ttggacaagg cggcttcgcg ctgcaagatt 480
ctgggagggt gcgtgcanaa gagttttccc gcatatgccc gggggacgct gcttggcgca 540
cagngcggtt ggccccgatg ccgcggntaa 570

<210> 1021
<211> 927
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (851),(897),(920)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1021
tgtcatctgg ccaatttctg ttttgcgctg catagacgat caaaacgctt ttcctccact 60
tcagcatact cgacatgtct gatcaacata ttgatcgata tcatgccagc tcctccagca 120
taccctccag cccgtgcgct gttcaacttc tccccgcaat ggttcgtcat gccccaaggg 180
accgccatca tctcggtcat cctgcaccaa ctgcactacc agttcggcgc attgcgtatc 240
ctagccaaga tcgtctggat ttataccatc gtgcttctcg ccatgacgct cttcctgtac 300
atcctgcgcc tcatccgata cccaagagaa gtctgcgatg aactgcgcca taacctcatc 360
gagacctcct gcctcgcgag catcgtcatc acctacacca cgatcgtcca gatggtcgcc 420
ctgcagtacg gcagcaccca cggcgtcgca ataggcgtct acgtcctctg gtggatcgcc 480
gccttcctgt ccaccctcgc cgtcatcggc atccccttcg tccagctcaa agtccaaccc 540
agcagcttcg agcgcatccc ccccgccatt ttactccccg tcattgccgc cctcacctgc 600

gccgcaggcg gcggcgtcat ctgcacttct accgcgctca gcccccgcct ccaggtcccc 660
gtcatcatcg tcgcatacct cctcgtcggc gcgggcatat ccctcgccct cggcttcgac 720
gccgtcatcc tcttccagca cttctccgat cagcagccct ctccgcagaa ggtatggcag 780
gatatgatcc tctgcgggcc cttttggaca aggcggcttc gcgctgcaag attctgggag 840
ggtgcgtgca naagagtttt cccgcatatg cccgggggac gctgcttggc gcacagngcg 900
gttggccccg atgccgcggn taagcca 927

<210> 1022
<211> 210
<212> DNA
<213> A.fumigatus

<400> 1022
gaacactatg gtacgtttga tcgtcctggt tttactgttt ttacagccat tgaccataaa 60
atccaggttc gccgtgccat caagggcttc gtcgccgaca acccggagta cgagcgtctg 120
cttcctcacg tcaagggtga gttagatacc ttttacccgt gttggacggg gacaattgac 180
gtttggaatt ggtggctaat ttctgtatga 210

<210> 1023
<211> 315
<212> DNA
<213> A.fumigatus

<400> 1023
gaagacatgg ggggcaagtc agctaccaag gccgcttact tcgataagct caagagcctt 60
ctcgatgagt acaagaccgt cttcattgtc ggtgtcgaca atgtcagctc tcagcagatg 120
cacgagatcc gtctcgctct ccgtggccag gccgtcgtcc tgatgggtaa gaacactatg 180
gtacgtttga tcgtcctggt tttactgttt ttacagccat tgaccataaa atccaggttc 240
gccgtgccat caagggcttc gtcgccgaca acccggagta cgagcgtctg cttcctcacg 300
tcaagggtga gttag 315

<210> 1024
<211> 435
<212> DNA
<213> A.fumigatus

<400> 1024
aaaacacgca cgtatgtcgc cataaagtcg gtcaacctct cgaagttgaa taagaagttg 60
aaggacaacc tgtcttctga aattcatatt ctcaaaggcc tctaccatcc acacatcgtt 120
gcgctaatcg attgccatga aaccacctcc cacattcatc tggtgatgga atattgcgct 180
ctgggcgacc tgtccctatt catcaagcgc cgagatactc ttggagatca taggtacaca 240
cgggatatga tcgccaagta tccgaatcct cccggtggcg ccctcaacga agttgttgtc 300
cggcatttcc ttaatcagct ggcgagcgcc ctgaagtttc ttcgcgaccg gaacctcatt 360
catcgcgata tcaagccaca aaacctcctg ctttgtcctt cgccctcgtc ctatcgcaat 420
ggcgtcactc aagta 435

<210> 1025
<211> 909
<212> DNA
<213> A.fumigatus

<400> 1025
gatgtggccg gaaacgctgt agacctcctt ccagaagaac cacgcatgat cattggactc 60
cactgggccg atactagctc caatttgatc gtagtagcat cggatagcaa gatttccgag 120
ctggcaatct gggatgactc attgcgccca gatgagtttc cttctcctca agtggtggat 180
ggttcggtat atgaccttag ctggctcggg gacaaacagg cctatgccag cggtcatggt 240

gtagtttacc agtgcgatgt ggactccagc attcgtatcg cggagacttt ctcatggggc 300
gaatcagaca gagtttggtc cttcgttcgc tgtgccaacg ccggctcatc ccctgtggca 360
gtagctgcat catctgatac tgcggcattt tgggtgccaa cgcatgatat gcatctcgat 420
gacgcgcacc aaggagatat cacgtctatt gagatacgtc ctcatcccga gccatgtgaa 480
aagactcagc atggtcattc tgtcgttctt gcctccgcat ccaccgacgg tgccatcaaa 540
atctggcaaa ttgacctaga agcaaaacgg tttatctgtc ttcatcgcct ggtcctcggt 600
cagtcaatgc caactctggc cgcctgtttc tcacccgacg gttacgctgt tgctgctgcg 660
agccgcgaca gattgtttat ctggaatgca gagagaggag gtaccgcgat ggctacctgg 720
gtcgtacccg gctccgatga agcaaagtca gatggagaag cagatcatgc ggcaaacggt 780
caaaacgggg ccgtgggatt gctgccagat cgctcccttt cgtgggatac cgatggtaag 840
aagcttgcat tcggtttcgc aaaacaggta tgcctcttac ttctggtcaa ttgcttaacc 900
atatactga 909

<210> 1026
<211> 297
<212> DNA
<213> A.fumigatus

<400> 1026
accaattgcc tgacagaagt tgttttcgaa gatgctcttg aacaagctag acgcctggac 60
cagctgtttg aggaaaaagg tcaactcgcg ggccctcttc acggcattcc cgtcactctc 120
aaggatcaat tcaatatcaa aaaagtcgat acgactttag gttacgtagg ccgctcgttt 180
gctccagctt ccgaggatgc agtgcttgtt gagatgttaa aaggtatggg tgctgttatc 240
atcgcaaaga caaacttgcc gcagagcatt atggtctgta tcccgctggg accgtaa 297

<210> 1027
<211> 759
<212> DNA
<213> A.fumigatus

<400> 1027
tgccaaatgg cgaggtcaag tttcaccgcg ttcttggtgg ccttcaccac tgttgtgaat 60
accatctcac cgagctatgc attcaacagc ctgttgcacc gagcctctga ctcctgtcca 120
gcatcatatg agcaatgcaa caactccaat ctgccatcct ctttttgctg tccgtcgaca 180
tctacctgcg tgagtctgga taacgacagt tccgccatat gctgccccag cgggcaaagt 240
tgcgcattta ttgagccaat cacttgcgat gtgtcacagc aaaatgccac tctccaccca 300
aaagccgtgg tcaagacaat acggcttggt gataccctgc caaagtgcgg ggattcatgc 360
tgtcctttcg gatacagctg ccaaagcaat agcatttgcg ccatgagcac atcgactact 420
tcgatagcca cgaactcagt ctcttccctt accacaacag cctccagcat tccttccgct 480
ccctcaacag agtctatgac atctatgaca tctacagttc caacagctgc tactagttcc 540
tcgaaagtca cagacagtgc atcctcaacc gatggtgtcc acccgactat cataactgca 600
tctgatccag cagatccatc agccttcggt gctgcttcta gctgccatgg gactacagct 660
actatgacgg acgcatgccc ttctttccca accaaagcaa taattgccgg gttcttcccc 720
ggggtcttct accacaggga agcgaaggat cagcgctaa 759

<210> 1028
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1028
agacatgcac catatctacg ttataccaat cggatcgttg gaagaggaac agaattgcta 60
ttagataagg agaatgctac tggtcatgct tgtaattcca ccaccttgca aacagtcaat 120
accaagttca tgttaatgca gctgcccaac actctgctgt tcgatttttc agctatgcag 180
tttccacaac attcacagag aggtacaaga aaaatcaaga acgtagctct gtggtcacaa 240
taa 243

<210> 1029
<211> 537
<212> DNA
<213> A.fumigatus

<400> 1029
gggggggga gaagatcttc cagccggcgg ctgatacacc aacgaagatg ctcgcaagcg 60
acgaaagctc tttacgagag agaacttgct aaaggagtca gtgaaaacga agagatattc 120
acgggcgagg agtctgttag cacgggtgcg caaccacagt gggccagcaa gtaccgacct 180
cgcaagccgc ggtacttcaa ccgggtgcaa atggggtacg agtggaacaa gtacaaccag 240
acgcactatg atcatgacaa cccgccacca aaagttgtcc agggctacaa gttcaacatt 300
ttctaccccg acctcatcga taagacaaaa gcccctacct accgcattga acgcgaacat 360
ggacggaaac gtggacaatc atttgccgcg gctggcgaag aggatacgtg ccttattcga 420
ttcatggccg gacccccgta cgaagatatc gcattccgga tcgtagacaa agagtgggac 480
tacagcgcca agagagagag aggatttaag agcacgtttg acaaggcata tcctgtt 537

<210> 1030
<211> 198
<212> DNA
<213> A.fumigatus

<400> 1030
cctggcaatg ctatatccat gatcggtgcg cacacagact cccctgttct gagagtcaag 60
cctgtcagca acaagcgcgg agagggctat atgcaagttg gtgttgagac gtatggtgga 120
ggcatctggc acacatgtcc gtttactgac ttctatccct acatggccca ctcaaaacta 180
atggtcgtca gggtttga 198

<210> 1031
<211> 474
<212> DNA
<213> A.fumigatus

<400> 1031
cgaagtgggc ctggtaaggg aaatgacttc tcctattcca ccacgcaacc taataatgag 60
gaacagatcg gcgctaccct tggaggaggg atcgggcgcc ttcttgggca cgttggatac 120
gccgcagaca ccgtgctctc gatgcgggtc gttgtggtgg accagagcgg agtagctcgc 180
gcagtcgagg catcgcccga cgtcaactcc gatctcttct ggggtcttcg cggtagcggt 240
catttgttcg gagtggtggt tgaggctaca ttccgagctt acccgtggac ccatgacaca 300
tggcacagct gtctggtctt tccgcctagt gacgcaggat tggtggcaga ggctgtggag 360
aaggtccatt accagggagg tatgcagggg cggctggtat tctgcgctcc aaacaagcag 420
gtaagtctgt ccagaaccct ttactggaac ccactggctg actttgagaa ttag 474

<210> 1032
<211> 222
<212> DNA
<213> A.fumigatus

<400> 1032
cctattgttc ttctccaaat gtggtatatg ggatcacacg aagaggctgc cagcaaattc 60
cagcctctat tggagctccc gtctatgaca gatcatcctt taaactttgt tggccgccgg 120
attccgtacc ctaacctcaa tgactccagc gaccgtatat gtggctacgg gggtagaaag 180
aacctcgccg cgtttggctt gaaaatcttc accacgcggt ga 222

<210> 1033
<211> 423

<212> DNA
<213> A.fumigatus

<400> 1033
gctgacatgt gtcctcaggt ttcttatgcg gtgcagaacc agaggccgtt tgtggttcga 60
ggaggtggcc acagcaatgg cttctcgaca gtcgacagcc ctgggatcat catcgatctc 120
tcgcgtatga gaaaagtcac cgttgacgtg gagagacagg ttgttgttgc acagggaggc 180
gctactatgg gcgacggggt gaaggcagcc agttcagtcg gaatggctgt cgctaccgga 240
acctgtaacg aagtgggcct ggtaagggaa atgacttctc ctattccacc acgcaaccta 300
ataatgagga acagatcggc gctacccttg gaggagggat cgggcgcctt cttgggcacg 360
ttggatacgc cgcagacacc gtgctctcga tgcgggtcgt tgtggtggac cagagcggag 420
tag 423

<210> 1034
<211> 348
<212> DNA
<213> A.fumigatus

<400> 1034
tttgatcctc gtcctcctgg cttcagctgc ccatctgcaa gcaagattca gtcgtactgt 60
gatgctgccg atccatactg ttgcaatgga aacgatgcca acactcatca aggctacggc 120
acggagtacg gacaggcagc tcttactttt gtcaagagca agctgagctc gagcggctcg 180
ggaggggggtt caggaggtgg ctctggaggt tctggaggct cgggtggctc cgggggaacc 240
gttgcccatt atggtcaatg tggaggccaa ggatggacag gcgccacctc atgccagagc 300
ccctatacct gtacagtaat cagccagtgg tactctcagt gtctgtga 348

<210> 1035
<211> 750
<212> DNA
<213> A.fumigatus

<400> 1035
tttcacaggg gccgtgcttt gtcctaccag atgatcaatg caaccaacgg tggtcccagc 60
tatacatggt cctccatcgc gctaaccgac gcctttcaga aggcagagat gccaatgcct 120
ttggttgttg cagatggtcg ctaccctgga gaacttctca tcagcagcaa tgccaccgtc 180
tacgaattta atccttggga atttggaact tttgacccca cagtttttgg atttgcgccc 240
ctcgagtatc taggaaccaa attcaatggc ggctcagtcc caagtaatga gagctgtgtg 300
cgtggctttg acaatgttgg ctttgtcatg ggtacgtcct ctactctctt caatcaattc 360
cttcttcaga tcaactcaac ggctttgccg gattggctga aatccgtctt caccgacatc 420
ttgaaggaca ttggcgagaa tgacgaggac attgctcaat atgctcctaa cccattctac 480
cacttttcca acacaaccaa ccctagtgcc gctgaattgg aactggattt ggtggatggt 540
ggtgaagatc tgcagaatat accactgcac ccgttgattc agccagagcg acatgtcgat 600
gtgatcttcg ccgtcgattc ctctgccgat accacgtaca gctggcccaa cggatctgcc 660
cttgttgcta cttatgagcg ttaccttaaa ttcctcaggc atcgccaacg ggtacttccc 720
ttcctgccat tcccggatca gaataacctc 750

<210> 1036
<211> 282
<212> DNA
<213> A.fumigatus

<400> 1036
cggcagttgg gtggattgct gcattcagcc acctatctgt ctggcctgag cggtggatca 60
tggctggtgg gatcaatcta catcaacaac tttactacca tctctgcact ccaaacacac 120
caaaagggca ccgtttggca atttcaaaat tcaattttcg aaggtcccga tgggggtagc 180
attcagattt tggattcagc cacctattat agggacatca gcaatgcggt ctccggaaag 240

tcggatgcag gctacccgac ttcaattact gactactggt aa 282

<210> 1037
<211> 372
<212> DNA
<213> A.fumigatus

<400> 1037
tttgattacg ttgcaaagct ggaattaaac tcgtacaact ttcacagccc cttggctgat 60
cgtctggggt gctacctgca cccgtacgcg gctttgatta atcacagttg cgactacaat 120
tccgtcgtcg gctcagatgg cgacgccctc tacgtcaagg ccctccgccc aattcggaaa 180
ggcgaggaga tactcgtatc gtacatcgac gccacgaacc catataaaat ccgccagaca 240
gagctcttgg agcgatacta cttcaaatgc cgatgtcccc agttcgggaa aagcacaaac 300
acccgcgaag aacgcttcct ccgcgaaccg cacgacctct ctgtcctgga aaaagccgaa 360
aaacgccgcc at 372

<210> 1038
<211> 489
<212> DNA
<213> A.fumigatus

<400> 1038
tccttccagg ggccgtgtgt gaagacggcc ttctctgttg ttcaaagaaa ttcgacttac 60
ccgagttata attcaggcca ggatgcgtcg ataatatcgc aattcttccc tccaggaagc 120
gatcagacga tcaatttccc tacatttctg aatattttgt caagtctcct tgcgccgctt 180
tcatctcggc aggaactgat gaatgccttg gctgcttttg acgacgatga tagcggacag 240
attgatgttg cagagcttcg cgataccctc ttacacacag cgtcggagga tggacaatta 300
cccctgacgg agaaggatat taacgaggta ttgggtggat ttaccggacg cagagtattt 360
agtagcaaag ccgggaaact gtctacagga gggaagagag gggaggtctt tcggtatcag 420
gaatttattg acagtgccat aggaggatca gcaagtgggc gcagagatcc tgatactgtc 480
gcgagatag 489

<210> 1039
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1039
cagacacaac tctcagatta tttgcctaac atccttagct tctcatcttc tcatcctaat 60
gaagcttttt acactcctca tcatcctact acattgccta gtctcatcca taagatcacc 120
tcttcctcac aggcctcaaa ccacgctgaa agggcgataa cctcagcaag cccagaccat 180
ccgtcagtct tctttggcat agctggatct ttaacataa 219

<210> 1040
<211> 471
<212> DNA
<213> A.fumigatus

<400> 1040
aagggcgata acctcagcaa gcccagacca tccgtcagtc ttctttggca tagctggatc 60
tttaacataa ggctactgca gcagtttgcg atctctcatc tctggcttct catcacccat 120
ctcattgcta tcttcgagcc agcaaccaat atgaaccttc ttgatctacc caccgaggtg 180
ctcgtcatga tagcagaggc ccttcaaacc gcccatgaca tcaatactct tgcacggaca 240
agccgcactc tctactcctg tatcaactac gtcctctacc agtctgatgt gcagaatgga 300
aacggaaaag ctctgatctg ggccgcacga cgcaacaagc cagcaaccgc gcagaaatcc 360
ctccaggcag gcgttaaaaa attgaaaaaa atggcatcgc cagcccctga tgctctcgtt 420

aaagggcggc cacgaaacca tgatgcggtt gttattggac aaaagtgttg a 471

<210> 1041
<211> 228
<212> DNA
<213> A.fumigatus

<400> 1041
tggcagacag gatttggcct agtagtcatt atgacaactg acggaggaaa gcgcgttttg 60
attctctacc attatgatat cctggttcga gggcttgctt tggcggtaac gttgagttct 120
tctagttcga tatcggacta tggtgtatca gagaagctag gggttctcat tccttgttat 180
caaccctata tattcctgct ttatctctct cgtgggaatg gtaggtag 228

<210> 1042
<211> 546
<212> DNA
<213> A.fumigatus

<400> 1042
cccgctcggt ctgctcttgg cctgcttgat atgctggccc agagtctacc tcccagccaa 60
gttgttgtgc cccttcttca cgctttgggc cagtacttca acaacagcaa ccctgactac 120
cgcagggctg gtatcatggc tcttggaatg tgtgtcgagg gtgctcctga cttcatcagc 180
actcagatgc aagacatctt ccccatggtt ctgcagctgc tcgctgatcc cgaacccaag 240
gttcgccaag cctctttgca tgctgtggct cgtcttgccg atgacctcgc tgaagatctc 300
agtgctgagc acgaaaagct catgcctctg cttttcaaga acttggccag tgctatgcag 360
gagtacaagg gtgaggagga tggccccacc attgatatca tgaaggccgg tatcagcgcc 420
attgatgccg ttgttgatgg cttggacgag aaggacgtcg ctccttacca gggcgagctc 480
gttccgattc tgcacaagct cttcaagcac ccccatgtca tcagacaggg ctggaaggta 540
tgcgtc 546

<210> 1043
<211> 816
<212> DNA
<213> A.fumigatus

<400> 1043
cttcagtccg cctacaccat ttgggacttc cttaacgtcg cctcgatcca caactcgagc 60
acgactaccc ctccgccgag atcgcgagaa ctgttcctgc tcgccaacat tgagcagtac 120
aacctggcct acaacacctc cgagcctatc cgcgccgtcg ccggctctac cctcgccggc 180
gaggtgctcc agggcctcaa cgagactatc gcctccaagg gcaagagcaa gctgaacgtc 240
cagttcggct cgtacggcac cttcctctcg tactttggac tggcgcagct gcccgccgca 300
acggtcgact ttaccggcat cccggactac gcctcctcta tggcctggga gctcgtcacc 360
aactccacct tggacgagtt cccgcccgcc tccgagatca gcgtgcgctt cattttccac 420
aatggcacca tcagcagctc gtccactccg gccgaatatc ccttgtacgg ccagtcgagt 480
gtcaccatcc cctggtccga ctttgtgacg cagaccgaga agatcgccat cacggacgac 540
gagcagtggt gcaaggcgtg cggaaacacg gacggcgcgt gtgccgccta cactgtttcc 600
tcttctggat cggagtcttc ctctgcgggc ttgagctcct ccaaggatgg agtgtcgcga 660
cctgtcgctg gtgttatcgg cgctatggtc actctggcgg tgatcctcgg tctggaagcg 720
atcttcctgc ttgtcggtgg attcagaatc accaagaagc ggagtgctgt gtctggggtt 780
gagaccacaa ctgttgaggg gcccaagaag gtttga 816

<210> 1044
<211> 372
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (25),(26)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1044
gaaaggcacg catatttttt ggggnnttttt tttccccccc ctttttcgaa gcctatgggt 60
atggatgact ctattattga ggatgctctt accttcaggg gattccgttg gtgtgaagat 120
cccgaagcaa gaagtacgag ccttgttagc atcagcccgt caaacatgca tttcggctac 180
ggtagacaag cctgccctgg ccgtttcttc gctgcgaaca cgaacaaggc aatcttgggt 240
cgcttgattg cagactacga gttcaaattt gagggcgaca acaacaaaag accgaggaac 300
ctcacccttg gggagcagat tatgcccaac atgcacacca aaatccttct taagaagagg 360
gcctttgttt aa 372

<210> 1045
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1045
ccaccgcatt acgaggactg gctacgcccc caggaacctg ttgatataac agcgatcttg 60
ttagtaaaat ccctcaccca ccattctaaa acacaacata acaacctcac tcaccttcaa 120
tggcacactc gacaggaaga aactcaccga ttcatcttcg cacaatactc cgccactttc 180
tcgagatcaa aatactcccc aatcggcatc ccccaaccga ccagcaacca ctggtgtatc 240
tggaactccc gcggaacttg a 261

<210> 1046
<211> 396
<212> DNA
<213> A.fumigatus

<400> 1046
tctctatatc ttcatagaga cgtaaacact aatactctgt caacatcaga ccattttgca 60
cacgtcgatg atgatcatca gaccgatata gctcgccacc gaactttggt cagtggcatc 120
ctgctggagc gtgttgcttc gtcgatgttt gtgcttggat cttatccctc tagatctcaa 180
gagcgacaga ctagaaggat cacctcgctt gctagagacc cggagctacc gcaactgtcc 240
tcacaggcca gtctcggcag aaactcaaag ttctataacc taacccctga agatagggag 300
gctctgggag gaatagagta ccgcagcctt cggctacttc tcaaaataac gctgggtgag 360
agtaaacttg agataaattc cgtacagaga acctga 396

<210> 1047
<211> 645
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (34),(70),(122),(133)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1047
gatccgcgca atgagcagat tttcgggtcg agancaacaa gttcgccttc tcccccgggc 60
caactcaacn agatgctcaa tcccaagtcg ctcgctgcgt tccaggcgct cgggggactg 120
cncgggctag aanaaggctg cgggaccgac ctgacgtctg ggttatccga ggacgaagct 180
ctcctagacg gtacggtcga ttttcaagaa gccactcaga acgaccagaa actctcaaaa 240
caaatttcac acaacgcacc ggtggcacca gcaccagcac cagaattggg cggcgggtca 300

agattccagg atcgtattcg tgttttcagc cagaataagc tgcctgcgcg gaagtcgact 360
ggtttcctga agctgctgtg gttcgcgtac aacgacaaga ttatcattct gctaaccata 420
gccgctatcg tctcgttgtc cctgggtatc tacgaaacag tcgatgaggg gcatggagtg 480
gactggatcg aaggtgtcgc catctgcgtg gctattctga ttgtaactgt cgtgactgct 540
gtgaatgact tgcaaaagga gagacagttt gccaagttga ataagagggt aggtggaatg 600
gtctccgcgc ttttatctat ttgttctaac catgtcatag aatag 645

<210> 1048
<211> 435
<212> DNA
<213> A.fumigatus

<400> 1048
aatagcgatc gggaagtcaa ggctgttcgc tcaggcaaag tagctatgat ttccgtcttc 60
gatatcacgg tcggtgatgt gctccacttg gaacccggcg actctgttcc tgcagacggt 120
attctcatct ctggtcacgg aataaaatgt gacgagtcct ccgccactgg ggaatcggac 180
gcgatgaaga agaccaatgg acacgaggtt tggcagcgca ttgtcaacgg gaccgccacg 240
aagaaactag acccgttcat gatctcaggc agtaaagtcc ttgaaggggt acgaacttac 300
ctcgtgacca gtgttggacc cgactcgtcc tatggccgta tcttgctctc tctgcaagag 360
tccaacgatc ccactcctct tcaggtgaat ctgggaacac ttgccaactg tatcggatgg 420
attagctcta agtaa 435

<210> 1049
<211> 684
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (489)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1049
ggcgaactgg gcaagggtga ctttcaacta tacccggccg gggtcttctc ctggcagcac 60
gacatgcgca tctacaacaa gacagatacc ggcatgatcc tgagtctgtt caacaacgcc 120
aataccccga ccgagacggt tgcggcttcg acggggttga gctatgcagt ggatttggtc 180
aaccgcacgg ccaagaccct tcggaccctg agcgacagca aggacgtcat ccacagcgtc 240
agccaaggca actaccaaca gctgagcgcg tggggccatg ttgtgctggg ctacgggtcg 300
attgccaagc tcaaagagtt tgacgccaat aacaagccgg tcctcacggc gcagttcggc 360
accgacaacg aggtggcctc gtaccggggg tacaaatgcg cctggaaggc gacgccgttc 420
tgggcgccgg cgattgtggt tcggcgggtg tcggatgatt ctgcgcaggt gtttatgagc 480
tggaacggng cgaccgagta tgacaattgg gctgtgatgg ccgcggacgc gccagactcg 540
gtccggacca gcattgtcgc tacctttaag cgcacgggct tcgagacgtc tggtacggtt 600
cgggggttga agacaaggta tctgcaggtg gttgctcgtc ggggagatat tcccttgggc 660
atgtcgccga ttgtcagtct ttag 684

<210> 1050
<211> 654
<212> DNA
<213> A.fumigatus

<400> 1050
agaccgacct gggatttgga tatggcaccg tccacattct cgacaatacc taccggggag 60
atctacacgg tgaccctgca ggggaacttt gtcaccccgg accacagcgt cccggagtcg 120
ttcattgacc tgcacgagag tcacatctcg gaccgcaata cgttgctggt cacggcctac 180
aatgtcaccc agcagtccct gacgtcgatc gggggcacgc cggaggatta catgctggac 240

agtttgtttt ttgagattga cattgctacc aatgagattg tgcattcgtg gagcgcactg 300
gagcatgtcg accagattgc gttgacggat tccaagcagg ggattgacat cgatcatgga 360
acgcatgagc agccatggga tgcgtatcat atcaactcgg tggaactgtt tgacgagggg 420
tatctcgtct cgctgcgtca ctactggtct gggtattacg ttcatggcaa tgggacggtc 480
atgtggcaat ttagtgtatt ccccttcccc ccttcccctt ctttttttg gggtatgtta 540
gatactgacg agactagggc gaactgggca agggtgactt tcaactatac ccggccgggg 600
tcttctcctg gcagcacgac atgcgcatct acaacaagac agataccggc atga 654

<210> 1051
<211> 576
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (8)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1051
cctggtgnta gtatgtccac ccccgtcgag gagcaccctg ctcctagata tatagacgaa 60
aagaaaaaag agaggttgga tgatgttgac gtctccgcgt ccgatgatgg cacctatgtc 120
catgatggct ctgccgtcag taaccacaat cacctcaggg ttgacacctc ctacgatgac 180
acccagagat tacccctgcg ctcaccttcg gccgcgcgag aacgatccct gcgtctagag 240
gatgacctgg ctttgcttga ggcggagcgt gtcgcatctc gttcgaccca tgaggagatg 300
gaaaagggaa gcaaggcgga gtctatctcg cgaatccgtt cgcatcgctc gcgcaatgtc 360
gacgaatttg acgaagccac aaatccactg cacgagaagg ccgccgttta caacccgcct 420
gaaaatccaa atacgaagat ttccaagttc attaagaagg ttcacgagtc gagtttcatc 480
gttcgctata tcacctatat cgtcccgctg gttgtgatcc ttctcattcc cttacttgtt 540
ggggctttgg cctttcctga tgccaatgtt ggagga 576

<210> 1052
<211> 519
<212> DNA
<213> A.fumigatus

<400> 1052
cctgaccgag atattgaaga agtcatgcct ctcactgaag agcaaaagca gcactggctg 60
gaacacggct tcatcaaaat ccctcagtgt ttcaccaagc aagatgccga caactggaca 120
gcctccatct gggctcgcct gggcatctca ccgacggaca agtccacttg gaatactgaa 180
agagtcaaca tgcccggcca tacagttgtc gacgtgaagg actttgcacc caaggcatgg 240
gatgcgatct gtgagctcgt cggcggggaa gagcgcgtaa cggattggtg caagggctgg 300
cgagactcgt ggatcatcaa cctcgggaaa cccgaataca agcccgatga tccgttggac 360
ttccgcacct tagacaactg gcataatgat ggagactttt tcacgcattt cctggatagc 420
ggcgagcaag cgcttctagt gatcccctta ttcagcgata tcagatccaa gggaggtgga 480
actgttctat gcactgatgg aatcggcctt gtcgcttag 519

<210> 1053
<211> 474
<212> DNA
<213> A.fumigatus

<400> 1053
atgaggggct cttcgtggat ccttatgaat caaagtgcga cccctgaaaa tctgcggaaa 60
tcgttcaagg tgactgaccg atttttttcct agggacgtaa ttactggtct gttgcatcag 120
attccgaaga ttttcgccca caataagaag cctgagcctg cactgcttcc aacattgaat 180
gcggctctct ccgctctaca agccacagga gggaaaatca tctgtgccgt ggccaccttg 240

cccacttggg gcccgggggc attggtgcga cgggaagatc ccaaggtcca tggaacggat 300
gcagagcgga agttgtttac cacggaaaat gcagcatgga gatcgacggc cagtaaactg 360
gcgggagctg gtattggtgt acacatgttc aacccggcgc ctaatgggga cttatatgga 420
acgttgctac gatcggtgag tctcttttgt cttggaaatg aggtgtccca ctaa 474

<210> 1054
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1054
tcgcagctac accaggatac ggaccctcaa gcgctgagca agttcaccgt ccctgttatc 60
caacagctca gacaagcaga aatgacggtg aaagttggca tcaacggatt cggccggatc 120
ggtcgcattg tctttcgcaa ttccttctcc catgaccaac tccaagttgt tgctgtcaac 180
gacccattta ccaatcccaa atatggcatt aggtcgcacc catccctcac caagttctcc 240
caattcccga atggattgaa caagggaatt ggtcccataa gcaaa 285

<210> 1055
<211> 834
<212> DNA
<213> A.fumigatus

<400> 1055
gttctgctgg tcaaccagga actcggcggt accggcgttg cggtagttga ccgtcttggc 60
cagcttcacc gcatccgcca aaatgcggtc gcgcacatcg ttcggcagat ccttggcggg 120
ggcgatctca acgaccttct ggtgacggcg ctggacggag cagtcacgct cgaacaggtg 180
gatgacgtta ccgtggttgt caccgagaag ctggacttcg atgtgcttgg ggcggtcgag 240
gaaacgctcg acgaagacgg tgccgttacc aaacgcagag cgggcctcgg aggtagcacg 300
ctcaaaggcg tcccgcagat cggcctgatc gcggacgaca cgcataccac ggccaccacc 360
gccgaaggca gccttgatga tgatggggaa gccataggtg tcggtgaagg ccttgacctc 420
ctcgtagcgc tccactggac caggagtacc ggggaccacg gggacgccgc acttgatggc 480
caattgacgg gcagagacct tgtcgccgag ggcttcgatg gtctccgggg tggggcccac 540
aaagacaata ccagcattct cgaccttgcg agcaaactca gcgttctcag acaagaagcc 600
gtaaccgggg tgaatcaggt gcacaccatg ctcctgagca atcttgacga tctcatcaat 660
ggccaagtag gccgcaacgg gggtatattg accgcgatga ccgatcatgt aggcctcgtc 720
ggccttctgg cggtgcatgg acagacgatc ctcatacgag tagatggcga ctgtctggag 780
agaaagttcg tgggcggtac ggaagatacg gatgggaatt tcaccacggt tggc 834

<210> 1056
<211> 834
<212> DNA
<213> A.fumigatus

<400> 1056
gccaaccgtg gtgaaattcc catccgtatc ttccgtaccg cccacgaact ttctctccag 60
acagtcgcca tctactcgta tgaggatcgt ctgtccatgc accgccagaa ggccgacgag 120
gcctacatga tcggtcatcg cggtcaatat acccccgttg cggcctactt ggccattgat 180
gagatcgtca agattgctca ggagcatggt gtgcacctga ttcaccccgg ttacggcttc 240
ttgtctgaga acgctgagtt tgctcgcaag gtcgagaatg ctggtattgt ctttgtgggc 300
cccaccccgg agaccatcga agccctcggc gacaaggtct ctgcccgtca attggccatc 360
aagtgcggcg tccccgtggt ccccggtact cctggtccag tggagcgcta cgaggaggtc 420
aaggccttca ccgacaccta tggcttcccc atcatcatca aggctgcctt cggcggtggt 480
ggccgtggta tgcgtgtcgt ccgcgatcag gccgatctgc gggacgcctt tgagcgtgct 540
acctccgagg cccgctctgc gtttggtaac ggcaccgtct tcgtcgagcg tttcctcgac 600
cgccccaagc acatcgaagt ccagcttctc ggtgacaacc acggtaacgt catccacctg 660
ttcgagcgtg actgctccgt ccagcgccgt caccagaagg tcgttgagat cgccccgcc 720

aaggatctgc cgaacgatgt gcgcgaccgc attttggcgg atgcggtgaa gctggccaag 780
acggtcaact accgcaacgc cggtaccgcc gagttcctgg ttgaccagca gaac 834

<210> 1057
<211> 549
<212> DNA
<213> A.fumigatus

<400> 1057
ttcaccccgg ttacggcttc ttgtctgaga acgctgagtt tgctcgcaag gtcgagaatg 60
ctggtattgt ctttgtgggc cccaccccgg agaccatcga agccctcggc gacaaggtct 120
ctgcccgtca attggccatc aagtgcggcg tccccgtggt ccccggtact cctggtccag 180
tggagcgcta cgaggaggtc aaggccttca ccgacaccta tggcttcccc atcatcatca 240
aggctgcctt cggcggtggt ggccgtggta tgcgtgtcgt ccgcgatcag gccgatctgc 300
gggacgcctt tgagcgtgct acctccgagg cccgctctgc gtttggtaac ggcaccgtct 360
tcgtcgagcg tttcctcgac cgccccaagc acatcgaagt ccagcttctc ggtgacaacc 420
acggtaacgt catccacctg ttcgagcgtg actgctccgt ccagcgccgt caccagaagg 480
tcgttgagat cgcccccgcc aaggatctgc cgaacgatgt gcgcgaccgc attttggcgg 540
atgcggtga 549

<210> 1058
<211> 873
<212> DNA
<213> A.fumigatus

<400> 1058
gacgcccagg ccaagctgaa tggtgaactg tcactcgaca acgctgatct actgttctcc 60
tacggcaaag ccttatacaa cgtggcggtg agcaagagcg atgtcctagg gtcaaaagta 120
gctggagagc ctcaagctca aacaaatgat ttacctccaa gcggctccaa atcattcgcg 180
catgtgcctg gcgagagcat tatcaaaaat gcgatcgcta gtggggtggc taagcaagaa 240
cattccaaag attctaaatc cagttctgga aagactttga accaggcctt tttccaattc 300
agtggcgatg aaaatttcga tgattcggat tctgaggcag aagagggtga tggaggcgct 360
gatggtgctg acgatgacga tgacgatttt gccaacgcct ttgaagtcct ggacttggcc 420
cgtatactct accacaagaa attggccgca gtagaggaat catgtgagga gggaaaatct 480
gccggcctgc tgcccgatgt caaatacatc aaggagcgtc ttgcagatac ctacgatcta 540
caggcggaga tttcacttga aggggagaga ttcacggatg cggtggcgga cctcaggact 600
gcacttgatc tgaggcagtc actgttttcc atggaagatc cttcccttgc tgagtgtcac 660
tacaagcttt cgctcgcact agaattcgca tctgtcaata attccagcga aggcactact 720
gaaggggaca gtggccgccg tggcaaggtc gatgaagcta tgagagaaga ggctgcgact 780
cagatggaga aggctattga gagctgtcga gccagaatgg cccaagtaca gaagaagacc 840
atgatgaccg tttggaggac agtaacgcag tat 873

<210> 1059
<211> 270
<212> DNA
<213> A.fumigatus

<400> 1059
gtattgttta tcattctgct tcttgcctgg aaattaatgg gacattctct agtcggtctc 60
ggatacctca aggtgtttgt ccctccagaa aagatcctaa gatggattga aggaaagctg 120
aacctgctgg gacgactgcc acattatgtc tcagtagatc agaaaaccta tggtcggtat 180
ggtgttcttc ctacggcgac tgcggctgta gggggtgagc ggcccactcc tctgagctat 240
ctgggtacga atcagcgcct cggtccttga 270

<210> 1060
<211> 843

<212> DNA
<213> A.fumigatus

<400> 1060
tttattgatg gccctgaagc ccctggtgaa gaccgggaaa ctgaattgcg caacatggag 60
ctcgctgaac aggaacgcaa gcgagctcaa caagaggagg acagccaagc accagtccct 120
ctcaaaacga acggggatgc tacttcccct gcggcggaac ctaatatcgg cctcgaaaag 180
aagccacagg ccggtcctgt gatgcgaatc gtgaatgggg agattgtgct tgatgctgct 240
tccctccatg ttgaccgtta cgcagatgcg gcgagaaatg cgggggatct agaggatgta 300
gtagaaagct ctcttactcg gaagatcaac caagccacct ggggaaaacg gtccaagaca 360
gaatcatggg atgaagagat gacggaacta ttttacagag gcttgcgaat gttcggcacc 420
gatttcatga tgatcagcaa gctgttccct gggaggtcga gacgtcaaat caagctgaaa 480
ttcaacaatg aagagcggcg cgctccagaa cgaatcaagg aaacgctgtt gggtccgcgg 540
gaaacaatag atatcacgac gtattccgaa atgaccaaca ctgtgtatga tgaccccaaa 600
gtggttcagc aagagttgga tgaagagaag aaacggattg aggaacaaca tgcaaaggaa 660
aagcaggctc aggaggattt gcttcgaaat ccagacggca cgactggtgg tgatgccgca 720
ccagggctgg ataacgccag taacgtgccc gtaaagggca aacgaaacaa caaaagacag 780
gcgatgagag ctatgggagg cggaactgaa gaagtgattg gcacgattga tgaccttcct 840
tga 843

<210> 1061
<211> 792
<212> DNA
<213> A.fumigatus

<400> 1061
ccgctgaaca ttgtgctagg ccaattcttc gaccttctaa acatcttcaa cataaatggc 60
taccctccg agacgcacgc atacctcttc aacggcgact tcgtcgaccg tggttcgtgg 120
tccaccgaga ttgccctgct cctctacgca tataagtggc tccgccccaa ccgcatcttc 180
ttgaataggg gcaatcacga gaccgatgac atgaacaagg tctatggttt cgagggtgag 240
tgcaaagcca agtacaacga acgcctgttc aaggtctttt ccgagtcctt ctccgcgctg 300
cccctggcca cattgattgg cagcaagtat cttgtcctgc acggtggcct cttctctgac 360
gacaaggtca ccttggacga tatccggaaa ctgaaccgcc acaaccaacg acagcccgga 420
caacaaggcc tgatgatgga gatgctctgg acggaccctc agaccgaacc gggccgcggg 480
cccagtaaga gaggcgttgg cctgcagttc gggcccgatg taacgaagcg cttctgcgag 540
aagaacgggc tagaagccat cattcggtcg cacgaggtcc gcatggaagg ttacgaggtc 600
gagcacgacg gacggtgcat caccgtcttc tctgcaccca aatactgcga cactaccgag 660
aacaagggcg cattcatcaa cattggaccc gaactcaagc ttgacttcaa ggtctttgaa 720
gcagtgcctc atcctgacat caggccaatg gtaaaccctg tcctttcgtg tctgctcaaa 780
ttacaaagct ga 792

<210> 1062
<211> 258
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (171)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1062
tcattccttc ccacgatgac cgtcgactcc aagccacaac tccagcgcct cgccgccgat 60
gccgacgttg accggatgtg caggctcctc gaagaggacg gtgcctttat cctcaagggc 120
ctgctgccct tcgacgtcgt cgagagcttc aaccgcgagt tggacgtgca natggccatt 180
ccacctccca aaggagaacg gctgctggcg gaccaatccc cccctcactt taaatatgtc 240

cccgacgttg cccccact 258

<210> 1063
<211> 534
<212> DNA
<213> A.fumigatus

<400> 1063
tgctcaggaa tctccccatg caccaactgt atcaagaaca acgttgaatg taccttcgac 60
gccagcgccg ataaacgccg ccgcggcgcc ctaaagcgca aggtcaacca gctcgaagag 120
aaggaggagc tcctgattca gctcgtcagc atcctccgcg agagcggcac tcggcgcacc 180
attcaactcc tcaacctcat ccgcagcaac gcctccctgt ccgaaatcca actctacata 240
gatacgcagc tgaagtccga gctggagcag acaccggagc tcatcgaagt atgcaatgag 300
atacaacggt ttgagccaat ggggtcgcgg tcgtggcggc gtattctcga cgcgcagagg 360
gctttcgtag agcccttgtt ccgtgtgccg gcggccccgt ggacgactgt caccgcggat 420
gacgagtttg tatcgcattt gatttcgttg tggtttacgt gggttcatcc gttctattac 480
tggatcgatt ttcaccacag gggccgaagg atccgcgcta tgcgtctggg gcaa 534

<210> 1064
<211> 591
<212> DNA
<213> A.fumigatus

<400> 1064
accggcaaga tggcttcacg agagcgatct ccccccttcga ctgcatctac caccacaatg 60
cggcctccaa cgacagctct tcttatctat ccagtgacct tacttgtggg atcgctcttt 120
tccatccttt ctcccacagc ccgaggctcc cgacaaagcc gtcccgctcg tcccgcgtct 180
ctggcccccct ccatcaccac cgacgtgaac ctttcccctc caaacccggt caactacttc 240
gcccgcaagg acaacatctt caatctctac tttgtcaagg tcggctggat ctggaccaca 300
ctcgcctttc tgtccctgct cgtctcgcaa cccgcctaca cggccccttc cgcacaccaa 360
ccgcgtcgac tcgtccaggc cgcgctccga tacagcgtgg ctacgctagt gtggtaccta 420
atgacacaat ggttcttcgg gcccccaatt atcgaccgca gttttgtgat tacgggcggg 480
aaatgcgagc gcgttgtggc ggagacgtcg ggcaatcccg gcggtggctg ttgcgcaggc 540
gggatctgtt tctgcgggtc tggaaaagtt gtttacggcg gcagcttgta a 591

<210> 1065
<211> 231
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (132),(225)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1065
ttacgggcgg gaaatgcgag cgcgttgtgg cggagacgtc gggcaatccc ggcggtggct 60
gttgcgcagg cgggatctgt ttctgcgggt ctggaaaagt tgtttacggc ggcagcttgt 120
aaggccggtg gnggttcgtg gacgggggggc catgatgtga gtgggcatgt gtttatgctt 180
gtgctggcga cgtcgatgct tggttttgag gctgttgggg cgacnagggc t 231

<210> 1066
<211> 441
<212> DNA
<213> A.fumigatus

<400> 1066
tcaccaatcc aaaccagatg cagctcggaa ggaaccaggt ctgctgaaga cttcaaaccc 60
atcgatcctt caacttctct agaacaggcc ctcgctgggg ctgtaactga cactcaaccg 120
ccgtctaccg cagagacagc gcaggctgga gacaaacagg aacacaattc atcttcgaca 180
ccgacccatg atgacaaggc taatactgga gaatctacgg aacctgcacg taaaaagcag 240
aaaattggcg aagagaacgg tatggccaaa aacggtcaaa cagctggtcc ggccaccgat 300
aactcgacct cgaatgtcac tggcaacgat gagaaaaagt cagggcgctc taagaaagta 360
aaagacacgg cgaagcgtac agttcattca gatggtatcg ggagtcggac ccgcagtcgg 420
accaaggctg cagcgacttg a 441

<210> 1067
<211> 519
<212> DNA
<213> A.fumigatus

<400> 1067
aatgacgcgc tggaagatat cgacgagttc aatcccggat tccgttcgca gtcccagcaa 60
accatgcgca tgtccttttc ctcatcacgg agccggaccg tccgcaatgt acccaagcag 120
cgtgctgcat ccgccatgtc tgtacggcag actgtcaacc cgggccgtgt atcacccgcg 180
ctcagcgcac cgtcacaggg ctcggggctc caggtccctg atgacggccg ccaggagtcg 240
acatcccgtc tcagcacgat tctcaatacg acgattaagg gatcctttgg tcgcagaggc 300
cggccgggct atgccacttc cagtgttcac gaagggagtc ttcatgcgga cagcctgcac 360
gagcgggata gcgaagaaga ctttcggcgt atgatggaac aagactccga tcggctggag 420
aacgtccgcg cttgctgcga cggcaagcac gatgtcagct cactttccag gacaagtcgt 480
tatagcccac gcgtcaatcg aatgcactcg catcactga 519

<210> 1068
<211> 486
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (52)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1068
aggaggggaa tgcaatgcca atgttccatt caggtggggg aagtggttaa cnagttcttt 60
cagttcggac ttggtgttgc ctatgaatac ggcttgatgg ggtgtccggt ggatcttcgc 120
cagagtttct tttggtatac gcatgctgca gcacaagggg agcaccagag tgagcttgcc 180
ctgagcgggt gtattctgac gggttctgaa ggcatacttc agcaaagcga cactgaggcc 240
taccttttggg cgcgcaaagc agccaccgcg ggccttgcca aggcagaata tgcgatgggt 300
tatttcaccg aagttggcat tggagtcgcc gccaatctgg atgatgccaa aagatggtat 360
tggcgggcag ctggtaagtc ctttcgcgcc ttctatcagt ggtctctatg tgtcaagcta 420
acgtatttgc tttaccctac cagctcaagg tttccccaag gctcgggagc gtctcgagga 480
aattaa 486

<210> 1069
<211> 711
<212> DNA
<213> A.fumigatus

<400> 1069
acctgggcta tccggacgat gctttcatgc ggaccgcttg ctacacggct ggtgttatcc 60
tggtcaaagg acgactcccc acggggcatc gcagccgcgc aatcgttgac tgtggcgctt 120
tcagatctgc cacgactgtg cttcctcgcg gtcgcgttct tttcgtttga gtttatcatc 180

tttggctgcg cagcgctgtt gcccacttac gtccgttatg ctggtttccc gcttgacgtg 240
caattctacg cccttaccgt actcaacagc atgagctttt tggggagggt gcttcccggt 300
ttagcagccg atcaactcgg tcggttcaac attctcctgg cgctggttgt catgacgctt 360
ttggtgatgg gttccgtgtg gctcccgttt ggctctcgcg gccaagctac attgtacgcg 420
gtggtcgcca tttttggctt tgggtctggg ggatggctgt ccctggcgcc tgtatgtgcg 480
ggccagctgt gtcagacgga ggaatatggg agattctacg ggaccatcta cagcgttgct 540
gcgtttgggg tgttgttgac tgttcctgtg ggaggagagc tgctgcagtc gactactccg 600
aaggtgctga tcggtttcta ctcggctgtt ctcatggtgg gactggtgag cgtagtcatg 660
gctcgatggg ccttgttgga ttggaggtgg aagtggaggg tcaagctgta g 711

<210> 1070
<211> 306
<212> DNA
<213> A.fumigatus

<400> 1070
gatcctaccc gcgacgccgg cctcgggacg tggtggcatc taggctaccg tttgatgcac 60
gatatctccc acccagacca agagctgggt aggatctatt ggcacaatgg caataccggc 120
cttcagaccc gggagctctg tcacactact ggtaccggaa tctggttcag tcagcattct 180
gcttgggatg ggatattact caagagccta tatacgtacc tatgtatagt gacactgtct 240
agtttgtcat atgtgagcgt cctgtccggt ctgacgcgtt cgagcatgtc gaataagata 300
ttgtag 306

<210> 1071
<211> 840
<212> DNA
<213> A.fumigatus

<400> 1071
atggatcggc tctcgaacac acaaaattca tctgtctctc ccaggactcc attgcacgct 60
aaccagcagc cagctgtgag agcctttcca gctacagagc ctgattggta tatgagccac 120
aaggtatacg cgccatcaca gggaacttca gggccaattt tcgtcgatga tcagactatg 180
tccacctggc ctctactggc tgaccaacaa ccctcaccga gcccatcgga tcgccatacc 240
tctcacaatg gctcccccgt agctatgtca ggttccaatg ctttccatca gcgccgcatc 300
tcgcagggga tggacacagc attagtcaac gcgacatcca cagtgacgca tacttttagc 360
ggcataccat ttgccgtcac cactgaatct tgcacgccag agcaagtctc tacaacggcg 420
gcaacagcac ctgttcagtg gaccgtccct cattggtacc cactgcctcc gggagccatt 480
tctcaacctc cgccagtcca attttatcct cctgctcctc caagccctcc gtcaacaagc 540
cccgtggacc ctacaatgca agcaccgcac tcacaggttg acttctctgc atatttgccc 600
aactattctg gcccttctca atatcaggtg tgcgaaaact tcgacagagt caagtcgtgg 660
aaacgagtta tgtctcttca atatacacct gacacaacgg ctcttaaccc acgagctgaa 720
cgacctgagg ttgctaatta tgccgactgg aaagcgtctc tgccctccca aatatctagc 780
tttcattccc atggaatcct ggaatccccc gtctccattt ctccctccat gttgcaaaat 840

<210> 1072
<211> 489
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (471),(478)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1072
aaaaaaaggc gaagtgggtt cggatttaaa agatcaaccg ctcccacact gacccttcgt 60

tcaattttct tgccctccat ctcccccaac tcttccacct cctttcaggt gctctcactt 120
tatagtctgc atctttcttc aatttttctt tgttcatatt cagtgcaaat tgaagctata 180
tgtcggacga agtctacgaa ggcgccatcg gcattgacct tggtaaggaa cctgcattct 240
ttcttttatt ttttaaaaat ttattctttc tttaagaaaa agggctatca catataccat 300
aacacgattt tcacaaagaa attgagtttc gctaagacat caatccaggc acaacctact 360
cctgcgttgc caactatgaa ggcaccaacg ttgagatcag tatgtttcct tgaaggcatc 420
acattcggca ggaataggcc cggccatgga tcgtttgttc atcagaagca ngggcggnaa 480
attaacctc 489

<210> 1073
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1073
tcttttaaat ccgaacccac ttcgcctttt ttttcacttt tttttttcaa ttttgttttt 60
tacttcgcct cccgtctcgt tttccccccc aattcagccc catggttgga gaaggtttcc 120
aatgtcaacg ccctggttat ggtattttca caacgggcct ggaaggtcca cgagtattgc 180
gctaaaaaa 189

<210> 1074
<211> 444
<212> DNA
<213> A.fumigatus

<400> 1074
ggcgggattc ctgatctttc gacgctcgtg cttaagaaat ccgaccctcc caccacacca 60
aactggttcc tggcccagct gtaccgtcag tcaacatggg tctatctgta ccgtactatc 120
cgcccgtcca agcccagtga taagatagct caggtggtgg acgatggtct ctcctacttg 180
gatcaactgc cgcaagattc cggagccttt agcattgtcc tgatgccctt gttcctcctt 240
ggttgctcag cattccttcc tcgtcagcga gaacggatac agaaaggctt cgagtccctc 300
aaggcttact ccaacctgcg caatatcgaa cccgccttca aggtggttcg acgggtatgg 360
gagatcatgg ataccaaaac cgaagacagc tgggactggg agaagatcat caacgatatg 420
aacatggact tcctcatcac ctag 444

<210> 1075
<211> 678
<212> DNA
<213> A.fumigatus

<400> 1075
cggctccgtt cagatcttgc ccagcacttc ctgatgaagg ccaatgtaac agcgattcgc 60
cgtgtaagaa agaccgataa caaccgtatt gcgagagcca ccggtgccac aattgtcaac 120
cgtgtcgatg acctgcagga gtccgacgtg ggaacgagat gcgggctttt cgagatcgaa 180
aagattggtg acgaatactt cacgttcctt cggaaatgcc aggaacccaa ggcctgcacg 240
atcttgctgc gtggtccctc caaggatatc ttgaacgaga tcgaacgaaa cctgcaggat 300
gctatgtccg ttgccagaaa cgttatcttc cacccgcggc tgtgccctgg cggtggtgcg 360
atcgaaatgg cggtgtcggt caaactgagt caactggcaa agtccatcga aggcgtccaa 420
caatggccct acaaggctgt ggcggatgct atggaggtta ttccccggac attagcacaa 480
aacgccggtg ccagccccat ccgtgtcctc acacgcttga gagctaagca tgtcgagggt 540
cagcacacct ggggtctgga tggtgactcg ggtaacctcg ttgatatgaa ggagtatggc 600
gtctgggaac ccgaagcggt caaactccag agcatcaaga cggcagttga ggtacgccct 660
aaaacaatac ccatttga 678

<210> 1076
<211> 213

<212> DNA
<213> A.fumigatus

<400> 1076
tgccattgct tgacaaggaa gccaagttat tgctatacaa acaagcatga aactaacaca 60
gacaaaatga ataccacttg ttcaattgtt tggttcgcca atgtcgatct taacggccta 120
attgagatag caaagctcgt aatcctagca ttttttttacc gattgaaacc ccaacaaaac 180
aacatggtca tccttgttcg tgatatcaat taa 213

<210> 1077
<211> 738
<212> DNA
<213> A.fumigatus

<400> 1077
accttgaagg aacgatggga aaaccgtctt cctaaaccac atgtctatcg cgtcagtccc 60
aaagatcgtg aatgcattga tcgcacgttt gaccctctac gtgaagctgg caaacttagt 120
cctgctaccg gtcatacccc ttcggcgtat ccagtcttcg ttgtatggaa aaccgtcact 180
gatcagaacg gccaaaccaa agaaaaggga cgtgtggtca ttgacttacg tggcgttaat 240
aaggaagtcg ttccagatct ataccctatc ccgatacaag aagacatcat taatatggtt 300
cgtggttgcc gttacattac ggtcatcgat gcctgtcggt tcttctacca gtggccggta 360
aagcgatcgc atcgaaaccg tcttgctgtc gtcagccatc gcggccagga gatattcaat 420
gttgcaatta tgggatttat caattctgtt ccatatgtcc aacgacaaat ggatcgactc 480
ctgaatgacc ttgagttcgc cagaacctac gtcgatgata tcatcattgc ctctatgaca 540
ttcgacgagc atctgaatca cctcagcact gtcctacagc gcttgcaaga catcggtatc 600
cgattggaac caaccaaagc attcgttgga ttcccaagtg ttcagctatt aggacaacgc 660
gtagacgccc taggtctgtc cactcctgaa gaaaagcttg ctgccattcg taccttggaa 720
ttcccgcgca acctcaag 738

<210> 1078
<211> 624
<212> DNA
<213> A.fumigatus

<400> 1078
atatcgatcg gcgggccaat tcagattgat gtctttgtct tttatctctt tatccgaccc 60
tctgcattcg cagtccgtcc cgtaatgctg tcctcgactc tctacgcagg gtggctcctc 120
tccctcgcag ccccagccct ttgtgtggtg caggagaagc tctcagctgt tcctagtggc 180
tggacactca tcgaggatgc atcggagagc gacacgatca ctctctcaat tgcccttgct 240
cggcagaacc tcgaccagct tgagtccaag ctgaccacgc tggcgacccc agggaacccg 300
gagtacggca agtggctgga ccagtccgac attgagtccc tatttcctac tgcaagcgat 360
gatgctgttc tccaatggct caaggcggcc gggattaccc aagtgtctcg tcagggcagc 420
ttggtgaact tcgccaccac tgtgggaaca gcgaacaagc tctttgacac caagttctct 480
tactaccgca atggtgcttc ccagaaactg cgtaccacgc agtactccat ccccgatcac 540
ctgacagagt cgatcgatct gattgccccc actgtcttct ttgggtcttc accacgcggc 600
tcgaagcaaa agcgatgcgg cagg 624

<210> 1079
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (186),(201),(202),(203),(204),(207),(210)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1079
ctttctaagg ataaccttac agcaggtcta gatacaatgg cgatttctaa agttcaacca 60
gctatcctag tctttattca ttctgtcttc tggccttact gtagcttcct taataagata 120
aataagagcc ttgtaattaa cctgtctgcc tatttaagtg tcttcaccac ggggctggaa 180
gattgnagtg ctaataaatt nnnnaancgn ccgtcg 216

<210> 1080
<211> 408
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (252),(389)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1080
caggtcgccg cggacgccat tgatatctat gtccttggcg tacagggtct cgacgagatt 60
gtggcctggt caaccgccag tgtgcatggc ctgccactgg cctccgctgt gccagggaat 120
acgttcgatc ctgtgcagct cacccatgag tgtaagcaga tctctcaggc cattatcaag 180
gccaaggggg caatgccccc tggaattggc gctatcatct ccatgatctg tttatctatc 240
ctcggcgaac ancggcatgt cctccccatc agccattttc aaaaagagta tggctgttgt 300
ttcactttgc cactggtctt gggaacgaaa ggtaattctc ttaacaattc ctatccggtc 360
aatgggggag gaatgggatg gaatcctcna gtcttcccca gcctttga 408

<210> 1081
<211> 639
<212> DNA
<213> A.fumigatus

<400> 1081
agcccgcaat cttcccttac atgtactctc acagattcag actgtacatt ttctactgcc 60
ttagttatca tgctctccac tgatgggcct cgcattggca ttatcggtgt aagccaggtc 120
ggcgctgcag ccgctaacgc gctgattatg aactcagttg cgcgcgaact catcctggtc 180
gatatcaaaa ctgagctccg aaatgcccaa gtccaagaac tctccgacgt cagccgaatg 240
agtggacgcg cagaaacgcg tgtccgagca gggacatatc acgaggccgg acagtgcgac 300
attattctca tcactgctgg ttccaagttc tctgtcggag aaaccagcgt gcaacacatg 360
taccacaacc tggggattgt ccggagcgtg atccaagcga tgcgcccctt ccgatccgat 420
gccatactca tcgtcgtgtc gaatcctgtc gatctgctga ccacactcgc gcagcagctc 480
tccggtctgc ctcgctcgca agtcatgggg tctggtaccc ttcttgactc ggttcggctg 540
cgtgggctct tggccaataa agttggagtg cgtgaggacc gattccaaaa cgtgatctgg 600
ctgacggttg cgatgacagg tcgccgcgga cgccattga 639

<210> 1082
<211> 225
<212> DNA
<213> A.fumigatus

<400> 1082
ccattgttgg ttgagtgggg tctggaaatg tatagccaga tctatggatg gggtactctc 60
tcctatggag tacactattt atttcacagc atgagaacat cccctgaagg agaaagctgt 120
ctatccctca tggctacttt ttacaacacc accgacagat atcaaggtac attgcaccca 180
aacactctca ctgccgagat cgtcggttct atatctccga gctac 225

<210> 1083

<211> 333
<212> DNA
<213> A.fumigatus

<400> 1083
agtaacaaac tcactctgta tccttcatct acgattgacc ttcaaattaa gaagcagaaa 60
agcagtgcaa tgcctccaaa gagaaagcgt tccacagaaa gcgacgtgca tgacgatgca 120
gcgcgcaaca agcgtttcgc gtacctgaag ccccaagtcc ggcaggtttc cgagcggact 180
atcaagtcga aatggacaac actccctgag cccgttcaag acaaggttcg tgatatgttt 240
cgagcgcttg aacggccagt tattgtgcgg cagccgaatg aacgaaaacg catcgaaggt 300
cttcaccagg cggctggaag gatccgatca atg 333

<210> 1084
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1084
ctcgtgactc ccgggaagct tcttcaagct cttctccttc ccctcagtca ccccgaactc 60
tccactgggt cttgcccaac aagctgcttt gacatttcat ccactattgc ttcccctctt 120
ttggtctccc tgtttattct cgtcgacctc ccgatctcca actccgcttg ctggttcgtg 180
tgttctatat acgtacaaca gctgtag 207

<210> 1085
<211> 450
<212> DNA
<213> A.fumigatus

<400> 1085
tcagtggact actttgcagc aataccctct gtctggcgat cttaccgaaa accatcgcat 60
cggctgccag accaaacgaa tcaaactgat ttctatccac agctttggtg caaacctcgc 120
tttaccacca gcatggccac cagtactgtc aaggagcccg ctccgcaacc ctctgtggat 180
ttcttgcacc gtccgtacac acgcgccgct ctgcccttca tcaatggtgg tctcgccggc 240
atgactgcca cggccgtcat tcagcccatc gacatgatca aggtccgctt gcaactggct 300
ggtgagggtg ttcgcactgg tcctcgtccc tctgcgtttg gcgttgcgcg cgacatcatc 360
gcctccggaa aagtgctcga cctttacacc ggtctgtcag ctggttgtct tcaccacggg 420
gctggaagga gccgcgctga gcgtatacat 450

<210> 1086
<211> 357
<212> DNA
<213> A.fumigatus

<400> 1086
tatgttcggg aaacaataga ttgcggtcga acggaaagcc ggactcacca gagaagtgag 60
gaagccatca gtccagctga catctccatt ctcgttcact tcgcggaacg ggcactcgtt 120
gcaaataagt tcgacatgct gttgctgagc agtgaaggct tccaagggat ggaaaccagt 180
gaaatcaccc tgtggaacga taatatcacc ctccatcttc gggacgacta caactgcctt 240
ggcgcccaga gcaacggcac cgccgaggag gaacgaacga aggttcattg tgtcaagcaa 300
caagttttaa aaagcacaca tgaggtaaaa cctacaacag aagggaaatt agaatga 357

<210> 1087
<211> 411
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (245)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1087
cagcgcgttt ccttccagcc ccgtcggtgt aagactgcga tgcagctaca gttagagcgc 60
ttcttcctga tccggaacac ggccgccgaa atgcggttcg tggatcagcg cagccggtac 120
ctggttgagg tgctgaccgt cccgtgggaa ttgacgggtg aggaggtcga gcagttgcgg 180
cttgaggcag aggcggagga ggagcaggct gaaaaggagc aggagcgagc gcgtatgagg 240
cttangaggc gtgtggagcg tgaggagaag gaccagcgtc ggatccagag gatgtgggaa 300
cgtgaggagc agtttaggga gaaggaggcg gttctgtgcc aggaagctgg gcgcagggcc 360
atgcgcgcta ttcagcgcaa acgcgtcatg aatataagca gtgaaatgtg a 411

<210> 1088
<211> 438
<212> DNA
<213> A.fumigatus

<400> 1088
cgcggcacct tcgacccctg tggtgaagac tccaccggag ctcaaggtgc ccaatatctc 60
acaggcactg gagacaaaca tacagcgatc cctgcagctg ggaagtcgtt ggcaggtcca 120
tctgttcctg atattctagc agctacacgt gcggatcttt ccgaagccca acgtgctcgt 180
tcggagttgc aggcccggct aactgagctg agcaccgagt tggagaagct acggaagaga 240
agcacgcaag atagcagacg tatccatgtt ttggagagtg aagtaactca tctacaaatg 300
cgtgtaaagg atagggacgc agaattgaag gggaaggcca agttactcga ggcatgtcat 360
tcattcatcc gccatgccgc cactcgtttg ctgacacggt cgcttcgtag gatttccaag 420
acgaactcgc ctctctga 438

<210> 1089
<211> 447
<212> DNA
<213> A.fumigatus

<400> 1089
cacatccctc caggagtctg gaccctcatc ttcggcgcaa tgattggggt ggaacggttc 60
accgtccgca aacttgccgg cgttattgct tccctgattg gaataatcct catctcccgc 120
gtagatctgt cgtcaacgga ctccccgccc ggagatgatg gcagttcagg taccttcccc 180
cacaagacga ccgccgagat tgctcttggc gacgccatgg ccgcattcag cgcagtcatg 240
tacggcgtct acactatcgt cctaaaaaga caagtcggcg atgagtcgcg ggtcaatatg 300
gtgctgttct tcgggctagt gggactcttt aatatgctct tgctctggcc gggattcgtc 360
atcttacatt tcaccgggat cgagccgttc gttctccctg ataccgggag aatatggact 420
atagtgctgg taaggaatac gtcgtga 447

<210> 1090
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1090
gggccaatgt gcgcccagcc ggcctttgta tccaaagagg agaagaacgc gtacgtggaa 60
gaggtcatca agatgctcga catggaggac tttgctgaag cagtggtcgg tgtgcctggc 120
gagggtctga atgttgaaca acgcaaactg ttgaccattg gtgtggaact ggcggccaag 180
ccgaaactgt tactgttctt ggatgaacca accaggtaa 219

<210> 1091

<211> 951
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (755)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1091
gacaatcttg ctctgatttc tgcttgtgct aattggtgta gtggtcttga ttcccagagc 60
tcttgggcta tctgcaactt cctccgcaag ttggctgacg caggacaagc catcctgtgc 120
accattcacc agcctagtgc catcctgttc gagcaatttg accagttgct cttcttggct 180
cgaggtggca agacagtgta ttttggcccc attggagaga actcgcagac gcttctcaaa 240
tatttcgagt cgcatggggc tcgccgctgt ggggatcaag aaaatccagc cgaatatatg 300
cttgaggttg tcaacgctgg caccaaccct cggggcgaaa actggtttga cctgtggaag 360
gcaagcaaag aagctgccgg ggttcagtcc gaaatcgacc gcatccacga gtccaagcga 420
ggcgaagctg aaagtaaaga tagtaccaat cccaaagacc gcgaacacga ggaattcgct 480
atgccgttct tcaagcaatt gcccattgtc accgtgcgag ttttccaaca atactggaga 540
ctacccatgt acattgcggc caagatgatg cttggcatat gcgcgggtct gttcatcggt 600
ttctcattct tcaaggccga cacttccctg cagggcatgc agaatgtcat cttctccgtg 660
ttcatgctgt gtgccatctt ctcctcgctt gtccagcaga ttatcccatt gttcatcact 720
cagcgtgctc tttatgaggt ccgcgagcgg cccancaaga cgtattcctg gaaagcgttt 780
atgattgcga acatcatcgt cgagattccc tatcaaatcc tgatgggaat tctcgtgttt 840
ggctgctact actacgcagt gaacggcgtg caatcctctg aacggcaagg gctggtcctg 900
ttgttctgca tacaattttc atctacgcga gcaccttcgc tgaatttgtg a 951

<210> 1092
<211> 273
<212> DNA
<213> A.fumigatus

<400> 1092
tggcgtcgag attacttcga tactgcttcg ttccacgtgg gctctaagga gtatcagggc 60
gggcgctggc atgactacac cttcactcat catcctttca tggaggccaa aatcgaaact 120
tcattctggt atgatggaga aactctgact ttgcgcgtag atacgctttg taggttcaaa 180
gaaaaggccc cggatatact agcttggggg tatgaagact cgctcgaagt ttccacacca 240
ggccaccaga aagtggccca gtgtattctt tga 273

<210> 1093
<211> 192
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (28)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1093
ccatggtatt cttcagctgc cgctgatnta aaaacctgcg acgttgaaca tccacgtgct 60
ttttggtcat ttgctagttc ccagatatct cgaaacaaat atatcgaagg aatgcagctg 120
gtcgtcacta tctgggtctt cccaggtgag cctaagactg ctgacgctaa gatgtccagt 180
ttgccaacct ga 192

<210> 1094

<211> 264
<212> DNA
<213> A.fumigatus

<400> 1094
attcagaatc ttcccacgga cgcacagagt atgtacctct ctaccgtgaa ggtccccaca 60
gtgatgatgg cgatctcccg ctccacaaaa aatcaatatt ctttcatgtc caataaccag 120
cgacgaattt atgcaattga gctcctggtt cgctcattgc attacctgat ttggctctct 180
tctaaggtac atatttacac aaaattgagt cctccaatat tcctctccac ctggttctac 240
cggaagcaag cccacccaaa ttaa 264

<210> 1095
<211> 765
<212> DNA
<213> A.fumigatus

<400> 1095
gttgggcgcg actgcggctc tttccggccc ttggtgaaga cagtcctgtt ttttgcgacg 60
cataactcgg cccaggagct cgaccttgac ctgtggccac ctagtgctgc tatgactttt 120
gctgcgcttc cctatgttaa gagcttttac agcgcagtct atcacagatt atttggcaag 180
ctggaaagga agtggattgc cgaggtgcaa ccacgccaag cagatatcaa cgagtttgat 240
gataatgcgc cacctgagca tccggaggga agaaacgatg ctgagaatgg ccagatattg 300
atggaaattg atctggagtt ccaagttgga atgggtaatg atgtacgtca gggcattctg 360
ggtctccatg ccggagaaaa cgcccagaac aacgggcaaa accaaggagg cggtcaaaat 420
gaaaacaatc tgggactcgc gaggccacac gacctcatac atgaaacaag caacctcccc 480
gatatcattc ttggggctct cgcatttcca gcaatctcgg catccatggg aggtctgctc 540
aagtatattc tccccaagtc gtggacaacc gcaccctcag ccttggagcg cggccgacct 600
ggtctgctgc agacgcgctg gggacgaagt gtcatcggag gatgcgtgtt tgtgctgctg 660
aaggatgcat tggtacttta ctgccgctgg aagcttgcac agacacatag aaaacgaaag 720
gtgctgaact acgaccggaa gaagaagaaa gtggtggacc actga 765

<210> 1096
<211> 579
<212> DNA
<213> A.fumigatus

<400> 1096
ccccaatggt acggctcttt ccagccccgc ggtgaagaca aggggggcgac ggtgattgcg 60
actgcgggga cagagcgcaa gagacaggtc gcgcaggagt ttggagcgga ctatgtgatt 120
gattactgca atcagaagtg gcctgaggag gtaaaaaagt tgtgtgcgca gcaccgcaca 180
gggaatggga aggcgggcgt ggacgtcgtg tatgatccgg ttggtatgat cgatgccagt 240
ctcaagtgcg tggcctggaa tgcgcggttg ctggtgattg ggtttgcggc cgggaaaatc 300
gagaaagtcg cgctgaaccg ggtgctgctg aagaacgtca gtcttgtcgg cttgcactgg 360
ggccagtacg ccaagtttga gaaggagacg gtaggcgttg tctggaaggg aatcttcgat 420
ctggtggccc aaggcaagtt cagagggaca gccttcacag acgaaagatt tgtgggattg 480
gagagtgtgc ccagagcctt gcaggctctc ggaagcagag aaacctgggg taaagtagtg 540
gtgaaggtca ttgacgatga ggcgaagagc aagctgtga 579

<210> 1097
<211> 189
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (40)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1097
gatgaaggat tggatgtagg cctacctatt ttttccacan taaatcgtag ccctcagcac 60
gcaacttacg ttttcggcct tatgactctc tgtttgtttg gaatcagcac ttttgccgac 120
atgagagact cactcacagc gacagacttc cagtacgtct gtatcttacc gtcggagacg 180
tgtaaatga 189

<210> 1098
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1098
gacgtgttca agttgttggg aagcgagcca gaatttaaga agcccgttat ggcactgtac 60
gaggggggcca ggcaagtctt gcacaacggc atgaggttta tggttctcag ccctgttgaa 120
cggtacgtga ccacgtcgaa tcaaggaaga cgacttggac taacatttca ccctttttt 180
tccagcatgt aa 192

<210> 1099
<211> 1029
<212> DNA
<213> A.fumigatus

<400> 1099
ccccgtggtg aagacgtctc cttggagcct attccaagct cgaccgacac gttctggata 60
cacatacaca tcgccaaccc ctccgcattt gtcgaacctg acagctcaat catggaatac 120
gccgccgtgc gtaatcagac tctctatgtc cccgagcgca catacccgat gctgcccagc 180
tcattgacac agaaccattt cagtttggct cctggtcgcc ctactctcac attcagtgcc 240
aaaatgaatt tgcagggtga agttctggaa acgaaaatcg ccaatggcat tgtcagaaac 300
gtaatctata ttacgcacga caagctacgt agtctttttg aaaccaccac tggatcttcg 360
gacaccctga cagtgggagg cactatcacg cagccgcatt ctcgggaaga gttacagagc 420
tcgctgacac cagaagacga acgtgctttc cataccttgc gtaaactgat gctggcattt 480
cgtgaatatc ggctcaaaaa cggtgccatg gagtggccgt cgcctgctga caattcagtc 540
tctgtctttg caggaacggc gcccatgaaa ccctacacca tggatatcac caatggccgc 600
tatcacttgg gcgatccaat catccagttg cgcttgcagg atgtcgaccc gcacgaagta 660
cctgacctca ccaagcgaaa tctcgtctcg accttgatga atttcgcttg ctggatctct 720
gggaaatggt gtgcagagcg caacatccca gcagtttacg acggaacatg ctatcacccc 780
gaatacccga gactaacgaa cgaaaacatg gctgaatatg gaggagaagg atggctgcac 840
ttcacacccc ccaagggtat ctcctcatcg acccccatcc cacatattcc cctcggcctg 900
gacgcttata tcaaatccac aagcccactt cggcgatacg tcgacctcct cgcacactac 960
cagatcgaag ccgcgctgcg cttcgcgcac gcacacgggc gcccttaga cgcctcgaaa 1020
gatacctaa 1029

<210> 1100
<211> 186
<212> DNA
<213> A.fumigatus

<400> 1100
cccgtggtga agacgtctcc ttggagccta ttccaagctc gaccgacacg ttctggatac 60
acatacacat cgccaacccc tccgcatttg tcgaacctga cagctcaatc atggaatacg 120
ccgccgtgcg taatcagact ctctatgtcc ccgagcgcac atacccgatg ctgcccagct 180
cattga 186

<210> 1101

<211> 426
<212> DNA
<213> A.fumigatus

<400> 1101
tcaataccgg ggaagacttt gcgcaaattc ttgttgttca tcagggcctt gatctcggca 60
gaattcttat ccagatcccc attcacgctt gtgtcttcgc tggctgtttg tgtggaagag 120
gacgaagccg aggaagccga ggaaggctcc tcgttgcctc tgtggcctat tgtaccaccg 180
accgcacctc ccacgatggc cccaatgatg atgaaagcca ggatcgcccc cacaatccat 240
ccgcgcttct tgttaccccc tcctggcttc ggtttcaccc agcgaccctt ctctccagcc 300
tcgagaccag ctcctgggac cggtccgtac gatgtatcgg cagcactctt gcccccgaaa 360
agccctccca gatttcccaa aaccccaccc gctgcggcac ctcccgccgc cgcaggaatg 420
gcctga 426

<210> 1102
<211> 798
<212> DNA
<213> A.fumigatus

<400> 1102
atatcgcttt gggggcagcc gctgcccccg ctggacagtt ggaccccggg tcaatccgtt 60
tcgcatctta gctcgacgaa tccatcgcaa cgcaacctct atgatatccc atatcaggat 120
gtaggggtc tgaacgccgg tccctaccaa cggcattcgg cttatagctc gaacgatctg 180
cctgttgata tcaatccaga tgagatcgtc gatgatggtg atgacggttt tgtgccggcg 240
ccgaactcag gatctggtgc tcgcaagtct caggccattc ctgcggcggc gggaggtgcc 300
gcagcgggtg gggttttggg aaatctggga gggcttttcg ggggcaagag tgctgccgat 360
acatcgtacg gaccggtccc aggagctggt ctcgaggctg gagagaaggg tcgctgggtg 420
aaaccgaagc caggaggggg taacaagaag cgcggatgga ttgtgggggc gatcctggct 480
ttcatcatca ttggggccat cgtgggaggt gcggtcggtg gtacaatagg ccacagaggc 540
aacgaggagc cttcctcggc ttcctcggct tcgtcctctt ccacacaaac agccagcgaa 600
gacacaagcg tgaatgggga tctggataag aattctgccg agatcaaggc cctgatgaac 660
aacaagaatt tgcgcaaagt cttccccggt attgattaca ccccgtgggg tgtccaatac 720
cctctgtgtc tcaagtatcc tccatctcag aacaatgtga cacgggatat ggccgtgctc 780
acgcaactaa caaagtct 798

<210> 1103
<211> 324
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (110)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1103
cccagacgta cccagtggcc acaaacagag gccgacggat ttcggacata ccatgttatc 60
atgtatgaca ttgatctttc ggatagagat atcctgtcga gcctgacagn tacagcattt 120
cgcgtaaaga ccgaggaatc gtggcaccta accacattga atgataccga cagcacaatc 180
aacgagatgc aattggagtt attcagggaa caatgggaac gttacaaaga aaatccttgg 240
gataccgaga tgagagggca gattttcttc cgccaagaga cacagattca actatttgag 300
cgcataatcg accttgagga gtaa 324

<210> 1104
<211> 474
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (29),(35)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1104
gccatagaca acacaggcac cccaccccnt acgcnccaca ttaacgccaa acgcaaaaaa 60
aaaaatgcag atgcccttcc tcaaagggcg gcagcggccc gtacaacatc atcggcgggc 120
ggtgcccaag gcgccgacga caaggtcatc cagcacaact ccggcggcca ggtcaacatc 180
gacggcttca ccgtctacga ctttggcaag ctctaccgct cctgcggcaa ctgcgacgag 240
cagtatgctc gcaccgtgac tatcaagaac gttgtcgcga actccggcaa gaccctggtc 300
ggtatcaaca gcaacctggg cgacacggcc tccatcgaca gcagcacctg cgccaccgat 360
gtcaagaaga tctgtgtgga gtataagggt aacgacaccg gtgcggagcc tgaggagatc 420
agcgagggcc ctagtgatgc ttgccagtac tcggagcctc tttcctcttg ctag 474

<210> 1105
<211> 573
<212> DNA
<213> A.fumigatus

<400> 1105
gagcgctgtt ccttccagcc ggcggggttg aagacgaatc ggtacgcgga gctgcctgtc 60
tctgaactcc ttttcgagtt ggcaagtcca tgtgatcccg agtccgtgac atcaactgga 120
ttatgtccca ccgaagacgg gatcggcgag attatcagcg atctgctggt agccttcgtg 180
atcaagagtc ttctgacggt ggtgacattc ggcatcaagg tgcccgccgg aatctatgtc 240
ccgtctatgg ttgtcggcgg tctcatgggc cgcattgttg gccatgtggt acaattcttg 300
gtggtaaagt ttccaaactt ctttctattc tcgacgtgtc cggtgtactc gggcatggag 360
tcctgcgttg ttccaggagt gtatgccatg gtagccgcag gggccaccat gtgcggcgta 420
actcgtttgt ctgttactct ggcggtcatt ctgttcgagt tgacgggcag cctggaccat 480
gtcctgcctt tttccctggc agttctttgc gccaaatgga ctgcagatgc cattgagcct 540
cgtagtatct atgtaagtct agcgcccata tga 573

<210> 1106
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1106
gttggcgaca gcattgatga tatgactgcc ggtcatacgg caggcgcagc gactgtgctg 60
cttgtcaacg agcacaatac tcatctcaag gaccacgctc atacggacct ctgtatcgag 120
cgtttagacg agctgattga catactagaa aacggtttcg ttggtcaccg gcgagataag 180
ccacccacaa gtgacaggga tgaatag 207

<210> 1107
<211> 462
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (97),(112),(113),(126),(148),(245)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1107

agacagcgag gacatgatgc ccagggcagg ccgccaaacc ggcggtcgga acgtgaacgc 60
gaacgccaac cgcccaaaca tccgaatcgg cagcggnata gggagagcaa gnnaccttgc 120
tcccgntggc cttcgcgctt cgaccggnag acccgccaga cgtatcgaga ccgtcaggac 180
tatgggttcc acaattcccg ccagcgctcc ctgtctccca acgcgcgctc gagccagggt 240
agagntaatg atcgccggca gccgccgctt cgctcgcctc ttcggaatcg actggagccg 300
tcccgtcgga caagaggcgg aggaaatggt gggagtcgag acggtcgtgg cggacggggt 360
ggtgggaaca aaagaggtgg tgccagcgga acttccaacg gagatggcta tcgcccgatg 420
ccgagtgctg cgaaaaagaa ctgggacagg tacagactat ga 462

<210> 1108
<211> 300
<212> DNA
<213> A.fumigatus

<400> 1108
ttgagccggc cgacgcaatg tatacgtgtc cggatcgcgg agtgtgtggt tcgggggca 60
gccagcgctg cggacaaggc tggggcgtcc aagcttgccc gccagccgag ttacgatacc 120
aactactttg ataccttgga gcagagtgac ggtggtgcgc ttgctcctgg tgacaaggcg 180
cttctggatc aggtcgggga cgctctagct cggctgggca gggtgaagcg tgtgggattg 240
gcggtcaagg agaagcagga ttttcttcgc tcgtggacga aaacgaggcg gacgtggtaa 300

<210> 1109
<211> 564
<212> DNA
<213> A.fumigatus

<400> 1109
acaacggata aagcttcatc tcgactttat ccgcacttct cctggactct ttatgaaggg 60
gcagtttccc accgagatga ctgggcaatt gtttcattgt cgaagataat agacaaaatg 120
aggatatctt ccgcgcttct tgcgctgggc ctcctccctg aagcgctctg caagagtgtc 180
catcccgcag aaacatacaa atcctgccaa aggatcaccc ctgatcctct tcaaggctgt 240
ccccatggca ctgtatttgt cagccagacc gaccatcggg ctcatttcaa gtccatccag 300
gcggccatcc actcgctgcc caatgatacc tcgtctcatg tcatccttat cggcgctgga 360
acttatgtgg agcagctcaa cgtgacacgc tccggcccgt tgacgctcct gggccagtcg 420
aatcgccccct ggcagcggga gagctatggc gatatcaacc ccaacactac cgtccagaac 480
gatgtgcaaa tctactggaa tgcagctaac cacaacgccg cattcccggt cttcaccggc 540
cgactggccg gacatcgccc caac 564

<210> 1110
<211> 858
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (105),(130),(162),(173)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1110
atggggccca taagggattg gcgcacgata tggaatagcg atgccattgg caccttgat 60
gctgcccttg ttccgtcgca acaatcgctt tctcgaacgg aatcngtgta tcttccacgt 120
caaccgcaan atgtcaccgc atcgcctcgt ctttcgtcgt cntcccatct tcntggatcc 180
caacaacagc cgcctccatt gcagaggcct catgcgtctc cagagcgatc gtcttcctat 240
ggctcaatac aatcgccctt ccagtatcat tcggcttctg cgctgagtgc cggtgcgcaa 300
tcccaacgag gccagagtcc gccccctcca gctcctccat ttgcttcctc cggctcgcgt 360
gactcctatt ctgcgtccgc cagttataac acggctgcat cgttggcctc tccatacacc 420

ccgcaacccg cgagttccac aggtcctttc ccagagcagc aacagcagca gtcgtatttc 480
gcgcagcagc gatcccagtc catccagtct gtcctctccc ctccacccgc gaccaaccac 540
tcattcccac ccagagacag tccttcctca gctgcttcgc agtcgcatcc gtcacaactg 600
ttctcacccc ctgcgcatgg gtcgttgcct gggactccgc gagcatccgc taccacatca 660
ctaccgcgtc aaacaacgcc gtccacgcgt ccccaatcct ccggtcatga ctcccaatca 720
caccatggct caagcccttg ggttggcccg gattctcaag tccacatgtc tccaacttcg 780
atgccaagag cttcgcgtca ggattcaaga caccgggagc tgacccctcg acaatttcct 840
ccgagagttg acaggcga 858

<210> 1111
<211> 375
<212> DNA
<213> A.fumigatus

<400> 1111
ctgtcagctc tcagcccctc agcctcatca atagccttcc tgagactcga gatctatccg 60
actgattcat gttcatcggg ctccaaactt tccaagctta agtcaacaat cagtagtttg 120
actcgacagc aatatatcac ctttgtagtg attggagaat tatgtacaga gacctccagt 180
gtccgtccag tccgtatcaa gacgactgac atcattgagc acattctctg gcaactcctc 240
cctgccaata atttgattag cgtgcgaacg ttgctatgga acatggtacg atattggctc 300
tgtccaaact tacaaatgcc attcctgcga gcccctgact ctgcctggtc ggctattgag 360
tccctaggag aaata 375

<210> 1112
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1112
cactatcttc agtcgttcaa tcgtaaatcc gatctctgca gacactaccg gatacatacc 60
aatgagcgac cttatcattg taccgtcaag gactgcaaca aaagttttat tcagcgcagc 120
gcgttgactg tacactcgag aacacacact ggcgaaaagc ctcacgtctg tgatcatgaa 180
ggctgccaca aggccttctc tgatgtaagt ttattgacac cgggcatgtc ttca 234

<210> 1113
<211> 798
<212> DNA
<213> A.fumigatus

<400> 1113
gggcgcccca tgttaaatgt ttcttggcat cacccagagc tgttggtcct tctcagccag 60
ctcggagcta atatgaaacg gagggctaag ctgcatcaat ggtccacact attccacgcg 120
ccgattaaag gctgtgtaaa ctgtatgcgt accgtgctag agctcggtgt cgactctagt 180
gctgtcgatg agggagggtt gtccacaatg tcctatgccg catgggaagg acctctgcaa 240
tgcatgctgc ttctgtggtc tcatcgtagt gagtcacaat tacctcaaaa gcccctcgat 300
atcctcaatg gcttgaggtt gcaggaacca aatttgacta ccatgaatca cgagatagtg 360
gcctcgagtg acatggacac tgctgatggc attcctgacc tttcactgcc cccacccatc 420
attcctttga gacgctacgg acacaatttc ctggataaga aggtattcgt ccaaattcta 480
ttcgagccag gtagctcagg ctcgctttgc tttgaccaag caggtcgcca tcctgctgct 540
cggttgacca tttcgtcgaa gctctctgat ttaatacctc gcacaattat gctccctatt 600
caggaagatt ccaggaccat ctcttttcat gttgataacc tagaatcatt tgctgttgat 660
tttgaggtct ttcctacctt tggttcgaaa gtcattgcta aaagcgtcgc tctacctacc 720
gtgtttagag ccgataaatc cagtaccggg tcatgcacgc tgccgctgtt tgatcctaga 780
ctgcgctcaa ttggccag 798

<210> 1114

<211> 600
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (15)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1114
gttccattga gccanagaaa gcaagtcaag cacccctata atggaggtaa acccccccgca 60
ggagcccctc ctggtaagaa gggcgaccca gagaagacaa agccagaatg gtggcccgcc 120
gatgtggttc acaaggagcc tgaccatctt cgaaaggatc gtacgtgtac ccctccagaa 180
ggtttcctgt gtcacgtaac tttgctgaca gatgtagaac gcctgtctct gttgattcat 240
atcatccgca agcttggaag attcggtatc actacagatc aattgcagga gatcgcccac 300
gactgcaagc ggcagctcag aggacctcac agactccaaa tcctggacga ggtcttcaga 360
gtgagaagga tggaagaacg ctatgaaaga ggagaagttg gtaggcagca tcttcttttc 420
atgaaattta ttttaacagc tgttgacgag cctcagatgc caacacgatt gtatatgttg 480
tcaaccgaga gtcgaacccg aaagagaagg atgctgactc caacgtggat ctggaccaga 540
agcatgagca agaagacgat aatgcggatg aggcacttcc cattcaccac tctgaggtga 600

<210> 1115
<211> 549
<212> DNA
<213> A.fumigatus

<400> 1115
cgagcctcag atgccaacac gattgtatat gttgtcaacc gagagtcgaa cccgaaagag 60
aaggatgctg actccaacgt ggatctggac cagaagcatg agcaagaaga cgataatgcg 120
gatgaggcac ttcccattca ccactctgag gtgaactcaa ccagcctgat gtcgagctca 180
gtcgaacaca tgggcatggc ggcaccaagt cgcccaatga atattgggga tgagaggaac 240
cagttgtttc ctttaccgga gtcgttgagc ttcggtgagg caccgcgaga tgatcggacc 300
ttctttccca caacctctga gtataccgaa gattatgcat cacagcagat gcttagaacc 360
cctgcaacaa cggcgcttgt cagccccaat gagccacctg ccgctttcga ttatatgaca 420
caggcaccca tcacctcccc cggctcggga gcctatttcc ctccccccgcc aaattatccc 480
tggccatgtc agaaccgggc agtttccaac cctggaaccc ttcgtttcca aaccaatctc 540
ttcaacccg 549

<210> 1116
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (200)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1116
acccggtatt tctcccggat cccaaatcta cgagttgatg aagtccccgt cccaagatta 60
gttgcgaaga ccatgaccta tccgaaagtt gtcaccggtt acaccaagaa gaaactgcag 120
caaagggttc gaaacggacc aaagaaatgg caaggagcga actacatcat caagagggtt 180
tcggatttca agctgttttn g 201

<210> 1117
<211> 657

<212> DNA
<213> A.fumigatus

<400> 1117
aagtatggta atctcaacat gatcgccgat cagatccaag aaggagacgt gatcgagcgt 60
cacattgagg atggcgatat cgtccttttc aatcgacagc cctcacttca caagctcagt 120
attctctcac acttcgccaa agttcgcccg catcggacgt tccggcttaa cgagtgtgtc 180
tgcaatccat acaatgctga tttcgacggt gacgagatga atcttcatgt gccccagaca 240
gaagaagcaa gagccgaagc tatggagctg atgggtgtga agaacaactt ggccactccg 300
aagaacggag aacccatcat ctctgccatt caggatttca tcagtgctgc ctacatttta 360
agcagtaagg ataatttctt cgaccgtcgg tcctttacgc agatttgtct ttatatgctg 420
gggccggaaa ccagatttga tcttcctcca cctgctgtcc tcaagcccca aatgctttgg 480
actggaaagc aggtcttcaa catcctgatg cgtcccaaca aggacgatcc tgtcctggtt 540
aaccttgacg ccgcttgcag agaattcaaa ccgccaaagg atggtcggcc aaaagacctg 600
gatccaaacg atggctggct tgtcatccgt aactccgaag tcatgtgcgg cgtgagt 657

<210> 1118
<211> 342
<212> DNA
<213> A.fumigatus

<400> 1118
tatgcaatca tcaaaatgaa ttggcataat ctctctacaa tcttggccgt tcttacctct 60
ctgctggccc tcattgtctg cggtcaagag gacaacctcg gtctcaagaa tggatacatc 120
tccctgtcca cggcgaattg ggacctgaag cttgtcaaag acgctcaggt tcttgcatct 180
cttacgccca aggggaagtc ctttgatttc ctccccttg actatctctc cgtccgcacc 240
gagaatcagc aatatcacaa tggggatatc accttcagct accgagctac aggcgagatc 300
ttcaccacgg aggtcgacgg acccgcgaat atccacgggg gg 342

<210> 1119
<211> 210
<212> DNA
<213> A.fumigatus

<400> 1119
gttctcatcc atcacaacgg tacggggaag cggccaggag ttgctttggt tgcggcatca 60
gcaaactact ggagtatgct gattgctatt ttgttaggtg gccatctatc ggatgatact 120
gtggacactc gataccttac tccatacgtc gttacagaca cggccaaccc acttaatacc 180
acgctcatcc ctccgagagt ccgaatgacc 210

<210> 1120
<211> 453
<212> DNA
<213> A.fumigatus

<400> 1120
tttcaaaaag agcattttat tgaagatttt ggactactta gactcaagtg gtttacatgg 60
ccgagtagct actcatggct gccaatttct ttaacaacaa ggcccgagct gcagctgctg 120
cagctgccgc agcatccacc agttcgaagc aaaagccaac agatggaaag gaggagcaga 180
cacggctgca gccatgggtt gagaaatagt atttactatc tagcccattg tctattttac 240
gcaatggttg ttctaacgga gatccatagc cgtcccaaga ccctcgatga tgtagccgcg 300
caagaccaca ccacgaaagt ccttcaacgg acattacaag cttcaaatgt acgtcataca 360
agacttccta ccaaagtaaa ttcgaagatg aacgttactg acagaactag ctcgtcttct 420
accacgagga gcggcggatc cgcgctaaga att 453

<210> 1121

<211> 192
<212> DNA
<213> A.fumigatus

<400> 1121
gccctaaaat gtattagcac aattactcct catcctaagc caacagcaac ttacctctcc 60
ctcttctcca acccaaccgt cacaaacgtc gctaggataa gaatcccaga caaaactgtc 120
accgtaataa acccccttcct gtactccggt gcctcaacct gccgccaaac aatctgcggc 180
aaccacgcct ga 192

<210> 1122
<211> 318
<212> DNA
<213> A.fumigatus

<400> 1122
tacatcattg ctggagcagg gtacggccta agcgggcttc taatggcgta tgtattcccc 60
ttctcagtag gcgtatcgca aactgaagac aacagatggg cacatgagat ctgcgccgag 120
gataacgagg aacgggcatt ggtggtgggt agcatgaatg aaatggcgta tgtctttcag 180
gcgtggttgc cgcagattgt ttggcggcag gttgaggcac cggagtacag gaaggggttt 240
attacggtga cagttttgtc tgggattctt atcctagcga cgtttgtgac ggttgggttg 300
gagaagaggg agaggtaa 318

<210> 1123
<211> 990
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (802),(814),(861)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1123
gaatcaccgg taagagtcca gcatcaggtt cccaacctat acgatgatcc cagctcatac 60
tggatgcaac tcacagatgc tggtgccaat ggagccgaca tgtcaagttc gacttcggcc 120
gcagcaaacg ggactggaaa ggaagttgac gacggctcgg acgacgatgg cactgaaaac 180
ccccccgcag tagctgccga gcacagcact gcgaagaaaa agaagaacaa aaagaggaag 240
cccaagaaga agcaacccaa ggtccagacc gatccgccat cgattcccct ctcgcagcta 300
ttcccgaaca actcctatcc caagggtgaa gaggtcgagt acaaggacga gaatcgctat 360
cgcacgacga gcgaggagaa acgtcacctc gacaacctga atagcgactt cctctcggac 420
taccgtcagg cagcggaagc gcatcgccag gtccgtcagt gggcgcagag aaacatcaag 480
cccggtcaaa cgctgctgga gattgcgaat ggcatcgagg agagcgcgcg atgcctggtg 540
ggccatgacg gcttaacgga gggggactcc ttgatcgccg gcatggggtt tcccacgggg 600
ttgaacatcg ataacattgt cgcccactac agccccaatg ccggctgcaa gaccgtcctg 660
gcgcagaaca atgtcctcaa ggtcgatatt ggcattcatg tcggcggtcg cattgtcgac 720
agtgccttca ccatggcgtt tgatcccatg tacgataacc tgctcgcggc ggtcaaggat 780
gccaccaaca cgggggtgcg cngaacgggc atcnatgtcc gtgtgggcga actaggcggc 840
tacatccagg aagcgatgga nagctacgag tgcgaaatcc gcggcaagac gtacccgatc 900
aaggcgattc gcaacctgtg tggccacacg atcctgccgt actccatcca tggaacaaaa 960
atgtcccctt tgtcaagtcg aacgacttga 990

<210> 1124
<211> 288
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (44),(56),(103),(236)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1124
cctgctcgcg gcggtcaagg atgccaccaa cacgggggtg cgcngaacgg gcatcnatgt 60
ccgtgtgggc gaactaggcg gctacatcca ggaagcgatg ganagctacg agtgcgaaat 120
ccgcggcaag acgtacccga tcaaggcgat tcgcaacctg tgtggccaca cgatcctgcc 180
gtactccatc catggaacaa aaatgtcccc tttgtcaagt cgaacgactt gaccanaatg 240
gaggaggggg acttcttggc catccaaacc tttgggaata ccggcatt 288

<210> 1125
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1125
ggatatcgct tgtgcgacca gctcagcaga agatggccgg gcatccgtct tgcgggtcta 60
attgatcagt cggagacctt ccacaagttt actctaaagt cgagaatgga tgtggtcctg 120
gcggtcattc ctggccatct tttgaccatt taccaggctt tcaaccaagg agctggccat 180
tataattccg tgggtagcca accgtct 207

<210> 1126
<211> 366
<212> DNA
<213> A.fumigatus

<400> 1126
aagtcgagtg cccaaacaag agtttcgggc ctctggaccg caataatggg tgttgaaaca 60
gcctccttac aggatcgcct cgagagatgg gcacagaggc tacaaaatct aacagtgtct 120
cctctgaccc gagactatcc cgagaaccaa aaggccgatc tgaagagagc aattgaggcc 180
tttgaatccc tcaagctgcc aagggatgtg catactggac tgcagaaact ctctggacca 240
tcatccggtt tcattacttt cttggctgct tttgttgttc tcgtagctcg tttgaccggc 300
gatgaggata tcgcttgtgc gaccagctca gcagaagatg gccgggcatc cgtcttgcgg 360
gtctaa 366

<210> 1127
<211> 225
<212> DNA
<213> A.fumigatus

<400> 1127
tatctggaca aaaacagcct taacttcgct tcagtgtatg gcctcaaaca agggacgcac 60
ctgcacggac aggactatgc ctggctcggc tcaatcttct actttggcta tttaatcgcc 120
cagtatccgg ccggatatac cctgcagcga cttcctatgg gaaaagtcct gtccatcact 180
accatcagta tgtcactgct tagaactcat ctagatcaat attaa 225

<210> 1128
<211> 405
<212> DNA
<213> A.fumigatus

<400> 1128
ctggagacaa tagcgacaat ggctgatgac tgtggcattc agggcgtcct cacctcgctg 60

gcgactttca ccttcaccac gaacttcaag cactcctcgc cgtacgcgca cttgctgccg 120
ccgtggtctg cgctcttgac tcacccgatc gacaccatcg ggcaggcgct tgccgtcttc 180
cgcatgcatg tgcagcatac ctcgatggag acgaaggaga agcgcctcaa gcgggtcgag 240
gatgcggaga agaagcggca gtatcggatt gcgcatgggt tggaggagcc caatgagaag 300
actgagagac agaacccgga agtggttgat gatcagtcgc cggtcgcggt cgatattcct 360
gcggttggcc cggatgaata cgttgactgg gataggaaga agaag 405

<210> 1129
<211> 531
<212> DNA
<213> A.fumigatus

<400> 1129
gcactccgca ccatgactat cctcgtgcta ggtggccgcg gcaaaacagc tagtcgtcta 60
tccttgttgc tgcacaacgc cggagtccct ttcctggtcg ggtccagttc aacttcgtac 120
gtaggtccct acaagatgac gcactttgac tggctcaacg aagatacctg gaccaatgtg 180
ttcctgcgcg catctctaga cggcattgac ccaatttccg ccgtctacct agtgggaggt 240
cacgcaccag aattagttga tccagggatt cgatttatca atgtagctcg agctcagggt 300
gtcaaccgct tcgtcctcct cagtgccagt aatatagcca agggaacaca ctccatgggc 360
attctacacg ctcacctcga ttctcttgag gatgttcaat atgtggtctt gaggccgacc 420
tggttcatgg gtaagtttcc aaaaaccaca tcctgccgga ggtttgctga gccccctcct 480
agagaacctc ctggaggatc cacatgtcag ctggatcaaa aaggaggata a 531

<210> 1130
<211> 288
<212> DNA
<213> A.fumigatus

<400> 1130
ggccgacctg gttcatgggt aagtttccaa aaaccacatc ctgccggagg tttgctgagc 60
cccctcctag agaacctcct ggaggatcca catgtcagct ggatcaaaaa ggaggataag 120
atctactccg ctaccgggga tggcaagatc ccatttatct ctgcggacga tattgcgcga 180
gttgcgttct ctgtactcac agaatggaag tcacaaagag ctcaggagta ttttgtccta 240
ggcccagagg ttttcagccc gacgggcgaa ggaaccaagc taagcgta 288

<210> 1131
<211> 627
<212> DNA
<213> A.fumigatus

<400> 1131
gataatgcgg tcaacagctt gaatgtaatt catgtcagcg gcacgaaggg gaaaggtagc 60
acctgcgctt ttacgcgcgc catccttcga gctcatggta tgaggacagg atttcccaag 120
cgcattgggc tctacactag tccacatctg caatgcattc gtgaaagaat acaactcgac 180
gaccatccag tccccgaaga tttgtttacc aaatacttct ttgaagtgtg ggattgcgtt 240
atgcctgagg atatacagca ggattcagga gttgctaggc agcctcgata cctccagttc 300
ctggccctct tggccttcca cactttcatt agagaaggag tacaggcggc aatcttcgag 360
gtccaccatg gcggagagta cgatgttaca aacgtgatcc agagtcccgt tgcgaccgga 420
atcacatccc ttggagtgga tcatgttgca cagcttggac ctactatcga ggcaatcgct 480
tggcataaag cgggaatatt caaacctggt gcacctgctt tttctgtaaa ccaaaaaccc 540
ggccccgcag acgttatgcg caagcgtgct cttgacaaag gcactacgtt gacattcgtc 600
tcaactaatt atatctcgcc agggcgc 627

<210> 1132
<211> 420
<212> DNA

<213> A.fumigatus

<400> 1132
cttaatttgc ctagtgtgac cgatgccgtc aacgatgaca actcagtcat tgccctttcc 60
aacaatacca tggagacgct tcagctattc cgtggtgaca cagtgttggt gaagggcaag 120
aaacggaagg ataccgtttt gattgtgctt gctgatgatg acctggatga tggaagcgcc 180
cgcatcaacc gtgttgtgag gcacaatctg cgtgtcaagc acggtgacat catcaccgtt 240
cacccttgcc cagatatcaa atatgtaggc ttgcctttat gtatcctctc aaatgaaaat 300
ggaaaactaa cccttcatct ctctgcaggc caagcggatt gccgtccttc ccattgcaaa 360
caccgtataa ggtctgactg gatccctttt cgacgtctac ctcgccccat acttccgtga 420

<210> 1133
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1133
aggcaagcct acatatttga tatctgggca agggtgaacg gtgatgatgt caccgtgctt 60
gacacgcaga ttgtgcctca caacacggtt gatgcgggcg cttccatcat ccaggtcatc 120
atcagcaagc acaatcaaaa cggtatcctt ccgtttcttg cccttcacca acactgtgtc 180
accacggaat ag 192

<210> 1134
<211> 294
<212> DNA
<213> A.fumigatus

<400> 1134
aatacaaaat tattcctagc gcgctgccct ctccacgtgg tgaaggaggt cgagctcatc 60
ggccattttg atcatatcgt ctctatcata attggcaacg ccaacggtac gtgccaaccc 120
actgttgacg cagtttgcaa gaccctgcgc gacagtcgat atcatgctaa ggtgaattgg 180
tccatggaca aggtacacat ccacatgttc aaggccaagc ctttccaacg agcttctgag 240
ttcgttttcc agaccgtgcg attggagaaa gacgtttgtc gggtctggcc atga 294

<210> 1135
<211> 717
<212> DNA
<213> A.fumigatus

<400> 1135
ttacgcaaaa tgtcagttgc aggaagccag catgtcttgc agacagggct gcattctggt 60
atgtccgcta cagaagggcc aatgcactcg ccccacccga atcccgttga ccccaagatg 120
agtgaggagt cttatgtgct gcccagtgag atcataccag actcgagggc ccgaatcaca 180
ctgcggggaa aggcccacga tgttctagtg ccttatatat gcatcggtgc ctggtcctgg 240
ggcgataaag ccacgtggaa atacgatgca gaacgtgacc ttccgaggat ccgagccgct 300
tggtcgaagt tgcgacaggt cgggttaact tttgttgaca cggcccctgc gtatggcgac 360
ggagacagcg agcgtatctg tggccagctg ttcaaggaca tgaggcggga ggaattcatc 420
atacagacaa agtggatgtc atggccagac ccgacaaacg tctttctcca atcgcacggt 480
ctggaaaacg aactcagaag ctcgttggaa aggcttggcc ttgaacatgt ggatgtgtac 540
cttgtccatg gaccaattca ccttagcatg atatcgactg tcgcgcaggg tcttgcaaac 600
tgcgtcaaca gtgggttggc acgtaccgtt ggcgttgcca attatgatag agacgatatg 660
atcaaaatgg ccgatgagct cgacctcctt caccacgtgg agagggcagc gcgctag 717

<210> 1136
<211> 294
<212> DNA

<213> A.fumigatus

<400> 1136
tctcgcttat cttcggccct gcgtgaccat accggggcgg cccatgtgac tttgcccttg 60
gtgacagggg agacgtgggt caaggttccc gagtccatca gcatccgact tgtgggtgta 120
cctaagcctg ggatcggtgg aaaagacgtt atcctataca tcttgcagca gttgaagagg 180
aatactgtcg cttccgatag gatcgtcgag ttctctggtg ccggcgtgca gtatttgtcg 240
gctgatgctc gatttgctat ttgcaacatg acagcggtac gtcgatgcag ttga 294

<210> 1137
<211> 588
<212> DNA
<213> A.fumigatus

<400> 1137
ttgatgaagg aactcggtgg catcaccggg atatttgtgc ctgatcaaat cacgcgagcc 60
ttcgtggcca acaggcgctt acaacgacac aagaatctca tcacgtactt ccgacccgat 120
aacgatgcgc agtacgccgc agaactcgac attgatcttg caaatgtgca atccttttt 180
gctcgatacc cgagaccaga tgatgtggtt cctgtctcgg attacgcagg aatgcagttg 240
gatggttgct tcattggagc ttgcaccaca accgaggagg acctcatcct tgcagctctt 300
gtgctagagc aaggactgaa gaaaggctat cggccagtta accatgggaa gaggaagatg 360
gtacccggat cattgccaat cctgcataga ctacgcgaat tatgcctcac cggcgtcttc 420
gaagcggcgg gttttgagat tggggtccca ggctgcagct attgtgttgg catgtcggca 480
gatcaggcag tttcaggaga agtctggctg tcatcccaga accggaattt tgagaatcgc 540
atgggtaaag gtttgcatgc gtgccgccta tccagattgt ttagctga 588

<210> 1138
<211> 546
<212> DNA
<213> A.fumigatus

<400> 1138
tggcgaaata cttccccatg gatgtccgag accttcaagc ttactcccaa tgatcgtttc 60
actatgctga gtggtatcgc tcacgatcct attcagcgag atatcttcac accactcttc 120
ctgggagccc agctgttggt cccggctcgt gaagatatcc aaaacgagaa actggcggag 180
tggatgcgcg agtatagcgc tactgttacc catctgacac ccgcaatggg ccaaattctc 240
gtcggcggtg cctctgcgca gttccctgct cttcatcacg ctttcttcgt gggtgatatt 300
ctgatcaagc gagactgccg ttccctgcag gccttggctc ctaatgtcaa cattgtcaac 360
atgtatggaa ctactgagac tcagcgtgcc gtcagttact atgaaatccc cagctactct 420
agccaggagg gcttcttgga tactatgaag gacgtcattc ccgcgggtcg cggaatggtc 480
gacgtgcaga tgttggttgt aaaccggttc gatcctagcc gcatctgcgc cattggcgca 540
gtttgt 546

<210> 1139
<211> 672
<212> DNA
<213> A.fumigatus

<400> 1139
atgcaggtaa tgcactctgt cttctctggg gaacgatgct tcctagcctc ggaacgctgg 60
catgcggtga tgcggcagcg catcaactca ttctactctg aagagctaga agatctgcta 120
gaggaattca tagctctatt cacactggca ccgagccttg ttcacgcgct ctatgatatc 180
aaagcatcag atatgacgag tcctgcaacc tggaagaagg cgtccgaaac cttgaccagg 240
attcttgaga tgcagaacag actgttagaa tggtacagcc gtttttctcg aatcgcaccg 300
cctgcgtgcg aaaggctgtc agcgaccaat gacgcagtct atcccaccgt tctctattat 360
tcagatctga atatcgcctc aatattcaat tcctaccatg cgtacatggc tatcatacac 420

gaggccctac ggacccttgg ttatcctggc gaacatggag ctatggtcgc ctttttccga 480
gatcagattt gcaagtcagt ggaatacaac ggtgctggtc cactagggcc gtatcgaatg 540
ggatttccgc tgcgtgtggc ttacgaggtc gcagacccca aaacaaaggc ttggatagag 600
aaccgcttgg cgcatatgtc gcagtattat gcagctgtgc aacccaataa ttttgccacg 660
caatttgatt aa 672

<210> 1140
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1140
aaccacaaca actaccgtaa gcgctggtat actgtcgccg tcgtcgatcc ctttcgctgg 60
cgcttcgcat cgtcaagccc attggtgctc ctcgctccgt tctctgtcgc ccaggaacat 120
ccaatttccg tcattgtggt tgtcgcggct actgagacac cagctacaaa gcgtcacaga 180
tcgaacttgt cggtcagata ccattaa 207

<210> 1141
<211> 456
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (179)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1141
gtcacaaagg catattctac cccaattcgg atcgctgact tgaccagggt cctcgtggga 60
gctccccgcc gctctggacc catccccaac tcttccggga cgcttgcagt aaacacgcag 120
acatcctact ccttcgactc tcattcgaag accaatgaga tccgtgtatt agacatcgnt 180
accggccgat ccgccctcat cacgaacgat ccgggagcca gcagtccaca atggctggag 240
aacagcgacc agctggtgtg gctgaagacc aaagcaaatg gaaacaccag cttcattgtc 300
ggagatgcgc gggaggtcga caagacatac actgcgggca ctgtgccagg acctgtgtcc 360
gacctcaagg tgactgttgt cgaaccgggc aaaattgatt tgcagtggtg ggaaggcccc 420
ccggactctt ctccacatgg ctggcagccg caatag 456

<210> 1142
<211> 588
<212> DNA
<213> A.fumigatus

<400> 1142
tactggtatg ctaccaccgt atggaactgt cacagtttga ctaacttctt agtgaccttc 60
tcttacacaa cggcgttctg gtcatgggaa gactgggagc ttcagttgga ttggatggct 120
ctacgaggca ttaacttgcc ccttgcttgg gttggccagg aaaagatctt ggttgaggtc 180
ttccgtgaga tcggtttgac ggacgctgag atctcgtctt ttctgagcgg gccagcattc 240
caagcctgga atcgattcgg taatattcag ggttcctggg gtggtgaact gccatattcc 300
tggattgact ctcaattcga actacagaag aagatcgtcc gccgcatggt cgaactgggc 360
atgaccccgg ttttgcctgc gtttacaggg tttgtgcctc gagcggtcag ccgtgtcctt 420
ccaaatgcaa cagtggtgaa tggttcacga tgggaagaat ttgatgaacg atatactagc 480
gacaccttcc tggagccatt cgaccccagc ttcatgcgcc tccagcgtag ctttatcaag 540
aaacagcagc aagcgttctt caccacgcgg ctggaaggaa cagacact 588

<210> 1143
<211> 204

<212> DNA
<213> A.fumigatus

<400> 1143
cagccactcg cggatccttc cagccccgtg gtgaagacga tatacaagac tgacattttc 60
ttttccaccg ctgtttataa agctactcca tggataatcc aggaaaccgg agtctgccct 120
ccgaagtccg cacctgcagc atggatcctt ggaggtattg cttatagcgg agtctctccg 180
aaatccggcc tctcctcaga atga 204

<210> 1144
<211> 585
<212> DNA
<213> A.fumigatus

<400> 1144
agagcatgcg gtgtggcatc atcgacaacc gaaacgccgc tcttccaagt ttgcttcaat 60
taccgcatgg gagctggccg caccgcagcg ctgcaaggag tcgagatgaa attcttggac 120
tatgttgacg ctcagaaccc atttgatctc gttgcgactg tcgatgactt agacgacgga 180
actgccatga ttaccctcta tctacaagat tacttgtacg accaggaggg tgctcaacta 240
ctcgccacca tgtacgcgaa cgtgctgcaa gtactggcag agaacccaga gagattagtt 300
ggctctgtgt cgatttccaa cgctacgttg gaggacgagg gtgtcaaact aggcaccggg 360
cccatcttgg accttgtagc tccgtctact cccactttgt caaagatttt ccacacatgg 420
gtagacaagg acccccacgc tctcgctgtc aaggacacta ccggcaagtc gaagacatac 480
gtgcagctcg cagaaagggc caacgccatt gccgcgtcgc tgctgaacgc cggcgcgccg 540
ccttccgtct ttaccaaggg cagcggcatc cgagtagcaa tcgcc 585

<210> 1145
<211> 186
<212> DNA
<213> A.fumigatus

<400> 1145
tcgaactgct tgtggaaccg ggtcccggcc gaggtggatg ggaccccgca gaatccgcac 60
cggtttaatc tgttgcaccc cgactttcct accgatatgg gggtgcatct ctacccgctc 120
aagactaatg gcagagatgt ggagctccag agctacgatc gcaccaagaa ggccagagcg 180
agctag 186

<210> 1146
<211> 411
<212> DNA
<213> A.fumigatus

<400> 1146
gctgggacac aagagggtcc ccagactacc gacttccagt tccaaatttc gagcggaggt 60
tacgagcctt tccggagatg cttccccacg ggcatgttcc gttctccgca aaataaaaac 120
ttcgactgtg gagcacgaga aagggagaaa tcacatttgg ctcacccacc caggcgaaag 180
aatcttgccc aatgttcgaa tgcgcctgtc catggtgcta tcatggtcca actcccacta 240
acacagacta gtgccgacag tcccgctgcg tgttacctcc tggctcctgt aaatattgct 300
cttctagcca gagtaccagg gacaatggca gttcgtctgt tcaaacgtgt gggctactca 360
ctcaaaattc tcccctacaa ctcaatgggc tcaaccggcc cagctctcta a 411

<210> 1147
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1147
gatcttgtaa ccgatccccg agccgtttgt gactgcacga caggagggct gacgggaatt 60
agctaccggg gaagccgtgc ggtcgacctc agggccgtct tctggaacta cgagagcaac 120
aagttcctca gcgacaaggg gacgatcctc tccgatcaca atcccatcac gaccaacttc 180
acctggacct tgtccaatgc cttccgccag agtgacatct tcggtggccc acacgggtaa 240

<210> 1148
<211> 369
<212> DNA
<213> A.fumigatus

<400> 1148
acaagatttt tacgatctgc acgcggacgc cgggtatttc tttcctgcct tcgtccgttc 60
tgtagcaaag ctgacttgca cagatccaaa gacgacgatg tcaaggctcg cagcgccaat 120
ctgcagcagc tggccgatta catcaaggtc aactcggccg gcaatgcggt gctggtgttt 180
ggcgacacca atgcacggta tacaaggact ggcgacaata tccgtgtctt ccagacgcag 240
aatggcatgg tcaacccgtg ggtggagctg attctccagg gagccgcgcc ggccgagggg 300
agcaatgcct tgctctgccg gaatcctagc acaaccagtg actgtgaaac ggtcgataag 360
atcttgtaa 369

<210> 1149
<211> 249
<212> DNA
<213> A.fumigatus

<400> 1149
cctggatgca gaggacaagg caccgaccgt cccgacactc tctcgttcga cgactcagac 60
aacgcttcca ccgtatactt cacgcccagg aaccgcggca ccggagcgga acccaactct 120
tcctactctc cccgacgtat cgtggacgga gaaaccggcc atgagccgaa cggtgacaca 180
atcatcggcg cattcggaat caacatcgta ctctggggct acggccgtct ccggctacag 240
ccctcttga 249

<210> 1150
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1150
tcgcgggtcc ttacctgcgc cgcctgttcc tcctgtccct accaacgtgc cgatgcccgg 60
agcacgttct tacacgccca tatcacggcc gccgacaacc cggccaacac gtacaccggc 120
gccgccgtcc gcgaccaacg catcaagccg tatgccgacg acgatgcacc agggcgacta 180
tga 183

<210> 1151
<211> 1080
<212> DNA
<213> A.fumigatus

<400> 1151
tccccgccat tgcggcgcgc ggagcctttc agccccgtgg tgaagaggca cttggatcgc 60
gcgccgactc aaccacacct ggcccttgac cggaaaccga ccctccctat ggtggctgac 120
ctggatgcag aggacaaggc accgaccgtc ccgacactct ctcgttcgac gactcagaca 180
acgcttccac cgtatacttc acgcccagga accgcggcac cggagcggaa cccaactctt 240
cctactctcc ccgacgtatc gtggacggag aaaccggcca tgagccgaac ggtgacacaa 300
tcatcggcgc attcggaatc aacatcgtac tctggggcta cggccgtctc cggctacagc 360
cctcttgatc gcgggtcctt acctgcgccg cctgttcctc ctgtccctac caacgtgccg 420

atgcccggag cacgttctta cacgcccata tcacggccgc cgacaacccg gccaacacgt 480
acaccggcgc cgccgtccgc gaccaacgca tcaagccgta tgccgacgac gatgcaccag 540
ggcgactatg aggaagcgcc acgccgatat cccgatccct acagtactga tgcaccttac 600
gatgaaaact atggtgcgca tccatcgtat agtgcagccc ctgatcctta ctcccgttcc 660
gtgacgcgtg gaattgctgt ctcgcctggc gaggactatc caactcggac gctatctcct 720
cagagtcaca gaggaacacc ccagccatca tcatccgacc caccaacgag ctatcccgta 780
cgagcataca ctccaggtaa cgctgggacg gctcgacctc cgctggccgt tgatgcagct 840
gcaagttacg ccgaaagaac atacacccca gtctctcaga gagccacacc ccgaccgcag 900
cagcagagct cacagcagca aggaggttat gttgcatttg atccttcctc gatgggcccg 960
agccaaccga gtgccggcat tcgacccaca cattctccgg tttatcatgc gtatagcgga 1020
ccgagcagtg ctacgtcgcc caacgggcct agcaaccgag gaccgcctgt acgggcctac 1080

<210> 1152
<211> 276
<212> DNA
<213> A.fumigatus

<400> 1152
cgcgtatcct tccagccccg tggtgaagac attttctctg cactgaaata ccttgtgctg 60
attgaaagcg cctttaccct caactttgcc gcctgttttg cctacagagg ggtccccgct 120
atcctgcctg ctatcttgcg acaagggaca actgttgtgc agcagttacg accagtcctt 180
tacccgaata tttttgcgat ccttgatata gattgcatgg gaactgggat attgaacaaa 240
gtccaagctt tgggcctggt gttgcaggaa acgtga 276

<210> 1153
<211> 222
<212> DNA
<213> A.fumigatus

<400> 1153
gataatggaa aactagaata ccacatacca gcgcagtatg atacagaccg acctggcttt 60
aactacaccg tcgttaagca ctctatgggc atcaacaagc atcctttagc tgctagtttc 120
ccccaagcaa ctggccagcc atcactgctt ggcgacccag cagatctcgc atctgtatgt 180
ctgtgtctta caccacgcgg ctggaaggtc cgcagcttgc gt 222

<210> 1154
<211> 249
<212> DNA
<213> A.fumigatus

<400> 1154
ttctctaaca gaatctccgg aaagatgacc gctgcgctca caatctactc cgcaaccttc 60
atgcgttacg ccctcgctgt ctctcccaag aactatctcc tcttcgcctg ccatttcatc 120
aactgctccg ctcagatgac tcaaggatac cggtacctga gctactggaa gtatgttctc 180
tactcgcctc ctccacattg ccgtcccctg tgccttcttc ttctctcaac acaactatgg 240
aatgtgtaa 249

<210> 1155
<211> 342
<212> DNA
<213> A.fumigatus

<400> 1155
gctgagtcgg ttggctccaa cctggataca tcctcttcag cagttcgtgt ggaaaagttc 60
ggccttcgtc tggacatcga ccccgaattg cttttgtttg gtccgtcttt catcaatgac 120
acaatatcct gcaccttatc acagtggggt ccccacccct tctataacag actagtcgcg 180

gccaagatca caacagaacg gtgtttcaac aatgaagcct taaccaaaga tagaatggca 240
acatgttatt attataaagc gttatacttg atcaaaagca ttagtgcgtt caaaattcag 300
aaaaccggcc aaatcgagtt cggaatgaaa caattgactt ga 342

<210> 1156
<211> 549
<212> DNA
<213> A.fumigatus

<400> 1156
cacatagact tccggcgcgt cgttaagaca gttcgtcagt ggcggcatag agctctccaa 60
ctcttgtcgt ccgaaccacc cgagaatttg gtatcacctc cgactctcaa gagcgcatcg 120
ccgctccaat cgatcaagga cttgttggaa ccgcctgggt cacaggccga accaatcagc 180
atcaaagtcg acgtaacatc tccaaaagag tctcatccgc ccggtgcccc aaatttcacc 240
gccgaacgca agtctcccgt tctttcaccc ctgaaaaagt ttgcaatatc accttcggat 300
ggaccagtcc aagccttgct tccggcactc cagacgtctc ctccattagc aactgccaaa 360
tcgccagaga accaccaaca gcatagcctg ccgtcgatac agactgcttt ggctgagatc 420
tcggggcctt attctcttcc tccagtctcg acatcccctc cttcaatacc gaggaatgaa 480
tcagcgtggg atcatcaacg ccccggacag tttgctccgc cacaggttcc ccctagtcct 540
tactcacat 549

<210> 1157
<211> 486
<212> DNA
<213> A.fumigatus

<400> 1157
taccagaaaa tccgacaatc atggagcaaa tataatttgt tcaacctgag tcgatttcgc 60
gcccctccga ccgcaaaccg caccttcttc caacagaaat ggactgccaa gtccgttgcc 120
cgagcatacc atggcgaaca ggtccgtgaa agccaatggt ctcggatgtt cacccgccgc 180
atccgcagcg tcgtacccat gagcccagag aaattggcta gtgatgatgg ttctgcaatg 240
tccgccggtc gaggagcggg cctggaatcc gaagcgagcg gcgatggcac agctggggcc 300
caggaccaga cctccttgac accctataca cagatgactt ttgctcctct cgagcgtcgg 360
ctggatgttg ccatcttccg ggcgatgttc gccagcagta ctcggcaggc ccggcagttt 420
gttgtacatg gtgcggtgac ggttaatggc aagaagctct gcttctttgg ccttgtagta 480
cgacgc 486

<210> 1158
<211> 204
<212> DNA
<213> A.fumigatus

<400> 1158
atggcttgct cccagcctca cattgaggtg ggggcctccg gtttccggac atcttccaag 60
gtccaaaact ttgatgttca agggttcctg aacttcttcg tgcctacagg tggagcccga 120
gggaacattc ttttcaagct cttagtgcaa tcgccgagac tctggctgtt tgactatcgc 180
gggctcaaaa tttggaggcg ctga 204

<210> 1159
<211> 252
<212> DNA
<213> A.fumigatus

<400> 1159
tacacgagaa gatggatcaa gacgtctaac tcaattttcg acttcgtaat ctgtgcagcc 60
tcaatcatta ttgaggcgtc cacctaccgt gcagatttca gagtgagtga ggcttaccat 120

ggtaacaata ttaaaataac aattatgcag cttcctctgg tgggtgataa ttggaatggg 180
tcttggctag actgttgttt atcagtccta ggcacttgtc agtgtctcga cgagatctgt 240
ccttttgcct cg 252

<210> 1160
<211> 1203
<212> DNA
<213> A.fumigatus

<400> 1160
ttgggccaag cggtcccccc tcttccaaga aggcaaagaa gaagggttat ttccaacaaa 60
agccccgccg gggccgttct gccaatggga cctcgggcaa agcgggcaag ggcaatgttg 120
actttcacca acccacgcgg ctttggattg ggttcgtcgt tcacattaac cgctcaatgg 180
acctcggggg tggactcctt caaatccgac ttgtgcgagc gcatccccta caaaaacatc 240
cagtaccacg acggctccga ccctatccgc atgcacaact actacactct cctcttcagc 300
aaactcgtgt acgaacccat gaccggccga tacggccctt ccaactctct cctcttcgcc 360
cgctcatccg ccccaggcgg ccaagcttac tccgtccact gggacggcga ctgcgaatcc 420
acctatgaag ccatggccga gtccctccgc ggcggcctct ccctcatgct ctcggggtat 480
atcttctggg cctcggacat cggcggtttc gagggaaccc cacccccagc tctctacaag 540
cgctgggtcc agttcgggct tctatcctcg cactcccgcc tccacgggtc ctcctccttc 600
cgcatccccc ggatctacgg cgaagacgcc tgcaccgtcc tccgcgactg cgtcaaacgc 660
aagatcctcc tcacccccta cctcctcctc gaggcgctgc gcggccaccg ccaaggcgtt 720
ccgctcatga gacccatgtt cctcgagttc cccgacgacc tcaacaccta cccgctcgac 780
acgcagtaca tgttcggcgc gaacctgctc gtcgcaccgg tgttctcgga ggatgggtca 840
gtcacgttct atgtgccccg gacgccggag gacgcgtgcg gtaagtggcg ctcgtggttt 900
gatcatgcca agacgtacga gtctggtcag tggtataccg agacgcatgg ctttgatacc 960
ctgccgatcc ttgttcggcc gggctcggtg acgcctgtta atcccaagtt taatgtgccc 1020
gagggtgatg ccctggatgg actggagttg ctcgtcaacg gtactttggc ggcggatgtg 1080
gacgtcgagg tggtataccc cattaagacg tacgcgacgc tcaggactgt ccgtgtctcg 1140
cccagtggcg ataccgtgac tgttgccgat gctaatatta aggtggtctg cattcaccaa 1200
tag 1203

<210> 1161
<211> 408
<212> DNA
<213> A.fumigatus

<400> 1161
ccggccgata cggcccttcc aactctctcc tcttcgcccg ctcatccgcc ccaggcggcc 60
aagcttactc cgtccactgg gacggcgact gcgaatccac ctatgaagcc atggccgagt 120
ccctccgcgg cggcctctcc ctcatgctct cggggtatat cttctgggcc tcggacatcg 180
gcggtttcga gggaacccca cccccagctc tctacaagcg ctgggtccag ttcgggcttc 240
tatcctcgca ctcccgcctc cacgggtcct cctccttccg catcccctgg atctacggcg 300
aagacgcctg caccgtcctc cgcgactgcg tcaaacgcaa gatcctcctc acccccctacc 360
tcctcctcga ggcgctgcgc ggccaccgcc aaggcgttcc gctcatga 408

<210> 1162
<211> 198
<212> DNA
<213> A.fumigatus

<400> 1162
aagcccgaac tggacccagc gcttgtagag agctgggggt ggggttccct cgaaaccgcc 60
gatgtccgag gcccagaaga tataccccga gagcatgagg gagaggccgc cgcggaggga 120
ctcggccatg gcttcatagg tggattcgca gtcgccgtcc cagtggacgg agtaagcttg 180
gccgcctggg gcggatga 198

<210> 1163
<211> 546
<212> DNA
<213> A.fumigatus

<400> 1163
ttgttcttct cgttgtatat tcaactgaca cttgcaggtt cgcctctaaa ccgtctctca 60
ttcttgcgct ctgaacatcc gttcctctcg gccgcccttа agcacccgtc tactcgcttt 120
gtactgttga aagaccttgc gcctctcacc aagagtcctt ctgaactcta ttacgcaaag 180
tatgacgaag tacggaaact tgtgcccgag aacttcttcg acaagtccga ggaggagatg 240
atcaagcagt ttgactcgcg aaagacaagt gctcagctca tcttcctggg gctggatgaa 300
acgcggaaac aggatggtct ggcttggaaa atctacaccg gagcccccta ttttgctttg 360
gatgtaacgc cgaaaggttc agaggagcag caggccaacg caaaggacat catcagcaca 420
gtggtggcta aaggcctcag cttataccag tcgagagtgg tgatgacttt catcggcgga 480
cgagggtatg tgaactgtag acaacgacaa caggttttca cccgacggcc aggacccagc 540
aggtag 546

<210> 1164
<211> 351
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (155),(266),(276),(284),(287)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1164
ctaatgtcgc gactgtcccg gttatttgac aagtctaaac agactctacc cgttacctcg 60
gcaagcccag acggccctgc ctggactgag gtcggcaatg ccgccgatca ccttccagca 120
gagcttgaat ctctctactg gactggggtc aacanagagc tggactgtat tgtttctact 180
ctacgacgat ggcaagcacc ccatttccag cacattcaac ccgacgcaga caatacactg 240
gtcaacggct tcgacacctt cgtcgncgat gttgtnccgc agtncgngca gacaccctct 300
cagctaccat tccaagtatt cactgagctc accgttaaag gcgtttggtg a 351

<210> 1165
<211> 576
<212> DNA
<213> A.fumigatus

<400> 1165
ctctctctga cgacgcacct ggcgcttttg tcgacgcgac tgcccaaact gaaatccaag 60
ggcgaagagg acccgttctt cgacgatgat tggaacgtag cggaatatct ctaccctcgt 120
cagagctctg ggaatgctac cacaccctca ccttcacagt tcgttcgacc tccagtgacg 180
ctgctggtca tctctgtggc cgataacatc atcttcgatc ccagcaggga ggagattgcc 240
gttgcagata ccgtcttggc cctttcagtc agccgcgatg gcgagactgg tagtctgaaa 300
ttgatctcta tgagaacaat tgaccctcca tctcgtctga cacagccggg tgtgccgaat 360
tcggagaatg tcactacgat agggtcttcg gctgctgcag aggatgctgc tatcctgagc 420
ccttccaccg gcgaggagga agttcctgga gtctggaagc ctcgacgtgg cggggttaaa 480
agaagtacga tcgcgcgcat ggtgaaagcg gtgctggaga aaggtggtgt cggcgaggat 540
gtactagagg gactagaggg agtttccgtc ggttga 576

<210> 1166
<211> 783
<212> DNA

<213> A.fumigatus

<400> 1166
ggacttgata cttccagcgc cgcgtgtaag atcgattctt ctgcacgatt accgccaggc 60
aaccgatcgc ggcccactcc acctccagca caatcctcaa agccacctgc accatcaaca 120
tctcttcctg ttcggccaaa ggctcctgcc cgaattgttc cacaattgtc acaggaaagt 180
ctgatatcga ctcaccggca tcgtgagaaa ggtacagagg catacaaaag aggtgactat 240
gccgcagctc acgatgcctt cacctctgcc ctcactatgc tccctgataa gcatcccatc 300
agtatcgtca ttcgcagcaa ccgtgcaatg acagccttga aggtcgggga gccgaaagtg 360
gccatcagtg atgcggacgc catcctggag ctgatcggcc cttcaaaggg agaagccgag 420
accattgatc tcgctaacgg tgaagcggca aagtcaatga aagatttcta tggcaaagcc 480
ttgatgcgca aggccgaagc tttggagcaa ttggaacgct gggctgatgc cgctcaggta 540
tggagacagg cggtcgagaa cggccatggt ggaagtacta gtatccaagg ccggaacaga 600
tgcgaaaaag ccgctggtat cagcaaaccc gcacagaaac ctcctgcgcc ggcgaagcgg 660
ccgccagcac ccgctccgaa gaaaccgtcg gctctggacg acctccaagg tggctcgctg 720
tcgacgggcg gatcctccga ggctgtcagc cgtttgcgag cggccaacca ggcagccgag 780
cgc 783

<210> 1167
<211> 474
<212> DNA
<213> A.fumigatus

<400> 1167
ttgaccagac tttcgcgaac ttcttctcaa atttggaaga ggaatttggc ctacacgaag 60
ctccatcaag ctgtcttgaa cgaacaagta gatgaggtga aagccttgct aagccgaggg 120
gcaccaattg atgtcccaga tcggaagggg aacttaccag tgcattacac tgctggacac 180
caggacgaga agattgccaa atttctactc ggctatcgtg tgggaaaaat cgagcccttg 240
gtaaagcaag atcttgctcg actcacgctt gaccatcgta atacggacgg gaataccccct 300
atgcatctgg ccatttcagc aagaagctta aactatgacc atcaaaagag cattgtgacc 360
catcttctgg gggccggggg caacccttat atccccaaca accttggagt gactccgata 420
caaaaggctg tggaactcgt gttcccgaac aatgaactgg gattatggac atca 474

<210> 1168
<211> 780
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (711)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1168
tctcagagaa cctcttccaa cgcatctact ctcacaacct cttttgggat ggacggtgcc 60
gctgtcacat cgctcgtact cggtgatgaa gacatgccga ccgagcaggc ccaggtccca 120
catgattttt ctgagaacaa ggggcatgcc gccaacacca ttggagaaga cgagcgcctt 180
gaagagcctc caagggaact acctaccgct caagccaccc aacagagcaa cctcgttggc 240
ttggcccgta ccagttcacc gcttaaacgc gttcacgacg ataaccaaag ccgaatttcg 300
gcgtggaata actttcatgc agtggctgca agagacgaag cagcggaaaa tgctcgtcgc 360
ttggaagaat cacaagataa ctcagcctca caactgcccc atagtcttac ctggcgcaag 420
ataagcgtcg acgaggatga tccggtgcga aaggtcacga cagttgagaa acctgctgac 480
gagaacgaat cggaaaccaa gaagcagaag acaggccatg ccgtgagcgc tacaaagaat 540
tccgacgaga tcccgctcga cctcgatagt gattccgatc agggaatatc tacgacggct 600
gagacccagg gagcaactca gaagcagaac gcagttgtta cccaacctgc cgccccagat 660
gttactggtg aatcaaagct ttcaggcacc acccaacagg acaagcctca ngttagaagt 720

ctagactctc aagacgttcg taatctcctt cccaccagct tctctcaacc cgaaagtttt 780

<210> 1169
<211> 858
<212> DNA
<213> A.fumigatus

<400> 1169
tttcattcca gccgtctcct gcttgaatca gcgatctcta ctgcaatgat atactcgctg 60
cgaatcctgc agtggctttg catcactgca gggcttgacc tgctcgtgcc atccttggct 120
gcagatacaa gtgcatggaa gtccaggtct atctatcaga cgatgacaga cagatttgca 180
cgtacggatg ggtccaccac tcatccatgc aacaccacag aagggctacg ctgtggtggc 240
tcatggagag gtacaatcca acacctcgat tacattcaag gaatgggatt cgacgctatc 300
atgatctccc caatcgtcca gaatgtcgag gggcgcgtgc agtacggaga ggcctatcat 360
ggctactggg tccaggacat gtatgcgcta aacccacact ttggcactca ccaggacctg 420
ttagacttga gtaaggctgt tcatgatcgg ggcatgtatc tgatggtaga tactgtcatc 480
aacaacttgg cgtacatcac cgacggacga aacccggcca cgagcattga ctattcagcg 540
ctcagaccat tcaatgactc aatgttcttt catccatatt gcaagatcac cgactatgac 600
aactatccat tggcgcaaac atgctggaca ggtgatgatg ttgttccccc tccagatcta 660
aagacagaag atagccaagt tcagagcatg ctcatggact ggattagaaa aatgatggct 720
acgtattcaa tcgatggcct acgtctggat gctgcgaagc atattacacc aatttcttgc 780
ctttgttcca aaacgcttct ggcgctctta ttactggaga agtcttcacg ccggggctgg 840
aaggaaccgc gctgcggg 858

<210> 1170
<211> 396
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (380),(381)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1170
gactcgtcat cgcgcttccg cttcttgcca gccgctagga gcgatatttc gctgtcactt 60
tcgctttcgt catcgctacc caggaactcc ttcagctcgt cgtgcactgc agcttgctct 120
tcagcgtcat acccaatggg ggacatctcg ttgagtccgg agaatttcag aatctcttcg 180
ttgaattgcg acccctcatc gtcatccgtc cagaatccac cagtttcatc gtctgatgac 240
gacagccagc cgctttcaag ctcttttgac ccaggcgaaa ttggctcgcc ccgatcatcc 300
ggatgcacag gaagcaggta cggttcctcc tccaaccgtt tccagtctta caccagccgg 360
gatcgaagca caagcgtacn ncaatcccgg gcccca 396

<210> 1171
<211> 627
<212> DNA
<213> A.fumigatus

<400> 1171
gactggaaac ggttggagga ggaaccgtac ctgcttcctg tgcatccgga tgatcggggc 60
gagccaattt cgcctgggtc aaaagagctt gaaagcggct ggctgtcgtc atcagacgat 120
gaaactggtg gattctggac ggatgacgat gaggggtcgc aattcaacga agagattctg 180
aaattctccg gactcaacga gatgtccccc attgggtatg acgctgaaga gcaagctgca 240
gtgcacgacg agctgaagga gttcctgggt agcgatgacg aaagcgaaag tgacagcgaa 300
atatcgctcc tagcggctgg caagaagcgg aagcgcgatg acgagtctca aggcacagat 360
gaagacgagt cggacggtgg tcaaggcgaa gagggagaga tggagggctc gcgcctgtcg 420

cagcggatca aacggtccta tgagcgtact acggggctta aagaggttgc aacggctgat 480
accacaagca cagcggaatt aacacacact agcttgccaa aggaacgtag tggtggagag 540
acggatgacg cgttgaacga tttgaacgag tcagaggagc ccgcggtcct tcacctcgga 600
gtgcacgtgc ccgacatatt taaggga 627

<210> 1172
<211> 249
<212> DNA
<213> A.fumigatus

<400> 1172
ttggtggcaa aactagacaa aggcaacatt gcagctcatt cccggctaaa cccagagagg 60
cgagaccata acggcgcata ttggattggt tcctcatccc tgagtcttgt tctagttagc 120
gcggccatat gtcttgcttc tagtctcaca cctacaatgt caattatagt gatgtttcag 180
tggtattttc tgctgataac taacctgagg acctacgttc tagatggggc ggcgacactc 240
gattgctga 249

<210> 1173
<211> 348
<212> DNA
<213> A.fumigatus

<400> 1173
agcaggacct gcgcgcactc atacaggcca tcgagatata ttggagagcc tgctgaccaa 60
acacttcgga caccggactt tatccaccat actgacggct atccatgcta tgacgatgca 120
gcgcccaaaa tcaagcagta ctgtcccaga tttgaggcag actttaacca catacccatc 180
tccgagagtt cacttataat ccgtggcatc caagcattgg ttgcaatggc tactcaagag 240
cacaagaaaa cccttggcca cgccgtgaag ctgcattcta tcgttgctga tattcatgtc 300
gatatcatga ccatgatcgt tgtcttgatc ggccgccgcc atcattag 348

<210> 1174
<211> 486
<212> DNA
<213> A.fumigatus

<400> 1174
gcccctgagg aaccaaaaaa gccggccctc ccggaaattg ttaaaaagtt ctcgcggcgc 60
acggtgcgtg tcacaagaga gcacaatgcc gaatgcaaaa aactgttgaa gttgatgggt 120
atcccgtaca tcgacgctcc gactgaggca gaggcccagt gtgctgtgct tgcgcgggca 180
gggaaggtct atgccgctgc ttccgaggat atggacacgt tatgtttcga agcgccaatt 240
cttctcaggc atcttacgtt cagcgagcag agaaaggaac ccattcaaga gatccatctg 300
aatcgtgctc tagagggact cggcatggat cgcaagcagg taggcgactg gcttctcccc 360
agaatccctt catggatacg atcttctcat gcttacaccc ggctgcacag tttattgatc 420
tatgcattct tctcggctgt gactatctgg aacctatccc aaaggtcggg ccaaacaccg 480
ctttga 486

<210> 1175
<211> 690
<212> DNA
<213> A.fumigatus

<400> 1175
ggcagaggcc cagtgtgctg tgcttgcgcg ggcagggaag gtctatgccg ctgcttccga 60
ggatatggac acgttatgtt tcgaagcgcc aattcttctc aggcatctta cgttcagcga 120
gcagagaaag gaacccattc aagagatcca tctgaatcgt gctctagagg gactcggcat 180
ggatcgcaag caggtaggcg actggcttct ccccagaatc ccttcatgga tacgatcttc 240

tcatgcttac acccggctgc acagtttatt gatctatgca ttcttctcgg ctgtgactat 300
ctggaaccta tcccaaaggt cgggccaaac accgctttga aactcatccg ggaacacgga 360
agcttggaga aggtggtcga ggcgatcgag aacgacccga agaagaaata cgtcatacca 420
gaatattggc cctatcagga tgcgagggaa ttgttcctcc atccagatgt gcgagaagct 480
gatcatcccg agtgtgactt caaatgggag gcgccagatg ttgaggctct ggtggagttc 540
ctggtcaagg ataaaggttt caacgaggat cgggtccgca acggagctgc gcgcctgcag 600
aagaatctca aaacagctca gcaatcacgg cttgagggct tcttcaagcc ggtcgcgtct 660
tcaccacggg gctggaagga gccgctccat 690

<210> 1176
<211> 486
<212> DNA
<213> A.fumigatus

<400> 1176
atcagaatgc cacgcaaggc aattgattcg cgcattcccg cgctcattcg gaacaatgta 60
caagaaaaga agagaagctt cttcgtggtg gtcggcgacc gcgccaagga tgtgattgtc 120
aacctgcatt acattatgtc cagcgtcgat gtcaagcaga ataaatcggt cctctgggca 180
tacaagaaag acctcctcgg attcacaagc catcggaaga agcgagaagc gaagatcaag 240
aaggaaatca agcgaggaat cagagaacct aaccaggagg acccttcga gctttttatc 300
accctcaacc agatccgata tgtgtactac aaagagacgg agaagatttt gggtaatacc 360
tacggaatgt gcattctaca agatttcgaa gctatcacgc cgaacctgct tgcccgtacc 420
attgagaccg tcgaacgagg tggtatcgtg ttgcttctgc tcaagggaat gaagagcttg 480
aagcag 486

<210> 1177
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1177
aagacgaacg gtttcagcct gaaccctgtc gttctctctc ccaaggccac cgttggagag 60
gctaaggcgc tcaaggccaa atggggcttc ggaggcttcc ccgtaacagg taagcacaca 120
atcttgcttt ctctcagctg tcacccctac atgatgattc tccaacctat ctcttataac 180
tttcgttcca gtggagcaac gagagttgcg atgtacaaaa actattttat ctga 234

<210> 1178
<211> 699
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (342)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1178
tttacctccg tcacaatcac tgttcgcaag ccattgtcta atctgtgttt tgtgacagaa 60
aacggaacac tccgctccaa gctcgtcggt atggtcacat ccatacatat ccagttccac 120
accaacctcg atgatccggt cactgcaatt atgtccaccg accttgtcac cgcacctgcc 180
ggtaccactc ttgccgaggc caacgatgtt cttcgtagct ccaagatagg aaaactcccc 240
atcgttgatg cagacggaaa ccttgtctct ttgctgtctc gcagtgacct gatgaagaac 300
ctccactacc cattggcatc taagcttccc gattcgaagc anctgatctg tgctgctgcg 360
attggtactc gtgaagagga taagcacaga ctcaagcttc tcgtcgaagc tggtcttgat 420
attgtcgtcc tcgacagcag ccagtgtaac agcatctacc aaatcgagat gatcaagtgg 480
gtgaagaaga cattccccga aatcgacgtc attgccggca accttgtcac tcgggaacag 540

gccgcagctc tgattgctgc cggtgccgat ggcctggaaa attggcttgg gctctggcat 600
tcccctgcca ttcccccaaa aattcttggt ttcggtcct cccgaggccg ttgccgttcg 660
caagttgttt ccttggctgc tcaatccggt gtcctctga 699

<210> 1179
<211> 738
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (370)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1179
cccctcgggg aatcagagga caccggattg agcagccaag gaaacaactt gcgaacggca 60
acggcctcgg gaggaccgaa aaccaagaat ttttgggga atggcagggg aatgccagag 120
cccaagccaa ttttccaggc catcggcacc ggcagcaatc agagctgcgg cctgttcccg 180
agtgacaagg ttgccggcaa tgacgtcgat ttcggggaat gtcttcttca cccacttgat 240
catctcgatt tggtagatgc tgttacactg gctgctgtcg aggacgacaa tatcaagacc 300
agcttcgacg agaagcttga gtctgtgctt atcctcttca cgagtaccaa tcgcagcagc 360
acagatcagn tgcttcgaat cgggaagctt agatgccaat gggtagtgga ggttcttcat 420
caggtcactg cgagacagca aagagacaag gtttccgtct gcatcaacga tggggagttt 480
tcctatcttg gagctacgaa gaacatcgtt ggcctcggca agagtggtac cggcaggtgc 540
ggtgacaagg tcggtggaca taattgcagt gaccggatca tcgaggttgg tgtggaactg 600
gatatgtatg gatgtgacca taccgacgag cttggagcgg agtgttccgt tttctgtcac 660
aaaacacaga ttagacaatg gcttgcgaac agtgattgtg acggaggtaa atcattatgc 720
gttgtcgatt tcagataa 738

<210> 1180
<211> 264
<212> DNA
<213> A.fumigatus

<400> 1180
cactccccgc atcacagcaa gctcgacgac catcttcgct ctttagactc tcaaatccac 60
aagtctagcc taatatctgc tttgcatctg tcatcggaca aaatggagcg gccgaacaag 120
ccctcagcca ttggtgtggc tgcatcacta ccccagccca ccatcacctt ccgccaaaac 180
aagatcgagg ccaccttgcc caccggcgag tcagtcaccg ttcacttata tggagcaact 240
gtcacctcgg tcttcaccac gggg 264

<210> 1181
<211> 618
<212> DNA
<213> A.fumigatus

<400> 1181
ttccgcggat ccttccagcc ccgtgtgaag accgcggctt ttgccaaggc tgtccgtgcc 60
aacaagggtt gcttgatcat ggacaccacc tggcgtgatg cccaccagtc gctgttggct 120
actcgtgtcc gcacgatcga tctgctgaac atcgccaagg aaaccagtca cgcgtacgcc 180
aacgcttaca gtttggaatg ctggggtggt gccactttcg atgtcgccat gcgcttcctc 240
tacgaggatc cctgggaccg tctgcgcaag ctgcgcaagg ccgtgcccaa cattcccttc 300
cagatgctgc tccgcggtgc caacggggtc gcctactcgt ctcttcccga caacgccatt 360
taccacttct gcaagcaggc caagaagtgc ggtgtcgaca tcttccgtgt tttcgatgcg 420
ctcaacgacg tcgaccagct cgaggtcggt atcaaggctg tgcaggccgc cgagggtgtc 480
gtcgaggcga ccatctgcta cagcggagac atgctgaacc ccaagaagaa gtacaacctc 540

gagtactacc tggaggagcg ggaacacact gtaagactga tccctgacat cctaggggta 600
tcggatttga acatatga 618

<210> 1182
<211> 369
<212> DNA
<213> A.fumigatus

<400> 1182
acatcgccaa ggaaaccagt cacgcgtacg ccaacgctta cagtttggaa tgctggggtg 60
gtgccacttt cgatgtcgcc atgcgcttcc tctacgagga tccctgggac cgtctgcgca 120
agctgcgcaa ggccgtgccc aacattccct tccagatgct gctccgcggt gccaacgggg 180
tcgcctactc gtctcttccc gacaacgcca tttaccactt ctgcaagcag gccaagaagt 240
gcggtgtcga catcttccgt gttttcgatg cgctcaacga cgtcgaccag ctcgaggtcg 300
gtatcaaggc tgtgcaggcc gccgagggtg tcgtcgaggc gaccatctgc tacagcggag 360
acatgctga 369

<210> 1183
<211> 489
<212> DNA
<213> A.fumigatus

<400> 1183
tgcccaccag tcgctgttgg ctactcgtgt ccgcacgatc gatctgctga acatcgccaa 60
ggaaaccagt cacgcgtacg ccaacgctta cagtttggaa tgctggggtg gtgccacttt 120
cgatgtcgcc atgcgcttcc tctacgagga tccctgggac cgtctgcgca agctgcgcaa 180
ggccgtgccc aacattccct tccagatgct gctccgcggt gccaacgggg tcgcctactc 240
gtctcttccc gacaacgcca tttaccactt ctgcaagcag gccaagaagt gcggtgtcga 300
catcttccgt gttttcgatg cgctcaacga cgtcgaccag ctcgaggtcg gtatcaaggc 360
tgtgcaggcc gccgagggtg tcgtcgaggc gaccatctgc tacagcggag acatgctgaa 420
ccccaagaag aagtacaacc tcgagtacta cctggaggag cgggaacaca ctgtaagact 480
gatccctga 489

<210> 1184
<211> 591
<212> DNA
<213> A.fumigatus

<400> 1184
gatgtcaggg atcagtctta cagtgtgttc ccgctcctcc aggtagtact cgaggttgta 60
cttcttcttg gggttcagca tgtctccgct gtagcagatg gtcgcctcga cgacaccctc 120
ggcggcctgc acagccttga taccgacctc gagctggtcg acgtcgttga gcgcatcgaa 180
aacacggaag atgtcgacac cgcacttctt ggcctgcttg cagaagtggt aaatggcgtt 240
gtcgggaaga gacgagtagg cgaccccgtt ggcaccgcgg agcagcatct ggaagggaat 300
gttgggcacg gccttgcgca gcttgcgcag acggtcccag ggatcctcgt agaggaagcg 360
catggcgaca tcgaaagtgg caccacccca gcattccaaa ctgtaagcgt tggcgtacgc 420
gtgactggtt tccttggcga tgttcagcag atcgatcgtg cggacacgag tagccaacag 480
cgactggtgg gcatcacgcc aggtggtgtc catgatcaag caacccttgt tggcacggac 540
agccttggca aaagccgcgg tcttcacacg gggctggaag gatccgcgga a 591

<210> 1185
<211> 303
<212> DNA
<213> A.fumigatus

<400> 1185

gcgcatcgaa aacacggaag atgtcgacac cgcacttctt ggcctgcttg cagaagtggt 60
aaatggcgtt gtcgggaaga gacgagtagg cgaccccgtt ggcaccgcgg agcagcatct 120
ggaagggaat gttgggcacg gccttgcgca gcttgcgcag acggtcccag ggatcctcgt 180
agaggaagcg catggcgaca tcgaaagtgg caccacccca gcattccaaa ctgtaagcgt 240
tggcgtacgc gtgactggtt tccttggcga tgttcagcag atcgatcgtg cggacacgag 300
tag 303

<210> 1186
<211> 330
<212> DNA
<213> A.fumigatus

<400> 1186
gcggacctct ctattacatc ggttctgaag agaaagtttc atctatctgg cgtcatttta 60
ttgttcttcg gtacaattca aatcatggag tacgtttttg gaaccctgag cctactgctc 120
ccagttttgg atcttataag aaaagggaaa aggagtatca gagatatgaa gcagttgcta 180
cagaatgaga gcgatatgga gaagctggtc ttttcattga aaaagctatt ggatgggctt 240
aaaggagtgt cttttgatga agatatcccc gaattgcaca aagaccttta catctcactc 300
gagaaaaaaa tgtacgagtc tatacgatga 330

<210> 1187
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1187
gagttcgctg cccagatgaa cctcaacctc ggcaacggat ggggtatcgt ccgtactatc 60
gtcgaccgta tccgcgccct cgacgctgaa gaggaggagg acaaggtcaa gaagtacgtc 120
ctcatcaagg accccaaccg ccctgtcatc cgtctgtaca gcgtgccccc caatactttc 180
gaggaggacg acgaggccgc cgaggagcag gaggagaagg ccgaggacga gtctgaggag 240
tag 243

<210> 1188
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1188
attgtcatta tcattgaatt ttgtacgttg tcatatcaga atattatcct ccagctaaac 60
tatattaatc aagcttgttc caaaatcaac tttaaccaac accatacatt tccagagttc 120
cgttcccaaa cagctactcc caccacacaa cataggcaac cagaccaggt atggaaacta 180
gcccattcat ga 192

<210> 1189
<211> 480
<212> DNA
<213> A.fumigatus

<400> 1189
cattaccggc gtggatgctt ctgctgggcc gccacccatg cctcccgatt cgaaccatcc 60
aagttccaac tcattcactt tcacccccc gggcaggggc cccgcggcgg ccctggcgaa 120
ccactgaacc ttggcgacgg gcagatcatc gaggccagcg cgacagccag gctcctaggc 180
gtcattcttg accaacgcct caccttgag tcacatctca agcatgtgga caccgcagct 240
acccggcgtc tgcaggcaat cagcgcgctg ggcggctcta aatggggctt gcgcctccgg 300
gagctgcggc atgtctacac agcctgtatc accccaatca tgctatacgc ggcctcagta 360
tggtacgcgc ctccggttcg gggccggaag cgcctccaca gccaacagac aaaggtgtta 420

aatcagatcc agcgccgggc tgggaagctg atcgcgggag ccttccgaac agttaagtag 480

<210> 1190
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1190
ggcggttctg cgagtgagga gcactcttct ctctctctgt ggttgtattc ctctgcctgc 60
ctgtctgagc ttgacaccca gcattgggct tgggcttcag tcattctaga ctccgaagcc 120
tgccacagca aggtaagaga tcagacctac cagtaccaag aggcggagaa gaaccagcag 180
atcccgttcc cacggtgtat cggcccttct gccaaaagag acgcacggtc ttctacccag 240
aagatcctac tcccatggta g 261

<210> 1191
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1191
acttttagcc gatccacatc tttattattt tttatttata ttttaattat tatttttatt 60
tattacaatt atttttgccc ctctctcgtc ctccctttt ttttttttt ttttttttt 120
ttttttttg ggggggggg ggtcctgcgt ggtatcattt gctataattt ccatttcctt 180
tga 183

<210> 1192
<211> 1107
<212> DNA
<213> A.fumigatus

<400> 1192
ctaaccattg ttccacaccc aaggcactcc aaacctgatg ctagcgaagg gcagtggacg 60
catgatctgc acgagacggt cgcaggcgat gaacccacca acaagccctc tgccgtacca 120
gaatccatgt cggactttgc cccaaaacct gtccctacgg cccctcgttc tacgcccccg 180
aacaggtctt tctcgagcac caccctgatc ggcaatgtgc ctgttgtagt gtttctgcag 240
ggcatggctc ggcccatacc tttccctgcc gttccaaaaa agcaacacac tcgtctccct 300
caacatcgtc ccccattgcg tcgagacaag cccgttcgca tatcgttacc tggacagtct 360
cctagataca tattcccctc gacagagcgc tcgttcatct ttattccccg agcgctgatg 420
ccaaatcagc agggttaccg tggcaggggc cggggtgggt tttatggcgg acgccgtccg 480
agtttttatg caggctccgt ctacacccca agcgtcaccg ctagccgaag atcgtcgatg 540
ggaaagccag cttctcatga tggataccc tcgccggctg cgtccgtatt gtcaagacat 600
acggtggtta cgaccgaaaa tgggaagcca atcgtccgtc tgcctccacc ttccaggcca 660
ttaggcggcg tgccaccagc agccgctgct actggtcccg cagccgttgt tcccgcgtca 720
ctgccacaac ctatgcctca accccagccc caacagccct cgtaccgcga gagccgtccg 780
gctcccattc caatgcatca gccgcgtcct cagaaagcgg tttctgtcgc cgatatagag 840
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caggttccta tgcctatcaa tgggcccggc tatggtgctg atgttcaatc tgcccatgca 960
gctgggacgc cttcatcaca catacccgag cgagcaatcc atgctcaacc tttccagcca 1020
tatggcttcc aacaagccca gccattttat cctgccgctt atccccccgg tcttcaccac 1080
ggggctggaa ggatccgcgg tggtcta 1107

<210> 1193
<211> 1122
<212> DNA
<213> A.fumigatus

<400> 1193
aacttatata caatctatga cggccctcac ggaactctag aaatggggcg tattcaacgc 60
catcaaacac aacaaccctc caatcagccc ggcagaaggc aacgtcaaca cccacccact 120
gaagataaag cccaactgcc tccagttcac cgctcccaga tcataattca tcagcgccac 180
cccagtagcc gcacccgtca agcactgggt cgtcgacacg ggcaacccca gcctggacgc 240
caacaacacc gtgatggccg cgcccagctc cgtcgcaaac cctctggtcg gcgacatctg 300
cgtgatcttg ttacccagcg cccgcacgat attatacccg tagaaccaga accccagacc 360
cagcagcaag cccgcaatca caaggaacca caccggcgtc ggcgcctcgg tatctaccgc 420
gccagcacgg tacgtcgcat acacggcggc ccacggcccc accgcattcg ccacgtcgtt 480
gctcccgtgc gcaatcgaca tcatcatggg cgagaccacc tggcagtagg tccagaagtg 540
ctcgacgcgg tcgtcgtagc ggcgcgcgcg cgagtggatg tcgcgcagca gggcggagtc 600
gtgcgtgacc acgtcgcggg tgacgccctg caggaggcag aacttgatcc agccgagcca 660
tttccggggg tgtgtccagg ggaggtcggc gaccgggtgg aggaagcgtt cgtgcgggcc 720
gaggtgtttc ttgcggggtt tgagctccgg ggtggattgg gcggagtcgg ctgtgcgttc 780
gatgtcgtga gtggactcga ggaatttggt gtcggtgggt tgggattgtt gcggttgctg 840
ctcggtggtg tggaggtggg ctttcgcgcc ggcgaggact tcgccgtagg cgtcttcgta 900
gtagtttgtg acgaatttgt cgccttggcc ggggaagtag agcgtgcatg tatccttgag 960
aagccatggg ccgaggggga ggtggtagac gcggacgcgg gcgtcctgct tgacgaggcg 1020
gcggtggaag tatgggagga agaagactac tccgatgaag aggcagtcga agaagacgcc 1080
caggatgatg ccgaccgctt tgccggcgcc gaattcctct ag 1122

<210> 1194
<211> 543
<212> DNA
<213> A.fumigatus

<400> 1194
tcttcttcct cccatacttc caccgccgcc tcgtcaagca ggacgcccgc gtccgcgtct 60
accacctccc cctcggccca tggcttctca aggatacatg cacgctctac ttccccggcc 120
aaggcgacaa attcgtcaca aactactacg aagacgccta cggcgaagtc ctcgccggcg 180
cgaaagccca cctccacacc accgagcagc aaccgcaaca atcccaaccc accgacacca 240
aattcctcga gtccactcac gacatcgaac gcacagccga ctccgcccaa tccaccccgg 300
agctcaaacc ccgcaagaaa cacctcggcc cgcacgaacg cttcctccac ccggtcgccg 360
acctcccctg gacacacccc cggaaatggc tcggctggat caagttctgc ctcctgcagg 420
gcgtcacccg cgacgtggtc acgcacgact ccgccctgct gcgcgacatc cactcgcgcg 480
cgcgccgcta cgacgaccgc gtcgagcact tctggaccta ctgccaggtg gtctcgccca 540
tga 543

<210> 1195
<211> 852
<212> DNA
<213> A.fumigatus

<400> 1195
cgcagcgacg agcgcaatcc tagccctctt catcgtcgtc gaagccccca ccgccccctc 60
cctagaggaa ttcggcgccg gcaaagcggt cggcatcatc ctgggcgtct tcttcgactg 120
cctcttcatc ggagtagtct tcttcctccc atacttccac cgccgcctcg tcaagcagga 180
cgcccgcgtc cgcgtctacc acctcccccc cggcccatgg cttctcaagg atacatgcac 240
gctctacttc cccggccaag gcgacaaatt cgtcacaaac tactacgaag acgcctacgg 300
cgaagtcctc gccggcgcga aagcccacct ccacaccacc gagcagcaac cgcaacaatc 360
ccaacccacc gacaccaaat tcctcgagtc cactcacgac atcgaacgca cagccgactc 420
cgcccaatcc accccggagc tcaaaccccg caagaaacac ctcggcccgc acgaacgctt 480
cctccacccg gtcgccgacc tcccctggac acacccccgg aaatggctcg gctggatcaa 540
gttctgcctc ctgcagggcg tcacccgcga cgtggtcacg cacgactccg ccctgctgcg 600
cgacatccac tcgcgcgcgc gccgctacga cgaccgcgtc gagcacttct ggacctactg 660
ccaggtggtc tcgcccatga tgatgtcgat tgcgcacggg agcaacgacg tggcgaatgc 720

ggtggggccg tgggccgccg tgtatgcgac gtaccgtgct ggcgcggtag ataccgaggc 780
gccgacgccg gtgtggttcc ttgtgattgc gggcttgctg ctgggtctgg ggttctggtt 840
ctacgggtat aa 852

<210> 1196
<211> 1149
<212> DNA
<213> A.fumigatus

<400> 1196
ctcgcagcga cgagcgcaat cctagccctc ttcatcgtcg tcgaagcccc caccgccccc 60
tccctagagg aattcggcgc cggcaaagcg gtcggcatca tcctgggcgt cttcttcgac 120
tgcctcttca tcggagtagt cttcttcctc ccatacttcc accgccgcct cgtcaagcag 180
gacgcccgcg tccgcgtcta ccacctcccc ctcggcccat ggcttctcaa ggatacatgc 240
acgctctact tccccggcca aggcgacaaa ttcgtcacaa actactacga agacgcctac 300
ggcgaagtcc tcgccggcgc gaaagcccac ctccacacca ccgagcagca accgcaacaa 360
tcccaaccca ccgacaccaa attcctcgag tccactcacg acatcgaacg cacagccgac 420
tccgcccaat ccaccccgga gctcaaaccc cgcaagaaac acctcggccc gcacgaacgc 480
ttcctccacc cggtcgccga cctcccctgg acacaccccc ggaaatggct cggctggatc 540
aagttctgcc tcctgcaggg cgtcacccgc gacgtggtca cgcacgactc cgccctgctg 600
cgcgacatcc actcgcgcgc gcgccgctac gacgaccgcg tcgagcactt ctggacctac 660
tgccaggtgg tctcgcccat gatgatgtcg attgcgcacg ggagcaacga cgtggcgaat 720
gcggtggggc cgtgggccgc cgtgtatgcg acgtaccgtg ctggcgcggt agataccgag 780
gcgccgacgc cggtgtggtt ccttgtgatt gcgggcttgc tgctgggtct ggggttctgg 840
ttctacgggt ataatatcgt gcgggcgctg ggtaacaaga tcacgcagat gtcgccgacc 900
agagggtttg cgacggagct gggcgcggcc atcacggtgt tgttggcgtc caggctgggg 960
ttgcccgtgt cgacgaccca gtgcttgacg ggtgcggcta ctggggtggc gctgatgaat 1020
tatgatctgg gagcggtgaa ctggaggcag ttgggcttta tcttcagtgg gtgggtgttg 1080
acgttgcctt ctgccgggct gattggaggg ttgttgtgtt tgatggcgtt gaatacgccc 1140
catttctag 1149

<210> 1197
<211> 300
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (118)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1197
aaagtcaagc ttcgctacca agtgctacaa cagcgtgaga actacgagcg ctgggcagaa 60
tggaaagatg acatcgtccg ccacgagcgt gagcaggata gattagccgc tgcgaaanag 120
gagagaatct cgcgtgaagg cgctcagaag catgcgtctc ggaactcggt atttggtgat 180
ttccccaagg gtctagggca cggcatgatg ggcgccgctt ggcagatact gggcatgcaa 240
catgctggtc acaaagcctt tgaccagcct atcgagactt ctctggcgcc ttcttattaa 300

<210> 1198
<211> 687
<212> DNA
<213> A.fumigatus

<400> 1198
attctgagga atgaggagtt gatcagggtt gatcaggatg tgttggggtt gcaggcgacg 60
ctggcgagcc gagggttgga agttgatgtg ttgacgagga gtttggaagg tggggatcgg 120

ctgatcacgg tcttgaatag gggagatggg gtcgcggtgg ttagtgtgcc ggttgagtgg 180
atggggttgc agagaggttg tccgtatgtg gttaaaaacc tgtgggatgg ggaggtgcag 240
gtgctggagg aggagatagt gatcaggctg aactcgcatg ctacgcaagt gtaccggatc 300
gctttgccgg atgagtgctc taccgtcatt cctactggga tcgtgttcaa tacggcatcg 360
gggaactgtc tcacggacga gaacggcgag agggttgggt tcgaggcttg cagaggatcg 420
gagacgcaga tttggcaggt aagcgagctg ggatatctac gtccgctctc taggacatcg 480
cattgcttga ctggagggag tcaagcctct gtccagttgt gcactgagca gaagaaccag 540
caatgggctt atgcgataac aggcattctc aagaatgaac acacagagat gtgtttgacg 600
gagggaactg gaatatctca atgtggattt gagcgagata gtcaggtatt cggtctgccg 660
agtggtgtaa acatcaagcc cagttag 687

<210> 1199
<211> 507
<212> DNA
<213> A.fumigatus

<400> 1199
tatcggagac gggcgaccgc gccgccaaac gccggagaca ttcctccgac gagggtcccg 60
aacccgtcta cgacgacacc gtcttctacc agtccctgct ccgggacctc gtcgagcagc 120
gcatgtcgtc ctccgacgcc atcacgaacg gcatcgacac cctccacctc cagctgccgt 180
cccggcaagg catccatcct attaccggca tgcgcaagga caaggtcaaa cgggacgtgg 240
acacccgcgc ctccaaaggc cgaaagatgc ggttcgatgt ccacgagaag ctgcagaact 300
ttatggcgcc tgaagaccgc ggcacgtgga ccattaccgc tcgcgaggag ttcttcgctt 360
ccctgcttgg aaagacagca agtgggttat tgcgcgaagg ggacgatgag gatgccagtt 420
ctgcggagga aagcgatgag gatcgtgaag aggttgggtt gcggctgttc cgcagctagc 480
cggctgccgg tcagtggata tacctag 507

<210> 1200
<211> 519
<212> DNA
<213> A.fumigatus

<400> 1200
ggtctaacgc atgcttggat ccttccaggc cggtggttaa tatcggagac gggcgaccgc 60
gccgccaaac gccggagaca ttcctccgac gagggtcccg aacccgtcta cgacgacacc 120
gtcttctacc agtccctgct ccgggacctc gtcgagcagc gcatgtcgtc ctccgacgcc 180
atcacgaacg gcatcgacac cctccacctc cagctgccgt cccggcaagg catccatcct 240
attaccggca tgcgcaagga caaggtcaaa cgggacgtgg acacccgcgc ctccaaaggc 300
cgaaagatgc ggttcgatgt ccacgagaag ctgcagaact ttatggcgcc tgaagaccgc 360
ggcacgtgga ccattaccgc tcgcgaggag ttcttcgctt ccctgcttgg aaagacagca 420
agtgggttat tgcgcgaagg ggacgatgag gatgccagtt ctgcggagga aagcgatgag 480
gatcgtgaag aggttgggtt gcggctgttc cgcagctag 519

<210> 1201
<211> 429
<212> DNA
<213> A.fumigatus

<400> 1201
cttagtctca tagatctcgg aggcgacaga ttcggatcat ttgtattgga ttactttaag 60
cacgtgtctc gaccaacact taagcatatg ggactgtcgc ttcttcgcaa gaccgcatct 120
ccccatgaca ccctctttta cacggtctgt gtcaattcaa tggcctacaa gttcataaat 180
tgcctgttga tggatgagga tgatggccag ctttcccaga tgctacggga acgcgctgcg 240
aagtacaagc gaactgccca gaatgcgttg aggagaatcc cactcctgac atcaccttcc 300
cttgctcttt tacaggccac tctttgcggc gtgagtcata aaacatttcg tttcttctgt 360
cacaatctga cagagagcag attttcctat gccaggggtc aggtgagact cagctgtgct 420

gtgatttga 429

<210> 1202
<211> 318
<212> DNA
<213> A.fumigatus

<400> 1202
agaatcttca ttcacgttga cgagcacctt acgagggact atttggacct aaataagaag 60
agcatcggtt ccgtactcac agttcacctg caggatggtt cagaactggc cgaagttctg 120
atagagtacc cagccggcca cgtacgaaat cctgccacag ctcgagcggt gcaagaaaag 180
ttcaccaaaa acatgcggtt aatgtttacc gagacagaaa tctcgaagat cctccaagag 240
actaggaagg acaacctact catcatggat ttcgtcgatc ttttcgtgaa gcaatcacca 300
ccaggtccga gattgtag 318

<210> 1203
<211> 261
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (35)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1203
gccaaacatt tggtccgaac agtttcaata cgttntccga ttggaacatg ggggagccgg 60
ataatggaaa tttggatgcc cttaaacaca atatttgcta gtgggggccc agctgagcag 120
tattgcggga actgggatta tggattgccg cttagcagag catacgcgga atactttggt 180
ggcagtatcg ctattcagag tctgtggggc tgggggacgg atgtttatct tactcttcaa 240
ggagttggca agattgagta a 261

<210> 1204
<211> 894
<212> DNA
<213> A.fumigatus

<400> 1204
ccacgaggtc aacaagatgg ccatgctgga gagggtagag gtgagtctag ccggtctgtg 60
tatgaaggac tcgctgactc aatcctgcag aaccgcttca atattcaact tcatgcgccc 120
gccgttgttc tgctctatct gactacacgc aaatatgttc tgagcagtat gtatccgtat 180
atgacgcttc tgggacagtc tctcggctct ctggtggttg cctatgacgc cttcaacctg 240
ctcgtcccgg acgtgttcat cgacactatg ggctacgcat tcacccttgc gttctgcaag 300
atgctttttc cctctgttcc taccggtgca tacgtccact atcctaccat ctcgaccgac 360
atgcttcaat ccctggatga cagcaccggc ctaaaagggg tcaatgcggg cgcgggcaag 420
gggttcaagg gccaggtcaa gcgcaagtac tggttggcgt ttgcccgtct ctacggttgg 480
gtcggaggtc atgttgatgt cgtcatgtgt aactcttcct ggacatcggc ccatatccgg 540
accatctggg gcccctcacg gacgagcatg accttcaaag agcccaccgt catcttcccg 600
cccaaggcag tgtcagagat cgagtcgacc atcactgtcg atgaggactc ggagcgcagc 660
cgggaaccca tcatccttta tatcgcccaa ttccggcccg agaaaaaaca cccgctggtc 720
ctgcgtacgt tcgcccgctt cttcattgag cggaagacga aacccccctc gggcgccctc 780
ccccagccaa aaacgggtcc tcatggggtt cggtccgtca ctcccagccc cgaaaaaaac 840
ccacctctta taaactccgg ccggctggcc caacaaaact ccggcatccg ggga 894

<210> 1205
<211> 651

<212> DNA
<213> A.fumigatus

<400> 1205
aaacggccca cggctgagaa tgcctctgca aatgtggaag ccgaggttct agaccatttc 60
ggtcagtttg ccaacagtga gaaacttaaa ttgcaagagc ggcgccgtaa ccaggcatcg 120
tatgaccgga cggtgaagct gaacgagttg atgaaattct ccaagaactt caagcttgct 180
acacctgtcc ccaaggacat ggtacgtatt cttgcgaagg acccacagaa gcaggaggaa 240
attattcaga gagctcaaca acaggcggag gagaagttgg cctcaaagac tgcctcggga 300
gtcactgagc agaagcccac atctcgtgtc agtggaacag tgcagaccac tacacagccc 360
gagcgcccca attatcctcg cggtcgccag atgtaccctc ccaccggccc gcaagctggg 420
cccgctgggc ggctcccacc ccaaggaatg cacccaggtc gtccgggcac tggtatgctc 480
agtcaccggc tggctgataa cctgcaacag cggaagggag cagcaatggc gcctgtgccc 540
acgcctttgc cgatccagga ggttcgcatt cctcctagtg gccgtgcggc agatcaaccg 600
ggcgtatcca gcccgaataa gacgcagacg cttacctctg agaactcgag c 651

<210> 1206
<211> 630
<212> DNA
<213> A.fumigatus

<400> 1206
cggggattag atccgatcct agtgcagcag atcaagcgat ggaatcggac ggcggcggtc 60
ccaaccacgg gaatgatccc gcggctggcg ttgcggtcgg tgcatgacga gaacgtgcgt 120
cgggaggttt atctcgccag ccgaacgtcg agcaagcgac agctccatcg gctggaggag 180
ttgctcctca aacgagcgga gctggcgaag ctgtccggct atgagagttt cgcgcacatg 240
acgctcagcg acaaaatggc caagagtccc gaggcggtct cgaatttttct gacggccctg 300
gtggagagca atcggaagct ggtccgggag gaactgtcgc agctgcaggt catgaagggc 360
gccccgctcc agccctggga tcacgcgtac tatgttcacc aacgagtgct gcagtattcg 420
caggcgcggc ggtcccgcga actgagtgcg gttcccgagt ttttctcgct ggggaccgtc 480
atgcagggtc tgtcgcgact gtttgaccgg ctgtacggcg tgcggctggt gccccaggag 540
cccgctccgg gggagacgtg gaacccggac gtccgacggc tggatgtggt gtcttcacca 600
cggggctgga aggatccgag cggggttcag 630

<210> 1207
<211> 426
<212> DNA
<213> A.fumigatus

<400> 1207
cgttggatgc gcgcaatgca tgtagacgcc tttttcgaat actgccttgg ccatcctcat 60
ccgtactaca cccagcttcc ggcctctaat gccgcggtca gtgacactcg cgacggcgta 120
ccgctagaag aagaccttgc cttgcgtgcg cttgtccctg agtggaaacc gaaacgtggg 180
cgcaaacggg ccgatgaaag ggagcaagct aacgagaagc caacgaaacg acctcagcta 240
gatacgtccg tgggggtgtt gcacgcgggt tcatttacag atcagtctgc aacatttccg 300
caaaacgcca tcccatttag tgctttccct gacaacgatc catggatgac cgctgcatcg 360
tcattcccag ctgatggatc taccgacaac cagcaaggcc aagagcttcg gtggagacct 420
ctagag 426

<210> 1208
<211> 942
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (786)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1208
acgcggatta tcacccgtgg tggaagacag acggtactct tcaaggatca gctggttgag 60
gagagcctct tctcgggtga cgacgacgat gcacattttc ataaggagac taagcctacg 120
tccgcaaagt ggcctatcct tgacgcgccg ccagacgtgg tctttcaaaa attaaaggaa 180
gtcgatcccg ttatcgccag tcggtggcat ccaaacgacg tgcgcaaaat ccgacgatcc 240
ttggagattt actttcagac cggcaagccg gcctccgaga tttatgcgga gcagaagcgt 300
cagaaatatg cgacagggac aaatggagag tcttccccgg gtataggaca gctccgttac 360
ccgacactga tattctgggt gcattcagag aaggagactt tgaactgccg gcttgccaaa 420
cgcgtagatt ctatggtgga acaaggcttg atggcagagg cccaaagaat gtgggcttat 480
attcgggaga aaaaagggca aggcattact gtcgatcaaa caagaggagt ctgggtctcc 540
atcgggttca aggagttagc accctacttt gacgccctgg aaaacggtga attgagtgaa 600
ggggagctcg aagcactcaa acagtcgtcg atcgagctgg tgaaaattgc aacgcgtcaa 660
tatgcgacat cccagatcaa atggatacgg aataagcttt ggaaggcgct cgctgacgca 720
agtgccaaca aaaatttgta tcttctggac agtaccaccg ttgaagactg gcaaaagtgg 780
gttacngagc cgtctgagca cttgactcag gcgctgctca acgacgaaac cctaacggga 840
cccttaatct ctcttcggac ttggcaagag aaaacctatg ccccagggaa ggtccggcgc 900
agaaacaccc caacgaaatt cttcccaact tttacttgtt ga 942

<210> 1209
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1209
gccttgtact ctcgcgactt ccaaacatgc gtctcatgcc attcaacaac accctcctgt 60
tccgtctgcg aagaggggta tacatgtacc atgatcagtc catcatgttg ccaatgcgcc 120
acctaccaat gtgttcagat gttcacttcc cgccagaagc ccccattccc cccgccatat 180
ggaagccggt accaatgttg ggggcttttt gccagaaga 219

<210> 1210
<211> 693
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (70)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1210
tctcgtttgc gtccagcccc ccccccggc ggaccgcttg aatacgtttg gaccaccttc 60
ttccttaccn cctcgcggag aagaccgcat gaagcccgcg tgctacacaa cttacgctcg 120
aagccagcaa acttagccag ggccctcatt cgagcagcct tcgaagtcca tcatgtcacc 180
acgtatggtc ctgatggcac ggtaatatcc gatctaaata cggcctcaga atctggattc 240
ttctctgccc tccattcccc tgcatccgcc tcggctcccg aaaacaggcg gcatatcctc 300
aactgcgatg cttgcaggaa agaagagttc gagcgacaga cagcaagatc agcagcagca 360
gtggagacat cgaaagaagc tgctgcgact tcttcgacag atgtcagagc ccaaaacttc 420
tctgacactg gaagtcctgt tcctcgaaag actctagcag atgcgagtag ctcaaccgtc 480
gtgagtgaca ctcggcaggt gctttcgccg ggtgctcaag agttcaatgc ccgtatcagc 540
attggtggga tgacttgtgc atcgtgcgtc aatactgtta caaaagaggt ccaacagctc 600
gactttgtcc gtgaggtgac ggtcaacctt ctcaccaata gtggaacggt gggctataca 660
ggccctcaaa caaaccattg gaaagattgt tga 693

<210> 1211
<211> 639
<212> DNA
<213> A.fumigatus

<400> 1211
agacgacgcc atgcgcatca gatcctcagc ctagaacatt tcttacatat agatgttgaa 60
ctacgggtgc aacgattcgt cctcaatcac gcgccttggt taaaggctgt tctcgcgaga 120
gtatattact cgcacattgt attgggcgtc atcttcctcg tctatgggta taccttcttt 180
caaagggaaa aataccaagg agtccgccgc actctggctc tcgaaaatgt aatagcattt 240
ataatcctca ctctttggcg atgtagtccg ccacgactgc tgccggagga gtacggcttc 300
atcgatatgc tgcatgacaa cgatgccgga tccgcctgga cacaaaacaa gttccagctt 360
acaattgcgg caatgccttc gctgcatttt ggtaacgctt tcttccttgc tctgtgcttg 420
ttgcgataca gctcacactg gatccttcgc gtggtcgcgc cgctctggcc catgatgatg 480
ggggtgacaa ttatcgcgac agcaaaccac tttgttttgg atgccctggt cggtgtttgc 540
gtgaccttga cggcatatag attcaatcat gctgtgttgg ttttgttgcc ggtggagcgg 600
gtactgttca agttgctccg cattgagaag ccgcaataa 639

<210> 1212
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1212
ctaatatcta accagtgttc tcgtctttca gccatcttca ggtctgccct gcattaccca 60
gatcgagaca acttcgccat gggggctacc aggcacatta ttgtctgcca gtacaagtac 120
tggctgtgct ctatttctat cgttctattt actcaagtga ccgcggcagg aacttgtttg 180
ctacgttga 189

<210> 1213
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1213
actttaataa aggagaactt atggttaact atatatgtgt atatagtggc tctgtttaag 60
gttaatctgt ctagtgggtt aaagataaag ttatggttag ctagtaaatc agtctttaaa 120
tatactgcta gtttactaac tgaatatgct ggtagaagag acctttgctt tatatatact 180
actgtataa 189

<210> 1214
<211> 414
<212> DNA
<213> A.fumigatus

<400> 1214
ttgacgcatt gcgcgggtcc ttctggcccc gtggtgaaga tctcgccacg gtacaatgaa 60
ccggaatatt tactatatat taaatcaaac aaaccataca atcagcacga ccagcctaat 120
gataaggacc caggatatca agcattcctt aatcatccag cattcaaacg cggagatttc 180
cctgaatcta aggataaacc atatgtattt atagttaatg ttagacctat agtcacaacc 240
tacaataaat atagggctac attcccatta cagaatcatc tgcataccca tctttcagaa 300
tatctacaca cacaggaact aatccctgtt acccctacta ctaataacct aactactatc 360
tatattatta aatctactca caagccaact aggcttatta gaatccattc ctag 414

<210> 1215
<211> 384

<212> DNA
<213> A.fumigatus

<400> 1215
tattatacta ctacaaagat tagaattaac agtatattag aatactataa gatatgcctt 60
aatacaggct gcttctctac cattagaaat acagagttta ttaaagcatt atctagcata 120
actatcacta agcttacaga cagcatcata gttttaggca ttggatcctg ttatcaatca 180
aaccattcta ctatgctaac actatggttc cctagattaa taaataatag tggttctgcg 240
aacgcatttg ctaagattac tatctattac tatttagtca atggcctgaa gcctaagcta 300
cttattagaa ctaatgtcat ctgtagtaaa ggattcatac ttaattttaa acatagcatt 360
acaacaatta gttcttgtag ttaa 384

<210> 1216
<211> 297
<212> DNA
<213> A.fumigatus

<400> 1216
gctaaaccac atcagatcac ttatacagta gtatatataa agcaaaggtc tcttctacca 60
gcatattcag ttagtaaact agcagtatat ttaaagactg atttactagc taaccataac 120
tttatcttta acccactaga cagattaacc ttaaacagag ccactatata cacatatata 180
gttaaccata agttctcctt tattaaagtc tataataaaa cacccactct aattacagtc 240
actcatcaca cttatatagg gaccatctct gatactaact tcatcactac ctactaa 297

<210> 1217
<211> 426
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (89),(342),(415)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1217
tcacttcgct ggaatttgcg gtgtcgtttc ccgctcccca atccttacga ccctcgtgcc 60
ttccctctca gtattcgttt ttcattgcnt acaaacccac cgatgaagcg tacccgtgcg 120
cgacagaatc gatcccccct gacggggagt gacggcagcg agagcgactt cgtcggtagc 180
agccctgact gggatgagca gcgggatgcc acttatgaga cggatgtgac tgagccagat 240
gtcaccgagc cggatgatcg cccgagccca cgaaaacgcc tccggtcgga tcagaaggac 300
cctgctttgg agccaagtct gtccaatgag gcagacgaat tntacgacga ccccctcgat 360
gacacgggaa tcgacccttg tgagatcgac gtcttaacca gccggctgga cggancagcg 420
atgcga 426

<210> 1218
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (155)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1218
acctttccca tggggtacaa ggatatcatc aaaaagtaca tcacccacca tgtgaacaat 60

cacagccaca aggaggagtg tggtaagcaa cctgtgtgca acaaggttgt ccagtggttg 120
caggatgcca atattttccc cactttcatg gcccntacca ccccaagggt tggcattctc 180
aaagtcaagg ataagtcact cctaaagctg acaattctat ggtctatcgt ttaa 234

<210> 1219
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1219
tcaagaaaca ctgccctgct gcaccatgat accgtccaga agacctttga gatgacagca 60
gcagaactgg atgctatgat ttcctgcact tatctcggca ctggagcaga aatggcaaga 120
tacatgaaac atatctccct ggccttttct aacggaccac aaatggtgaa ctcactctac 180
tggaaagtat ttggcgtcta a 201

<210> 1220
<211> 519
<212> DNA
<213> A.fumigatus

<400> 1220
gttgaggaat acccgttcac gtccctttcc caagaggaac gaaaggaaca gatccgaacc 60
cgctacatgg gcgccatcat tgacatcatt gctgtggcta tcttcattga aattgtgggt 120
gtcacgtacc agcttactgg gcttatagcg atggaaagag agctcggaat gagccagttg 180
attgattgca tgttgcccaa cacctctcac tggcaatcac aagctgctcg gttcattgca 240
gcacacctgg ctttggatat cgtgtattgc ccagcatgga ttatctccgg tgcaatcctg 300
aaatttgggg tgtacggcaa gacctcggct ggaatagtca taatctacaa tatcctggcc 360
ggtctcgcgt tgtcctcctt ttccatattc ggcgcctcat ttttcaggaa ggctcagctc 420
agcggtatca ctgtcgttat cctttgtttg attttgggag taatcgcgca actggcacct 480
gcttcgacaa acggtgctgt tgtcattctc agtctccta 519

<210> 1221
<211> 750
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (709)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1221
cggcctcggg ctgataagac agcgaggtgc gtggctgatc acctcttggg gatacaagat 60
aaggagtcac ccatcaacac tcgacatctc atccaccgcg ctcagtttgg gagagacgac 120
atggcaacca atgcaaatgc acccaccaaa tccttcatca tcaagcatat gaacaccagc 180
catgccgact cgctctctct ctacctacgc gcctactgcg gcgtctccgc ccactttgcc 240
catcccgcca tccttcaaga catctcccac tcggacctcc tcatcaccgc aaagggaact 300
cgctacagcg ttcccattaa cccacccatg acctcccttg ccgaaacccg cgcccgcgtc 360
gtcgccatgc acaaggactc tctgcagcgc ctcggcctct ccgacattac catcgccgag 420
taccggcccc cgcaggggct ccaggtcgtc tcgctagtcc tggtggtcgc tacgctggtg 480
gtgtttggtc ggcggagcaa tttcctgccg gagagtgcgt tctacgagac ggtgggctta 540
gaccggtatc cggtgtttac gcggttctgc tacgatgttg caccggtggt ggttggctta 600
ttgctaggct cgcatttggt ggaggcgacg ctgtcggcgg ttaagatgtt gaggccgcat 660
ggggtgcggt ttgcgtctgg gttgtgggtt gtgtggattg tgtccaatnt cgtggaaagg 720
tttccggcgt ggcggcggtt tgatgagatg 750

<210> 1222
<211> 360
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (9)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1222
tacttcccnc cccgtggtga agacaatccc accacgcgga ccatgtccct gtccgatcgg 60
gagcaactgg tccagctctc gcgcgagttc gatgccttga tcgtgaccga tgacgtctac 120
gatttcctgc agtggtccgt ggatccagac tgccccctgg ctgctccaga cgaggcacgc 180
gtgcctcggc tggtcgacat cgatcgctac atggatggag ggccccagga tgaatgggga 240
aacgtcatca gtaacgggag cttcagcaag ttgatcggcc ctggcatgcg gaccggatgg 300
gcagaaggca cggccaagct tgcctacggt ctctctcaaa cgtatttcct cgtcaactaa 360

<210> 1223
<211> 459
<212> DNA
<213> A.fumigatus

<400> 1223
agcgtactga acaatgcctg ttggtcgtgc ggggaaattg ccgtcaccga gaaagccaat 60
ctggcaccgt acgccgacaa gctgtaccat ggactgtcta ccattattaa caacgaggaa 120
attatcgact cggtgaatga gaatgccgcg atggcgctcg gaagattggg tttctgctgc 180
tccgatcaac ttgcctcgcg cctggccgag tatgccggct cgtttctgaa gtcgatgaac 240
aagattgagt tcacgcgcga aaaggcatcc gcattcctcg gtttcaatca cgttgtgatg 300
aagaacccgc aggccctgga gtcttgtctg ggcgagtact tccaggccat tgccaccttc 360
cctaccaagt cacttcatca agaggactac cgtgatatcc agagctcgtt ccagcaggtt 420
cgttgtagtt ttatcccact gttcgatggc atttgctaa 459

<210> 1224
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1224
aatgtagtat tagatagcaa ctaccgcgta ttggataaaa aagagccagg ctgtccgcgt 60
agtggttcag tgataatcta tctgggtttg ggagtgcccc ccctccacag tccgcagttc 120
ccccccccc acctagataa taagctggtc ctccccttaa atctccatct gcccctcccc 180
cgtcgggctt cccctgtttc tttctgttct tctgcttcct tttatttcgt tttcaccaca 240
ggg 243

<210> 1225
<211> 216
<212> DNA
<213> A.fumigatus

<400> 1225
ttgttaccct atgattatag tcacccgtat tacatggccc ttgattactc ttttttccct 60
cttcctatgg acgaatctgt tgactatatg ccacttttat ttctttcctt atcgtacctg 120
atcagagaat ggtctattca gatggaacaa caaaagaact tttccaaatt tattagtggt 180
ccttcagtca aggaaggaac gagcacagac atatga 216

<210> 1226
<211> 855
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (747)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1226
atcctttctt ccagcccgcg tgaagacact cttcgagcag tctccagcgg gacctgcaat 60
gcagctgaag cgcagagact cgcaaagcaa cacgccgaat ttggtcctct cggccacccg 120
tcgcatctct atgtgagcaa acacagcggg ggcgaaattg ccgacccggt cctcgacgag 180
ccgccgtact tcaccgcttt cacaacctac atcagcttcc tcattttgat cttcctcggc 240
cacttccatg atttttgcga caagtacttc cgatctcaca cctacaagca cctccgcccg 300
cagaatggct atgcctcgtt gtacagtgat ttcgagagct tctatacacg acgcatgaag 360
cggcggatca atgattgttt cgagcgaccg accaccgggg ttccaggaag atatatcact 420
ttgttggatc agcagtcgaa tgacaacctc catttccggc tcaccgggac gaccacggac 480
acgttgaacc ttagctcgta caactatctg ggatttgctc agtccgaagg gccctgttct 540
gatctcgccg aagaaacgat tcggcagaat gggatcacta tggcgggctc ggttgctgaa 600
cccggcaccc cacagctcca tgcggaggtc gagcagctag ttgcgcgatt cgtgggcaag 660
gaagattcga ttgtgttctc catgggcttt gtgaaccatg ccacgatttt ccctgccctc 720
atggaaaagg gatgcttgat cctttcngat gaattcaatc acgcgtccat tcgctttggg 780
gctcgtctct caagaactgc catccaggtc ttttcccata acaatatggc ggatctggag 840
atgcgactcc catag 855

<210> 1227
<211> 501
<212> DNA
<213> A.fumigatus

<400> 1227
ttcggagtgg ccgatgtgat gactcccaca cgaactaagg agcccgacca atcgtacaag 60
cctatgaatt tcccagctgg ttactccagt cactggccgt ctatggtgat cgagactgcg 120
ttctccgaga gtcagggcac accggccaat gatgcgcgct ggtggttgaa cgcttccggg 180
ggagaattga agatcatcat caccattgca gtccagaaga aacgggaggc tatcactatt 240
gacaaatggg aggcgaccag ccggcccaca cgaggcgacc cggggaagac ggtgcctgac 300
gttgttcaga aggtgactat cacaagggag ggaggtgatg ccccagtgca tgtcactggg 360
gctcccctga tcatacggtt tgagaagctg ttcctccggc ctgccgagga ggagaaaggg 420
gaggggggacg tactgtttac tcacgatgat ttggccgaaa ttgccgacaa ggtctggagt 480
gtcctcaata cgggtaacta a 501

<210> 1228
<211> 558
<212> DNA
<213> A.fumigatus

<400> 1228
tcgtcggccg ccccagggcc cggagacgac tatgcgtaca cggtcgacac tctgctggac 60
gaaatcatcg acacactgga ccagcttaac atctccaagg tccacttcgt cggggagagc 120
acctcggaca tgctcgatga agccttggcc gcccagtttc cttcccgcct gcgcagtttg 180
acaacgatct ccagcccgac ccttctccca cccgcggcgc tccggctctt cgcatttgga 240
tacccgagcc ggcccgaggc gtgtcgccag ctgggctcga ggggctgggg cgagcgtctc 300
gcgcgggtcc cgggaacgct gtcggcatcg gaccccgcgt acgaggcctg gtggctgtca 360
cagatcgccg tcagttcaag cgagggcctt gcgggctatg ctggatttct ctccaccttc 420

gacgcgcggg cgtatctgct gcgggtttcg gtgcccatgt tgatccttgc gccggcgaag 480
agcgcggcga ctaccttgga ggaacagttg gatcttgcga gacaggtcaa ggggtctaag 540
ctgttttcac ccacgggt 558

<210> 1229
<211> 573
<212> DNA
<213> A.fumigatus

<400> 1229
cccttgcagc ttcagcctcg attagtcatt atattatcag cccattatgg tgaccaggca 60
tcaatcactg gcaccctgtc tgatgaacct ttatctgtcc atttcatccc atctcactca 120
ttcctttcct ttgctgccta taataagacc ttcaagatgc atctaatcct tcatccaaag 180
actctcatcc tgctgctagc tgtgctggtc acaattgtat gcatctcgat caggcgcttc 240
ctcgcccggc gccagttcgc acgccagcac ggttgccagc cagtagcaag gtccctcaac 300
aaggatccct tcctaggcct cgatactatc cccgagactc tccgcgcggc aagtcagcac 360
cgaatcctcg aaaggagtgt cgagctcttc cgtctctacg gcaacacctt taccgtaaag 420
gaactacaca aatatgccat cctgaccata gagccggaga acatcaaaac aatcctatca 480
ttgaacttca aagattacgg cctcagccat cggcttcaac cgttcaagcc actcctaggc 540
gaaagcatct tcgacaccga tggcgcacac tga 573

<210> 1230
<211> 255
<212> DNA
<213> A.fumigatus

<400> 1230
gcttcgtcgc gggccttgat ccggcccagc tttactcgcg gccaagttac cgacttgacg 60
gcgctggaag acttgatgca cgacctcttc gcgttgcttc caggggatgg gaaaaatgtc 120
ttggaactgc gggagctgtt cttccggtat acgatcgaat ccgcgaccga tttcctgttc 180
gggcactcac tccgggatct cgacgaatac tcccttcgaa ctggggtctc tgccctgctt 240
tttattcatc cctaa 255

<210> 1231
<211> 519
<212> DNA
<213> A.fumigatus

<400> 1231
cgactactta gggctccgac atccggtggc cagtaccatt ggatctccat gttggcccca 60
cgatggacgg tgaaattcct cagttacatg tgtggatggc tcaccgtcat tggatggcag 120
gccacctttg ccacagcgtg ctacctctgc ggtacgatgg tccaaggtgt ggccgtcctc 180
acgcgtccca actaccaacc ccaatcatgg catcctacct tctacttctg ggccattgta 240
gccttcgctg tcagtatcaa cgtggtcggt cgcaacgtcc ttcccaagtt tgagggactt 300
attcttgtgg tccacattct gggcttcttc gccatcctca tcccgctcgt ctcgttggcg 360
gacattggtt ccgccaagga cgtcttcacc gagtttgtca atcaaggtgg ctggccgacc 420
caggggctgt cgttcttgtg ttggcttgat cggctctgtg tttgcctttg tgggaggcga 480
tgccgcagtg cacgtaagtc taccattgct ctctcttga 519

<210> 1232
<211> 192
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (76)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1232
cagagtcagc atcagaaaag caaggacggc aagccactgg caactggtga ctggcttgca 60
acattggaca accccnaatc gggaaatttt gaaagtggta aaagaatcct gaacagccct 120
cactgttggc cattccgaat gggattttcc tccaatctgg ctgcaaactc cggaatttgc 180
ccccaaggtt ga 192

<210> 1233
<211> 258
<212> DNA
<213> A.fumigatus

<400> 1233
gtgcacagag tacggagtag tactcggtat tctgtactct gcgcatccct tgccgccccg 60
ctgatacata tcacattgca cctaggcatg catttgaaac tggggaacta ccagccgatg 120
tgcgcattct ccaacctcct tgttgttttg aacctacgat caaccgttac cacaggaatt 180
tgccctatcc gtttcaagga cagtctatct acagagtacc catcggtttg gtgtacagca 240
cgcttgcttg gagattaa 258

<210> 1234
<211> 453
<212> DNA
<213> A.fumigatus

<400> 1234
agcagttttt tatttacaac atcgtccagt tcatcacttt cgttccctcc tgacctccga 60
acggcacata cattcaaaat gcgtgtcagc accttgctcc ctctcgctct tgcggccggt 120
accgctgctg cctccaagaa tggaactttg ggtttcgccc tgggcaataa gaacgaaggc 180
ggcaaatgca aagtccagtc ggactatgag accgatttcg atacgttaaa agaagtgacc 240
tctctcgtgc gcatctactc cgcgagtgac tgcgacaccg caaagcatat catccctgcg 300
gctaaggcga agaacttcaa agtcgtcctg ggtgtttggt atggaacccg tcacattaca 360
tccgctttac gtcaagcggc taggttgcta acattgcccc gtttggtagg cccgattacg 420
acaaatcttt caccgacgac ttcaacgcct tga 453

<210> 1235
<211> 264
<212> DNA
<213> A.fumigatus

<400> 1235
ttaagtataa taccccaaca gtctcaggga tgcgatgggc gacttacatg caacttgcaa 60
ccgaccctca tggaggtttt gaaacagtta catgtctctg tctctcagaa ttttgataga 120
cttttcgatg acgcctataa atccttacat acggaactca cgcgtcgcga cgagtacgtc 180
aagaagctag acgtagagct agcacgcaca gacagaaata atgcttctgc agaggtcctg 240
aaactcaacc gtgagatttc cctc 264

<210> 1236
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1236
aagtggcaat ggccacgatt tccaactgga tccacctata tccccatcga ccaacacccc 60
caggagccag aacagaatgc tcctgcgccc ttccccaccg ctgcttcttc taaaacacgc 120

aaacactctg gtattcatgg aattaacacc acgaaccatg gacaactttg gtttaccctc 180
cctcagggaa aatatccccc aacgggtaca caaccagaaa gcttttggaa acttgattcc 240

<210> 1237
<211> 267
<212> DNA
<213> A.fumigatus

<400> 1237
tccggagaag aggagagtgt atgcgcttcc tctgacacga cttgctcggc aaatactgac 60
aacgttaggt atgtcacgga cattgaatac ttcaaggaga cggaggttcg caacgacccc 120
gtagcggcaa agaataatgc agcgcattgg gttattgtcg tgatggatgc tctcacagct 180
ggtgtcgaag acattagggg tctttcgccg aaggacgaat atatcaatct tgaggatttt 240
gaacacttta tgagtgacag tgactga 267

<210> 1238
<211> 909
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (858)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1238
gacgacttct tctttccggc gtgtagacag ataatgagaa ttgggatcat ccacgtcggt 60
gccccggctg gcggcatgaa ccaagccacc cgcgccgctg tcggttactg cctaactcgt 120
ggacacaccc cgcttgcgat tcacaacggt ttccccggcc tttgccgtca ccatgatgat 180
caacccgtcg gctctgttcg tgaagtcaag tggctggagt ctgatgcttg ggttaacgaa 240
ggtggatcgg atattggcac aaaccgtagc ctaccgtccg aggatttcga gaccactgcc 300
atgtgcttcg agaagtacaa gtttgacgca ctgttcgtgg tcggtggttt cgaggctttt 360
acagcagtca gtcagctccg tcaggcccgc gataagtatc ccgctttcaa gattccgatg 420
gttgtgttgc ccgctacgat ttcgaacaat gtgcctggaa ccgagtactc gctgggaagc 480
gacacctgtc tcaacacttt gattgatttc tgcgacgcca tccgccagtc agcgtcgtcc 540
tctcggcgtc gtgtcttcgt catcgagaca caaggtggta agtcgggcta catcgccact 600
accgctggtc tcgccgtcgg cgctacagcc gtgtacattc ccgaagaggg catagacatt 660
aagatgctct cgaacgacat tgacttcctg cgggagaact ttgcccgtga taagggagcc 720
aaccgtgccg gaaagctcat cctgcgcaat gaatgtgcct ccagcaccta taccacacag 780
gtcatcgccg acatcttcaa ggaggaggcc aagggtcggt tcgagtctcg gtcggcggtc 840
cctggccact tccagcangg aggtaagcca tcgccgatgg accgtatccg cgctctccgg 900
atggccgtc 909

<210> 1239
<211> 210
<212> DNA
<213> A.fumigatus

<400> 1239
tggatgattg ggaactacag acacagagaa gtgagaggtg ctatctttcg atctcgagta 60
cacattcgga taaatggtgt gcactccaat ggattccttc tccttaaggc ctcctccctt 120
gagatcaccg ccctgcactt atttacctgg tttctgtatt tttcccactg tcccccgttc 180
cttgttttta cccctacctc tgttaattaa 210

<210> 1240
<211> 195

<212> DNA
<213> A.fumigatus

<400> 1240
tcctcctata ccctctccaa agttactatc ccaccacatt tcttttatgc attcacccct 60
tttcttttcc gtctccctcc ccctttccaa aaaccccaaa ctccccccctc gaaaaacccc 120
ttttttaact ttgcacaaca attggtttct cttcccaacg cttccaactc ggtttcttta 180
aaaccccttc cctga 195

<210> 1241
<211> 684
<212> DNA
<213> A.fumigatus

<400> 1241
ttcccaatca tccatcaatc tcgttctcac tctctaccaa ggctgctggt tcagcttgac 60
ttcaagatga tcccagccgc aaccgccaag tacgactgga tcctcgccct cacctccatc 120
actttcgtct tcagtgcctt tggtaacgga gctaacgatg tggccaactc gtacgccacg 180
tccgtcgctg cgcgcacgct gagcatgtgg caggtcggca tcctggccgt gtgtaccgag 240
ttcattgggg cggttgccct cggagcccgc gtgaccgata ccatcaagtc cggcatcatc 300
agcatcgacc ggtttgagaa caagcccggc cctctgatgc tggcaatggg ctgcgccgaa 360
atgggcaatg ctgcctggct gatgctggca accgggatgg gctggcctgt ctcgaccact 420
caaacgattg tcggtgctct ggtcggtgtc ggcttcgccg ctcaggcacc cattcactgg 480
gaatggacca agggcagtgt ctcccagatc gccgcatcct gggggattgc cccggccatt 540
gcagccggct tctcggccct catgttcggc atcctgaagt acagcgtcct cgagcgcaag 600
gatcccttca agtgggccat gcgtctcatc cccggttttc accacggggc ccgaaggacc 660
gccaatggcc tggtgaagcg ggca 684

<210> 1242
<211> 870
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (609)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1242
tatctcctca tttctaataa accaactgcc cacagcctga ccccgcccca gtcacataag 60
ccccagcaga agacgccttc ctcttcttat accacaccca cctcaaccaa ggcaaagcga 120
ggctgcgaga gaaacagaat ggctccccca acagaactcc accacctcta caccaccatg 180
gccgccttcg tgacgtcctg catgtcagcc cacgatccct cccacaaccc agcccacgtc 240
caccgcgtcg tcacattagc ccgcacaatc ctcgagaaag aacagctctt gcacccggac 300
atcacctacg acgaggatgt cgtcaaactc gctgccttgc tccatgacat cggggacagg 360
aagtatctga cgcaggtcgc cgcggcgaca tccgcagctg gagagcagca gcagcagcag 420
gcggcggttg atccgggccg gatggtggag caggcgctat tagcgcacgg agcggacgtg 480
gcgctcgcgg cgaaggtgca gaccatcgtg acgcatgtgt cgtactcgaa ggaggttaaa 540
gatcctgcga cggtgcggag gttgatagac gaggaagggt atgtggagct ggcggtggtg 600
caggatgcng accggttgga tgcattaggg gcaatgggga ttgggcggtg ttttacgttc 660
ctgggcgcgc agggaaggaa gtatcttagt cctgaagaac cgtgggatat gaataacgct 720
atagctcact ttcaggacaa gctggagcgg ttggagggga tgatgaaaac gcagacgggg 780
agggaaatgg ctcgcgtgcg gacacagcgg ttgatcgagt ttcgcaaatg gtgggaggag 840
gagatggagg aggcaactca tattccttga 870

<210> 1243

<211> 420
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (117)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1243
gctatagcgt tattcatatc ccacggttct tcaggactaa gatacttcct tccctgcgcg 60
cccaggaacg taaaacaccg cccaatcccc attgccccta atgcatccaa ccggtcngca 120
tcctgcacca ccgccagctc cacataccct tcctcgtcta tcaacctccg caccgtcgca 180
ggatctttaa cctccttcga gtacgacaca tgcgtcacga tggtctgcac cttcgccgcg 240
agcgccacgt ccgctccgtg cgctaatagc gcctgctcca ccatccggcc cggatcaacc 300
gccgcctgct gctgctgctg ctctccagct gcggatgtcg ccgcggcgac ctgcgtcaga 360
tacttcctgt ccccgatgtc atggagcaag gcagcgagtt tgacgacatc ctcgtcgtag 420

<210> 1244
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1244
cctacaacag aagagggtat cagaacagac ctctctgctg ttgttagatc agcagctttt 60
ttcgccatga gttacgttaa aaaagatgag gacgctgatc aggtgatgat caagctcgat 120
cggacctccg tcttccaaga tggtaagggg attctcagtt cccctgaaga ggctaccaaa 180
ctaccaagca attaa 195

<210> 1245
<211> 294
<212> DNA
<213> A.fumigatus

<400> 1245
acagaccaaa actccgagga gatttgcaac gcctccacgg ctccatggag cccctggagt 60
tgcgtggcgc cgatcttagt ctccgacttg ccgacggttc gatctctgga attccaagag 120
ggtttgattc tgtactactc tgtagttagt tactattata cggctgacga ggggaaaccg 180
gtttggactg tgcccctcca cgctacagtc gccttcactg gtaacaactc ctctgaaatc 240
ttgagggata acgatgccaa taaagaaagc atcattctgg aagtctacct gtga 294

<210> 1246
<211> 291
<212> DNA
<213> A.fumigatus

<400> 1246
gttcttgtca tccatgagag ttgtaccgga atctctacga cttcgggact tacttctatt 60
ctctcatttt ccaggttgat cgccctgttc gagctagccg gcatgcctat gtttgactgt 120
actcagattg tcgcgtgcat tccccgctcg caggaggtaa cagattccga gattgtgagg 180
aacctgggct ggtgtggttt taacctgaca acattgaaac cttgggtttc tgagcagtgt 240
gtggagcact gcctgagcac aaaatggctt tttttatgtg cggaggtcta a 291

<210> 1247
<211> 1179
<212> DNA

<213> A.fumigatus

<400> 1247
gaagacatga ggccggggag aagaaggtgg acgccatggg ttacccccaa ggcggccgcg 60
agttcaaatg tcggacattc cgtgtgccgc gtgcggggaa aggagctgtt catgctggcg 120
accgaatgcg cacgggtgct cgggtatcga gactcatacc tgctgttcaa caagaaccgg 180
tctctgcaca agatcatcgc gtcgcaaatc gaaaaagacg acctcatcca acaggatgtt 240
ctgccgtact cgtatcggtc gcgccaaatt gccatcgtct cggccaagtc gatctttcgt 300
cagttcggca gcagggtcat cgtgaatgga cggcgtgtgc gcgacgatta ctgggaaagc 360
aaggcgcgca agcaggggtt caccgaagat gacctggctg gtgaaaaacg gccgggggcc 420
ggcaaggctc gagacgccgc cgccgccgag gcagccaatg ctgcgaatct gttgccgacc 480
ctcacccatg gcgacgtcat ctacagcaat gcgctcgaga ccatgcctca tggcttgccg 540
gttggggggc cagcctcgtc ctcgctggct tctctgccga tgatccacat ggctaccacc 600
accgacgatc cccggctgag ggagtacaac agtatgcctc gcgcgcgcca ggagatcacg 660
ggccagccgt accaagaccg cttgcagccc agctcggcgg ctgaaatcct caaccatgca 720
tcgcacacgg ccgacttcaa caagattctg agcaaccagc gcagtttccg tcagaagggc 780
ctggaggagt tttactccag ccagcgcgag gtccccgaga ccgcggatct cgctcaaccc 840
gcgcagttgg acgccaccgt gtcggtctcc cagcccttgc aatcgcccca gatggcgtcg 900
acgggcttga tcagctcgac gcagccgcag gcgattcttc ccaaccaggc gccgatgatg 960
gccggtcaga ccgccttcca agcgcccacg ggaccccagc agggcgctat tgctcagtct 1020
cccatccagc ccgtgcctgc agttcgggcc aacctgatgc atcagcgttc aaaccccttct 1080
atgttctggg ggcacgccgg aagccgaccc ggaccgtatg ggtacccggc ggcaacagca 1140
acaaaatggt gggggcagag caccttccgg cggctttaa 1179

<210> 1248
<211> 495
<212> DNA
<213> A.fumigatus

<400> 1248
gccaatatac taacatccgt ttttttatta ggactctact ataaattgca tggttgctac 60
cgacccacca cgatgaaaaa gtccatcatt aaacgacgaa aacgtgttgt gcctgccttg 120
agagaccaat ctcctagtgg agctacctac tcgtccaacg gttcgtctgc gtcgccggag 180
gcatctccgg cggtattggc tcacagccat gatgaccact accgatactt gagttcggat 240
ccaacattgc aggctaacca ccagcgacat tatgccgttg ccccaccgcc tgtggatttc 300
actcacttca gtgctaccgg gagtctctcg ttgccgcatc acccccccc tcctatactc 360
ctggagcctg aacggctgag cgcacctagt cactctccca ttccacagtt cggccgacgt 420
tctatctcac ccagcacttc cggcagtgcg aagaagcgaa ctcttgcgga gaccacatca 480
tccaccgata ctgcc 495

<210> 1249
<211> 459
<212> DNA
<213> A.fumigatus

<400> 1249
gagcgcgttt ccttccttcc ccgtcggtgt aagacgggcg gtcaacaaag tggcgacgga 60
tttgctcaga gcgaatcggc ttcacagggt cactgtcagt ctaactcagg aggtggttcc 120
tgtcctggtg gagggaattg caatgggact ggcggagccg agggatgcga tggttgccct 180
gcctacaaca accgagttta caagtctgct gctcgaggca cggttcccat ccactcgtgg 240
agagctacaa attcagggtc cgaccgacct ctcgctgaaa ccgaaaacga tgcgggaaag 300
aatggcgcaa cggtcgaagg aggaaacatg ctggtctcct gtcaaaactg tgggaccact 360
gtgactccac tttggcgacg ggacgaaaat ggacatccaa tttgtaatgc ttgtggtacg 420
tcgactctcc cccagtcttg tgataagcca atatactaa 459

<210> 1250

<211> 897
<212> DNA
<213> A.fumigatus

<400> 1250
acccccgagt atggatcaag tccagggtcg agttcccgat ttgatagagc ggacagttcg 60
gaggttcaga cgggtggtcc gaacggcact ttaggactcg gcttaggcag ccttcgggtg 120
ccgacgcagt tagatcctga gcatcacatt gctttcctgg agaaacaacg aaagaataaa 180
ggggcattgc gcattcccag ccctagggag tatgaccgcg gcggcgtgcc ggaggtcctg 240
gaggaagcag atgatgaagg cgagggatcc aagcggacgc gtagcagcga atctgacgac 300
gagaactctc ggaattcgga ggagtccgac caagttggac cactagaagg gccgcacatc 360
accatcaatg aaccggacat acagcagacg agaaccagaa attcgacgtt ccctcgtctg 420
gacacacgtc ccacttatcg agacacgaaa gatctgaacg atacttcagc cctggaacgt 480
tcaaggtcac gacgccctac tcttagcaat cttgttcgct ccttaaccca agaacgggag 540
cgtacgacgc ttccatacct cagttggaac gctactgttg cacgaaattc taactttgtt 600
gatctgaccg aggagcagcg tgatgagctg ggaggcatcg aataccgagc cttgaagact 660
ctagccattg tactcacttc ttattacctc ttttttcaca tcctgggaat ggtctgcctc 720
gtcggttgga tcatgaccac tcactggggt caggtcgttg agcaaatcgg acaaggtcgt 780
ccttggtggg gcatcttcac tgcgggatct gctttcaacg acgtcggctt cacgctgacg 840
cccgactcca tgacctcgtt ccaggtcttc accacggggc tggaagggtc cgcgcat 897

<210> 1251
<211> 510
<212> DNA
<213> A.fumigatus

<400> 1251
cagattcggg agacggagcc ggacctcaag ggccgcttca tcctgcagga tcggccgatt 60
gtgatcgagg agaatgggcg cgagctggaa tcgcatggca ttgagcctat ggcgcatgac 120
tttttccagc cgcagcctgt aaagggtatg ggccccatcc ctgtcccttc ctttcctgac 180
tgcctgagac tgaatggaat aggtgccttg gtttactacg tccgccgagt gttccacgac 240
tggccggatg acgaggtccg acagatcctg gtgaatctgg cggcggcgat ggcgcagcac 300
tcgcgcatcc tgatcgtcga gttcatcatg cctgaagtcg gggccaccat gtccaatgcg 360
tacatggacc atacgatgat gacctttgcc ggggtcgagc ggaccgagaa gaactttgcg 420
agcctgttgg accaggctgg gttgaaactg gtcaagacgt ggagggcacc tggagtccct 480
gtcggggttg tcgaggctag attgcagtga 510

<210> 1252
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1252
cttcttcgac agtccaaggc tgttcttcaa gctttcgaag ccgagcgcac ctacctttac 60
gtctcgacaa aggcgagaaa gcccgaacct cagccacccg agcttatgac tgcgctccat 120
aatgcctctg atactattaa taatatccgc gaggtcttca ccacgggggc cgacggatcc 180
gcgctatga 189

<210> 1253
<211> 570
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (567)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1253
aatcctggaa gcagtgacag cgaggggctt cggctattga ctggaaaacg cattagcatg 60
ttccttcagt cgtggtattt gtttcgcaag agggtcacaa tattgcgccg caaccctatc 120
ccatacttgg ccgctttgct catcccagtc gttgcggccg gacttgttac tcttttcctg 180
aagggtgcta cgaaggcagg ttgttccggt gatagcgcgt atcgtgcatc tggctttgag 240
tcactggcgt ctctggaaaa cttcgaattt gtggttggtc ctcgagacag gctgtctatc 300
tccgctcttg agagcttcat tggctcccta tctggtttga tacggtcgac tcggaatacg 360
tctttgaatc tcaactctcg atttcaccta gtaaacagtc tcacggagtt tgaagattat 420
atatctcaca actataccaa cataacccct ggcggtttct acctgggaga cgcaaattct 480
gcgcctacat tcgcgtggaa gggagacaac agtcacttcc cgttatccgg tcttcaccac 540
aggggtcgaa ggatccgcgg atcgcgntaa 570

<210> 1254
<211> 543
<212> DNA
<213> A.fumigatus

<400> 1254
gaagactcgc ggtgggcttg cccggcggtg gttatatatc ccaacatgta tcgactttct 60
acgctcctga tggcgttggg ctctgtcacc ctggcagaca ccaactcgaa taccttcaat 120
ccgctccacc atctggccgg aatttccccc tactttacac ccaatgaccc tcagctcgac 180
ccctcggtac cacagggctg caatgttact cgcgcagctt atcttgcccg tcacgccgcc 240
atctatgcca acgattttga ctatgaacgc taccttgagc cattcatcca gaagctgcaa 300
aacaccacgc atgattggtc caagggagga agcctctcgt tcctgaacaa gtggaacgcg 360
ccaatcaccg aagcacatct cgaaaaaatc acccgaattg gtctgcaagg aatcaatcat 420
gtttggcatc aatatccacg acaagtatcc agacttccaa accccaaaga atgtatggac 480
agcaacatcg gagagaaccg tcaagactgc acaaggattt atccttggat acaccggcaa 540
tga 543

<210> 1255
<211> 270
<212> DNA
<213> A.fumigatus

<400> 1255
caaccccagg aattcgtctc ccactacacc aaacctatca ttacgcgtct ccaagcccag 60
gcccccgcct tcaacttcac gtccgacgac atcgtcgcca tgttcgagct ctgcggctat 120
gagaccgtca tccgcggctc ctccccttc tgctccctcg gcctcttcac cgccactgaa 180
tggctcgcct tcgagtacgg gaacgatctc atgtacttcc acaacacagg ctacggccgt 240
gacttatccc ccgccatcgg cttcccctgc 270

<210> 1256
<211> 624
<212> DNA
<213> A.fumigatus

<400> 1256
acaagtggaa cgcgccaatc accgaagcac atctcgaaaa aatcacccga attggtctgc 60
aaggaatcaa tcatgtttgg catcaatatc cacgacaagt atccagactt ccaaacccca 120
aagaatgtat ggacagcaac atcggagaga accgtcaaga ctgcacaagg atttatcctt 180
ggatacaccg gcaatgaaac ggctcaaatc aaactcaccc aggtcggggg agtacaagca 240
cgccgcagcc gactcgttaa ccccgtacaa aagttgcccg gcatacagct ccagctatgg 300
ctccaaacag tccagtgtac gtactccct tcacctccac tcacagcacg agctaacaac 360
cccaggaatt cgtctcccac tacaccaaac ctatcattac gcgtctccaa gcccaggccc 420

ccgccttcaa cttcacgtcc gacgacatcg tcgccatgtt cgagctctgc ggctatgaga 480
ccgtcatccg cggctcctcc cccttctgct ccctcggcct cttcaccgcc actgaatggc 540
tcgccttcga gtacgggaac gatctcatgt acttccacaa cacaggctac ggccgtgact 600
tatcccccgc catcggcttc ccct 624

<210> 1257
<211> 186
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (48),(55),(93),(94),(104),(118)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1257
atggaaatcc cctcatatcc tcatcatatg ccactaatag cggaatanaa agaanatggt 60
agcagaaaca cccgcaaacc cctcattcac cannaaacca cttnccaggc cacccagnca 120
gcccaacgcg cgcaaactgg aatcactcac cagcctttct tttttcccac accgcatttc 180
atataa 186

<210> 1258
<211> 210
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (119),(169)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1258
ctttatatcc gtcccggttc ttcccttccc aaacccaagc ccgggccaga cgaaaagacc 60
ggacccgttc cggagtatga taagggtggt tcacaggcca aacgcctttc ggcgtctgnc 120
ggcccaaacg gaagttccag ggggagggcc ggacgatcca agcgcccgnc tgataaagac 180
aagacccagg gggggaggag ggttatatga 210

<210> 1259
<211> 768
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (28),(35),(152)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1259
ggggtttgcg ggtgtttctg ctaccatntt ctttntattc cgctattagt ggcatatgat 60
gaggatatga ggggatttcc atttacacga ctgcccagca agaaactgag gtcatcggtt 120
gatgctgcac cagaaaacct gaaccctatc cntgaggtac caccacagca atcgcctagg 180
cgaggtcgac cgccgaagaa gaagaagaag aagccagaac ggtgcccgga agaatctgcg 240
gggcacacgg agaagagcgc ggaaatgaca agcaaaaggc agacgcgacg gaggagatcc 300
ccggttacag agccagaacc gcaaccgcag agtgtcacac gttcatcggc gcggaagcgt 360
gaggaggccg aatctgtgcc caaggagaaa aagcgacgaa aaggcagacc gagcaagacg 420
gaagtcgagg cgaggaacgg ctttgtgtcg cctgaaccac agcagtccag tactgcgaag 480

attgcgctgc ctctagccga tacgcctgtg atccagcgga acaaggagat gcgaaaagag 540
gccaaatcgg aaaaaggagg gaaggggagg cggagtagcc tggggatgag aggaaggagg 600
gccagttcac tgattgattc tggggcatct aacggtacga atggtcttgt tgaatttgca 660
atggagactg ctgtactgac taccttccag cgttgcctca caaagaggtc gacacagccg 720
atttctacaa acatattgca gatgggctcc cagaaccgcg gaggatga 768

<210> 1260
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1260
agttcggctc ctgccaggcc cgtggtgaag accagtctgc tgaacccatc gaataatgtg 60
ctcaatgcgg acagggcact gttccatcct aaggtgcctt tgcatttaga aggaattctg 120
gctctgaatc tgctgagcgt ctatgagtac gcacagcgag ggaatttatg cacaatgact 180
gaccgagcta atgaggcgct gacatcagcg atgaaaatgt cgttgcatga gtctcttgag 240
gaggatgaat acggcggagg cccgggcgaa ggacctggtg gatga 285

<210> 1261
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1261
cccatcccgt tatttttatt gcgattgtct tgtgacgatg ccacccgggc catgatttcc 60
ctgcacagtt tcactcctct taagttttat tattcacttc tcagaccgat agctaataat 120
aaagcggctt cctacggacg cgtcgcattt ccagtgaatc aaatactact tgactgccaa 180
taa 183

<210> 1262
<211> 462
<212> DNA
<213> A.fumigatus

<400> 1262
aacctttcc atacctgcgc cccgcggtta aaaccgatca tccagcgcct ctacacggcc 60
aatatctacc atgatctgct ttacaccctg ggcttcaccg aaaaggccgg taacttcgag 120
tacaacacta acgggcaagg cggcctggga aatgactatg tcatcctgaa cgcccaggac 180
ggctctggca ccaacaacgc caactttgcc actcctcctg atggccaacc cggccgcatg 240
cgcatgtacg tctggaccga gtcgacgccg taccgcgacg gctcctttga ggctggaatc 300
gtgatccacg agtatactca cggtcgtacg tattaccttg ctggttttat tgacacacga 360
ctcacccctt ttttcagttt ccaaccgact cactggcggc cctgccaact ccaactgcct 420
gaacgccctc gagtcaggcg gcatgggcga aggctggagt ga 462

<210> 1263
<211> 231
<212> DNA
<213> A.fumigatus

<400> 1263
tttcatggcg acggccatcc gtctgaagcc cggcgacaag cgctcgaccg actacaccat 60
gggcgaatgg gcttccaacc gggcaggcgg aatccgccag tacccgtact cgacctcgct 120
gagcaccaac cctctaacgt acaccagcgt caactcgctg aacgcggtgc acgccattgg 180
cacggtctgg gcatccatgc tgtacgaggt gttgtggaat ttgatcgata a 231

<210> 1264

<211> 462
<212> DNA
<213> A.fumigatus

<400> 1264
tccacgagta tactcacggt cgtacgtatt accttgctgg ttttattgac acacgactca 60
ccccttttt cagtttccaa ccgactcact ggcggccctg ccaactccaa ctgcctgaac 120
gccctcgagt caggcggcat gggcgaaggc tggagtgatt tcatggcgac ggccatccgt 180
ctgaagcccg gcgacaagcg ctcgaccgac tacaccatgg gcgaatgggc ttccaaccgg 240
gcaggcggaa tccgccagta cccgtactcg acctcgctga gcaccaaccc tctaacgtac 300
accagcgtca actcgctgaa cgcggtgcac gccattggca cggtctgggc atccatgctg 360
tacgaggtgt tgtggaattt gatcgataag cacggcaaga atgatgcgcc gaagcctacc 420
ctgcgcgatg gggtgccgac ggacggaagt accctgccat ga 462

<210> 1265
<211> 660
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (526)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1265
cggaaacagc agagtttctc tctttcactg ctccataccc atcctctcgt tctcagtcgt 60
tctgttctcc ttatatccgt tttcttcata ccccttgaca ccatggaggc tcctcctcaa 120
atgccttcaa tctccgtggt ggcatcctcg cgcgccgtta tctcaggccg tttgacatca 180
gccacgattg ttatctctcg taccactggc aagatcactg cagtatttga ctcggtcatt 240
cttgcgtctg aatttcccgc ggggactcca tacaccgact attcccctca tgtcctcttg 300
cctggtctgg tcgatgcaca tgtccacctc aatgagcctg gccggaccga gtgggagggc 360
ttctacactg ggacgcaagc cgccgccttt ggtggtgtca ccacagtcat tgacatgcct 420
ttgaatgcca ttcctccaac aacaaccgtt gctggcctaa aggaaaagat tcaggccgcc 480
gagggcaagt gctgggtgga tgtcggcttc tatggcggta tcgtcnccgg gaatgctggc 540
gagctcaagg ctctggtcca gcagggtgtc cgcggtttca agggtttcct tatcgatagt 600
ggtgtatgta tctgttctct cgcgcgttct tcggtgcaca ctgaccgctt tatcctttga 660

<210> 1266
<211> 741
<212> DNA
<213> A.fumigatus

<400> 1266
gtgtgccgac acttactaac ctgtcatagc gggtactatg gcccggacgg caaccacaat 60
cagcaagaag gaggatacta cgatgctggt cagccgcacg accactacta cggtgaccac 120
tactacgacc agggcaatgg ccagcagggc tacgataatc ggggaagacg tcgaggtgat 180
tcagaagaag actcggagac atttagtgac tttaccatga ggtctgaaac cgctcgtgcc 240
gccgacatgg actactatgg tcgcggtgat gaacgttaca acagctatgc tgacagccag 300
tatggtggac gtgggtacgg gtaccgcccg ccgtcttccc agatctcgta tggggccaac 360
aggtcctccg gagcatcaac cccagtgtac ggcatggact acggcaatgc tctgcccgcc 420
ggtcagcgat ctcgggagcc ttaccctgcg tgggcgtcgg acggtcaggt ccccgtttcc 480
aaggaagaga tcgaagacat tttcctcgat ctcgtaaata agttcggttt ccaacgagac 540
agcatgcgca acatgtatga tcacttgatg acgatgctgg attctcgcgc ttcccgcatg 600
acgcctaacc aggcacttct ttccttgcac gccgactaca ttggaggtga caatgccaac 660
tatcggcgct ggtattttgc tgcccacctg gacttggatg atgccgtggg attcgccaat 720
atgaagcttg tgaaaagctg a 741

<210> 1267
<211> 396
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (8)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1267
atgatcancg gctcccgcgg cagcgagggc atccgggtcg tcctctcaga tgaatcagtc 60
agcgtcgaac ccttagacat cacaaaggct aaggccgcag agtctatcct ggagcagttg 120
cctgaaaccc cggacttcct cttcgtgact ggcggttccc gcggggacga agcgctcttc 180
cgctgggcca accgtctgca gggcgaaaat aagattccgg acgtgaccac ggtcaccgtg 240
ggctctcacg ccacagaggc cacggcagtt cttcccaccg gcatgagcat cgcggacgtt 300
gtcaacaccc tgacttcctc gagcgtgaat ggtgcgaata ttgccaacgg ccatgaacct 360
cctgtcaatg gtgacaactc cgccctttcc tcatga 396

<210> 1268
<211> 855
<212> DNA
<213> A.fumigatus

<400> 1268
tctcctgatt tcattactta cagtatggtt gccagatcaa gattctcgcc caccatattc 60
tatgctaaca cgccgcagtc tatccgcgaa aagtccaacc tcgaccccaa cctggttgaa 120
gatgtctgtg ttggtaacgt gcttgcgcct ggttccgcat acatcgcccg ctccgcggtg 180
cttgcagctg gcttccctgt gacggccgcc gcctccattg ccaaccggtt ctgttcttct 240
ggattgctgg cgatccagaa cgtcgctaat cagatcatgg ctgggtctat cgatatcggt 300
atcgcggtcg gggccgagag catgagcacc aacgccgatg gaggggcccc agagatgtcg 360
gctcagatcc tgtcgcatcc tattgcctcc cagaacaccc aacccatggg ccagacctca 420
gagaacgtcg cagcccagtt caacatttcc cgagagcaac acgatcagtt tgccgccaag 480
agttatcaga aggccgagcg cgcgcaaaag tccggttgga ctgccgacga gattgtgccc 540
gtcaagactc aagtcaaaga tcccaagacg ggcgaggtga aggacgtcgt cgttgatcgt 600
gacgatggca ttcgatatgg caccaccgtt gagtccctca gcaagattcg ctctgcattc 660
cctcattgga aacccagtgg ccccacccgg ggaaaatgcc attcgaatcc ccgatgggcc 720
cccggtgttt ttcctataaa ccggtccctt gcccaagaaa tccggaacac caccattggc 780
aaatttgggc gaacaacttt ttccgggttt gggaaccccg atttttgggt tttgggccct 840
cccttggata tcccc 855

<210> 1269
<211> 705
<212> DNA
<213> A.fumigatus

<400> 1269
ttgcgtacgc ttagcgcgcg accttcgacc ctcgtggtag aagacgatcc tatgggtgtg 60
atgcgcttcc acttcaagag tgcaactgat cttcggaacc tggagaagat gggcaagtct 120
gatccatacg tcagggttct gctgtctgga attacaaagg gccgtacggt tactttccga 180
aataacctca accctgagtg ggatgaggtg gtatatgtcc ctattcacag cgcccgtgag 240
aagcttactt tggaggttat ggatgaggag tccctcaacg ctgaccgcag cctgggctca 300
tttgaaatca acgcttctga ctacgttcat gagaatgaga acggcgagta tgagaccgac 360
gacgagaagc agctcatctc aagtcctctt cgcttgggcc accgtgaaaa gggtgttctc 420
aactacaccg ttgcattcta cccggctgtg cctgtagtta accctgagga tgaggaagaa 480

gaggaagctg aggagatgga aggtctcgat gtcccagcag tgaggaagag tatcgactct 540
aggcgcaaaa gctctcattc caagaaccct agcgtcgatt ctaaggcgtc aaaatccacc 600
gccaatggcc aaaacggtgc tgcgacaaac ggtactacga ctaatggtga tgaactcaag 660
gtacctgtct tcaccacagg ggggcgaacg atccgcgcta agcat 705

<210> 1270
<211> 762
<212> DNA
<213> A.fumigatus

<400> 1270
aagagatgtt tgccggccca agattcgtta tcaatttggt taccgtgccg ggctgtcttg 60
gctgactgca ggcatggttt cggtaaagac atatacgacg ccagtgttgc tcagacatgc 120
atttcgaact tgctcgctat cggctaccgt cgtttcctaa ttgacatata ctggtcggtg 180
gagcagcgaa attggatcct ttgcccagtc gcaaaaccgc aggacgctca ggttgtcaca 240
gtctcgacca cgcgttctcc cacagccacg gccagtgcag tcacaggcac cctcacagca 300
gtcgccgctc cgtcaggctc gctactctac gagctcggtc cctatctttg ctccgataat 360
ctggaccttt ctgggctagt tgatattttc gcagagcatt tccgagtcac caactctcaa 420
tggaatgtgt atacgacgtt catcacggta aaccttcatg tggcatcaag tactgcgtcc 480
ttcgatcagc cagctgcatc cgtcaccaac gagcagctgc cgttaccgtc agaatacgtg 540
agcgctttgt ttaatgcgcg tctttctaca tacatataca ggccgtccga attagccaag 600
gagcgcaaga acctcaacga atcatggtat gcagttgacg atggatacca gcctatcacg 660
gaatacttca cccttcacga ggatgcgaat ggaaagcaaa gtacgccgga tggctggccc 720
tcttcgaaat atgtgcaact cgcgcaagag cggcgaatct tc 762

<210> 1271
<211> 660
<212> DNA
<213> A.fumigatus

<400> 1271
agaatcctgc aattcttcca gcagatgtgc ggtggtaatc tgatctctgt gtacgcctca 60
acgatatttg agcagaacct cggcctcagc gccagcctgt ccaagaacct ggccgcctgc 120
gccttaacat ggaaattcat ctgctgcttc atcgccttct tcaccatcga ccggctcggc 180
cgtcgagtcg tcttcatgat cagcggcact ggcatggcga tttgcatgat tgcgctggcc 240
atcaccaaca gccgcggcac agataacaag ggcgcgtcca tcgcctccgt cgtcttcatc 300
ttcctcttca atctcttcta cccgatcggc ttcctcggcg gtaatttcct ctactgtacg 360
gaagtggctc ccgttcgact gcgtgtggca atgtcgtcca tctcgacggc gaaccactgg 420
ctgtggaact ttgtcgtcgt gatggtcacg cccatcgcac tggacacgat cgggtaccag 480
tactacgtca tgtatgccgt gctctcggcg tgcatcccat tgctggtgta cttcttctac 540
cccgagacta tgaaccgcaa cctggagttg ctgaaccatg ttttcaggga cgcgtcgtcc 600
ccctggaaaa ttgtttctat ggcgaagcat ctgcctcagg gtgaggtcac cgatgcataa 660

<210> 1272
<211> 315
<212> DNA
<213> A.fumigatus

<400> 1272
agcatgatgg gtttctttcc ggtccacgga caggacgttt acctgatcac tccgccattt 60
ttcaaggagg tcagcatccg caaccaggtg acgggcaagg tggcaaccgt gcggaacacc 120
aatttcgacc ccagctacaa ggcgatctac atccaaagtg cgaaacgcga cggcaagctc 180
tggacgaaga actggatctc gcatgatttt ttcgtggacg ggggcgttct ggaacttgag 240
ctggggccgg ctgagagcgc ttggggcacc catgtggagg atttacctcc gagtctaggc 300
ggctacagga tgtag 315

<210> 1273
<211> 972
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (956)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1273
tgttttaagc cccggggaaa agtccgttgt tccacacccc ttacgcagca cattggacag 60
cagcccgcaa gcgagccagc ggtcttcagg ctgctagttc tcgcagaccc ccaactagaa 120
ggtgatagct ctctccctag tccggacaaa gagctctccg cccgaatcaa gcagcactgg 180
acttcaatca ggtcgtctgt aacggattcc gggtcgccct tccaccgcga tgtcttacgc 240
aacgtaactg ccgcgcttcg cacactcgcg cacgaagacg ttccgcggtc gattcaggcc 300
gcgagaaagc gacttgattt agtcgggaac gatttctatc tcgcgcatat ataccgtacg 360
ctgcattggt ggtcacgccc tacgcatgtc acggtgctgg gggatctgat tggaagccag 420
tgggttacgg atgaggagtt tgagcggagg gcagacaggt actggaaccg ggtgtttaga 480
gggggcgagc gggtcagtga tgacattacg gttaccgggt cagcggggta tggagcaggc 540
tccggggatg tgtccgcgtt ggaggagctg aatgcgacgg actcggcttg gacgcggagg 600
atcatcaaca ttgctgggaa ccatgatatt gggtatgcgg gagacgccag cgaagaccgg 660
attgagcgat ttgaacgcat atttgggcgc gcgaactggg atattcgctt tcagcatacc 720
ctcgggaacc aagccggtgg cacggcagac gctactgtca agcctaccct gcacctgatc 780
aacctcaaca cgctgaccct ggacgggcca gccctatccg aacaagtcca gtcgaacagt 840
tacgccttta tcaacgatct gatcacccat cgcacgtacc ccgttgaaga tcggacaacc 900
tttacacttc tcctaaccca tctgccgcta catgtcttca ccgcggggtt gcaagnggcg 960
tgctataata at 972

<210> 1274
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1274
cgagggtgtc aatgctgcta catcccaagc gcctctgcgc tcttctccac ctcaaccaat 60
acgttcgtca cctcctatcg cgccccctcg ctttattcgc cagggtacac ctccaacgcc 120
ttctcatccc acaccttccg ccactgttcc tcactctcgc caacgagagt cgaccacaat 180
caacgatag 189

<210> 1275
<211> 813
<212> DNA
<213> A.fumigatus

<400> 1275
ttttccagcc ggctggtgaa gactcaattt cttaaggata agcctttgcg tcgtgcaaca 60
atgtcaagtc ttcctcttcc tgttacctcc cagagagagc ctgctcacac gcaaagttcc 120
agcacgacaa catgggccat tcccccaccc aaccacacct ttgtgccgaa gagctctaag 180
aatgtggatc tttcttctga tgccacaata cccgcctcag accctgctct tcaggacgac 240
atgagtgacg agggtgtcaa tgctgctaca tcccaagcgc ctctgcgctc ttctccacct 300
caaccaatac gttcgtcacc tcctatcgcg ccccctcgct ttattcgcca gggtacacct 360
ccaacgcctt ctcatcccac accttccgcc actgttcctc actctcgcca acgagagtcg 420
accacaatca acgatagcgg gtacttctct tccctagagt cttcggcaat gcgtccaaag 480
aagacagggc atatattaac gtcggacctg gatattgacc cccctcgtat caaacgtggc 540
cgagcagaag aggagatagc acgaattcga agctcttccc acgatatcag tccaagacgt 600

cccgggatgc tcacagatgc tggggtagta acggggtctt cgccggctcg cggtgaatac 660
gtcagcatgc tgcctcctcc tctgacgccg gtgaataaat tcaagaagcc agttaagccc 720
ccgccgtccg tgtctcccaa cacaaacctt ccggaatcac cgcaagaaaa tccaacaaat 780
ggtcaattct cccttaaaaa aatcggggct taa 813

<210> 1276
<211> 246
<212> DNA
<213> A.fumigatus

<400> 1276
ccctgtttct tttcgtttga gggatctacg acgcaggttg cttacacatc tacagagtct 60
ggtttcttgg tgttcaagtt ccacgaggct cagctctctc gatcgaatgt gcagttggag 120
gttctgatgg acgaccacat gttcccgtca tactcgacac ctaagatccg ctcaaaagct 180
gccaagctcg ttgatggttt gtcacccgag ggtaaatcta cgggaaaaga ggctgactcc 240
tattag 246

<210> 1277
<211> 663
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (592),(609)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1277
gatgaacacc agtatattga gtatgcccgt cagcagaagg cgtacaagaa gcttacgaca 60
atatttacgg atgctttacg acttcaccct accagcgtgg acctatggat ctatgcagca 120
caatacaatc tggatgatca tgcagatatg acaatggcgc gaacctatat gcagagaggt 180
ctgagatttt gcaagagctc aaggaaactg tggctgcact atgcgaaact cgagttgatc 240
tacatcgcca agcttgtcgc tcgacagcgg atattgggct tggaccagaa gattgaaacg 300
actaacccgg ctgaagggtc tggattcgat gaccctaatg ccgatatgat cgctttacct 360
aaaattaccg gggaagatat caaccctagc gccggagatg aagacggagt tgatcatgtt 420
gctctggaaa aattgaactc gacgcctgct ttgagcggcg cggtcccgct ggccgtcttt 480
gatacagcga tgaagaactt caacaacgat gaccgcttcg gccacgaatt ctacgacatg 540
gtctccgaat tcgaagacct accgtgcctg cgcaagatct tgggacatgt anttgaggtg 600
atgtcgcanc acaaaccaaa cagctaccat acgcatatct gcaacatcaa atacccaact 660
gct 663

<210> 1278
<211> 738
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (622)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1278
agacaggatg gtaagggcga attttctcct ctgaaggcga taactgagcg tcatcatccc 60
tactttgtcg agcttctggc tactgaggca ggtgtcgagc ccgccgacat tcttgacttc 120
gaaatgattc tatttgacac ccaaaaatct tgccttggtg gcatgcatga ggagttcatt 180
ttctcaccta ggctggataa cctcaacagc tctttctgtg ccactgttgg cttgatcgag 240

tctgttgctg attcctcggc actggatgat gagacatcta tccgactgat ttcattgttc 300
gaccatgagg agattggaag ccgtactgct cagggcgcgg actcaaacct ccttcccgcc 360
gtcattcatc gcttgtcggt tcttccttcg acttcgtccg accaagacga tgtatctaca 420
gcctatgagc agactttgtc tacctccttc ctcctatccg ccgatatggc tcacgcagta 480
cacccaaatt acgctgcgaa gtacgaatcc gatcaccgtc cagagatcaa caagggccct 540
gtcatcaaaa tcaatgccaa tgctcgctac gctacaaact cgcctggcat tgttcttctt 600
caggaagttg ctcgaaaggc ancggaaaat gggggcgaaa gaatccctct gcagctcttc 660
cttgtccgcc acaattccag ctgcggtagc actatcggac ctatgcggtc tgcctgcact 720
aagtgcccca acccttga 738

<210> 1279
<211> 1227
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (407)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1279
tgcctcaagc ccttcgggga taacacattt gtccagatga aaaggctgca gctccttcga 60
tggagcagtt cggtccgttc accacggcca cgaactaaca gccgcttgca ccagcgtgta 120
tgtgctagtt tacggtatca atcgacatct tcgcctgtta ctcaggccga agaacaccag 180
tcgattgaag agcaatcttt gcgttcacca atacctcctt ccaactcacg acagtcgaga 240
tacctcctcc cttctccccc ggttgaagcc gcgcgtgagt ccgcaaaact tgccgcgctc 300
catgcacgac tttacctccc atctcgatta cccctagaaa cactagctcg tgcactggta 360
gacgcttcag cggacccgaa tccagatttc aacaatgaat cgctggntac gttgggccat 420
gaccttctca cgaactacac ctccgaacac ctcatatgca catatccccg acttcctctg 480
actgtaatct ttgcggccat gtatgcgtat gtcggaccga aaacactttc cgcgatggct 540
agggaatggg gtgtcgagat ggctgtcgcc cctggaggag aggttgaccc tggccttctg 600
cagttcagga gggtctctcc cggcacggat ctaaatgcag aaccagtcac aggtacagcg 660
aggcccaacg accatcggaa gtcatggagg aagtcgatta catccagagt cgtctacgat 720
aacgagttcg gtgatccggt caaggaagtc gccgactcag cggcccaggc tgtctctgaa 780
acccacggcg ctcaaggcgt cacggccgaa caagccagtg ctaccttcgt gcgcgccgtc 840
atgggcgcca tctatctgca tgctggccgc cctgctgcca agcgtttctt tgagcagcat 900
atcttgtcac gacacctcaa catctccgag ttgttcaatt tctcccagcc agctcgtgac 960
ctcacccggt tgtgtgcgcg agagaacttc gaacgccctg tcgccaaaat catcagtgaa 1020
actggtcgta agagcagaca ccctgtcttt gttgtcggta tctactctgg tcaggataaa 1080
ttgggcgaag gcgctggcgc cagtctgatg gaggcccgat cgagggctgc cgtggccgcc 1140
ctcaagggct ggtatttgta cagcccgctg aacgttcgtg tgcccagctc gatggaagaa 1200
gagggcgctg cgccctggaa gcgtctt 1227

<210> 1280
<211> 582
<212> DNA
<213> A.fumigatus

<400> 1280
cgattccagt ggtgcgacct ctccaaaaca gacgcagtct cgacgaatca gtcagccgct 60
catctgtcga agcgcacgca ccggttcttt gattcccggg ggcccgacgg gtcacgcgca 120
ccccggccag acgcgggtgc tgatggcgta cgggcagtca tccaaggtgg tcaagtcctg 180
accttcaagc gcgaccatca caaactcttc tcgcatcatg gatacatcta caccatgctt 240
cttgtccgag gcctgcttga atcatcgcct acggaggagg tgcttgtgac gggcgctggc 300
gacggcgtgg tcaagctgtg gcggttggac caggacgagg cgccgtccga aatggcagcg 360
ctcgagaacg gggatccggt tcttgcgttg gccgtcgacg gatcgttcct ctactgtggt 420

ctgtccgggg gtgcgctaaa catttggaat ctggactctc ggcagctggt gaagcgcatc 480
accggacata caggtgacct gtgggctgtt gatatcgttc agggattggt ggtttgtggt 540
gattcgaatg gagtcatcaa ggtatgttct tggctatact ga 582

<210> 1281
<211> 237
<212> DNA
<213> A.fumigatus

<400> 1281
tgttggagcg tgtctgatct cgtgaccaga aatttaattc tcgatttgaa gaagtgggca 60
gctggattgc tcaccgagga acgatgcttg cgtctgcaac ccgcccgttt cagggaccgg 120
cttatctacc ccagtggggg ccatgacatt accgtgggca atttggatat gacgggaggt 180
gtcttaccag ccgaaaggac cagcccccga ccattaacgg gtaagatcga gaacatt 237

<210> 1282
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (29)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1282
cgaacattga gcaatgaaca cactattanc atcacgcagc tgatggacca tgctcgaaat 60
catataagca cccaccgagg tactcatggc cggctgggat gcaagattga acgtacccag 120
gcttacgagg gccagattac caccacggct tatgacatta tcctcagcaa gatccagcaa 180
ctgcaaagcg tatgcgtatg a 201

<210> 1283
<211> 441
<212> DNA
<213> A.fumigatus

<400> 1283
cactccgtgg actttcaagg aagagcgcct gcatccctca tctcattagt ggtactacgc 60
tattgttcct cggcccctgc agcgtattta agaatcccag gaatcaaaaa caacgctcat 120
cgcttgttag gcacaaagca agcttgcttg tttcgcgata aatatgatta tataacatcg 180
actggtttat cgatatatgg gctttcggcg gactccatca aagcaaacag ctcgttcaaa 240
gccaagcaga gcctccccta tcctctacta tgcgatacgg cgtctactct catttcgagt 300
cttggcttta agaagactcc tagaggtacg acaaggggg ttttcgctgt tgataaacaa 360
gggaaggtct acttttgcac cctggaaggg caaatgccac atgggaagct gttacgcaat 420
ttatctcgcc gtgttacata a 441

<210> 1284
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1284
gccagtcgca aacatcgggg aacggagttc accagggaag tcattatcgg tgatgattgc 60
tggattggag cgaatgtgac tatcttggct ggggtgacca ttggatcagg gtgctccatc 120
ggtgctggct ctgtggtgaa gagagatatc ccgccgtata gtattgcagt gggaagtcct 180
gctcgagtta tcaggtcggc agtctga 207

<210> 1285
<211> 195
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (9)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1285
ctattcgtnc acaggcgaat ctggccccag aacgaatacc ttgatcttgg gatctacaat 60
actatcttta gagctctctc tcatattccc tcttttcttt ctccgattgc ctacgaaaaa 120
aataaccgat tgttgatttc tctcgcgaac aggcggtttg actcgaatat cgtgctatct 180
caagaagcag aatag 195

<210> 1286
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1286
ccagggttgc ggaatgagcg actctgtaaa ctaatgttta gtcttactaa gccacaactg 60
acggggttgg ttactttcca gtacctccta tggtcttata cttcaaaaca ataccatctc 120
ttattcaagc caattatgat gaaggatggc atcagtgtcc cacttcctgt cgtcatgtgg 180
cataggtcct tgatcatccc accccactgc tctagtcata gggactgttc ttgttcctgt 240
tga 243

<210> 1287
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1287
ttttttttatt gcacggaccc ttccagcccc gcggtgaaga ccaccgacaa gtcaccgatc 60
cgaacgcgct ctggcgccgg tcaaaagaag cgtggcacca aggagtccga cgaaggtttc 120
tcgactgttc ctcccaagaa gggggccaaa cctcagacga aggaggaatt ggagaagttc 180
cctgatgtcc ctgacgtcca gggcactaat ccttttgagg aactggagaa agctgcttaa 240

<210> 1288
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1288
tcaattaggt tacatccggg agtgtgtgtc caggaagatc ccctgaagga atggctcaat 60
aatgtcccaa gtctaatcaa cccctgtaca agcagtccgt ccacggcaaa actcccgcct 120
gtcgagactg ttcagaactt tgagtggaag aaaaaataca gttcagctat cgtgcggatc 180
ccccactga 189

<210> 1289
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1289
gctgtccggg ttgctgctga taccctggcg gggttggact atgctggtaa tgctgctgat 60
gtgggttttg ctgaggtggc agctggcctg tgggctgagc agcagtatac ccatgaggtg 120
gctggccccc atgttgagaa ctctgctgtg acatttgctg ttgctgtagg tggtgctgag 180
gttgctgctg aggctgctga atgtggtgtt aatttgttgc cgtttctggg cctgtctgtt 240
tgccgttgct gccgctgccg tttctgctgg gacggctttt tttaa 285

<210> 1290
<211> 903
<212> DNA
<213> A.fumigatus

<400> 1290
caccacattc agcagcctca gcagcaacct cagcaccacc tacagcaaca gcaaatgtca 60
cagcagagtt ctcaacatgg gggccagcca cctcatgggt atactgctgc tcagcccaca 120
ggccagctgc cacctcagca aaacccacat cagcagcatt accagcatag tccaaccccg 180
ccagggtatc agcagcaacc cggacagctc acattccagc aaagccctct gcaggcaaac 240
tttcaacaat ataaccctgg tggttccgtc tccgtgccag ggagagccaa cggtggtcaa 300
tcaaatcatg gatatatgcc tggaattcct cactactcac aatcacaacc cactcaagtg 360
ctctatgagc gtgctcgcat ggcggcttcg gcgaaatctt ctccaagcag tcgcaaatct 420
ggcctaccaa gccagcgccg cccctggact accgaagaag aaaacgcttt gatggctgga 480
ctggatcgcg ttaaggggcc gcactggagt caaattcttg cgatgtttgg ccccgggggt 540
actatcagcg aagccctgaa ggaccggaat caagtgcagc tgaaagacaa ggcgcgcaac 600
ctgaaactct ttttcctcaa gagtggtatc gaagttcctt attacctgaa gttcgttacc 660
ggtgaactca agactcgcgc tcctgcgcag gccgctaaac gcgaagcacg ggagaggcag 720
aagaagcaag gcgaagaaga taaggctcat gtggaaggta tcaaaggcat gatggccctc 780
gctggcgcac attcacagcc cgttccgctc ggacacgggc acgaggcaat gtctgcttct 840
cccagccttc cggatactgg cagccattct acgttcgatc aaaccgcaga atcttcccca 900
cgg 903

<210> 1291
<211> 384
<212> DNA
<213> A.fumigatus

<400> 1291
gaacgaaaat acttcgattc gggcgactat gcattgagca aagccggtaa agcttcggat 60
gtcggggtca ctaatatcgg ttctaagcac cctgttccgg agaacatccc gcatctgact 120
gctacatccc ccggtgcaaa caatcccgct gctgccagta atggtagcag tgccagctct 180
caaggccaac agcaccatgg cagtattagc ggtcaccctg gctcgattgg atttcagagt 240
cggagccccg tgaaggaagc aagctactta caacgcggaa ctagcgtcga tgatacggag 300
ggtgtcgacg attcagcaaa gggggggaac gatcccagcg tgagccctcc tcctgatcgc 360
gatggtgttc ccatccgccg atag 384

<210> 1292
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1292
cacagatggt tggtccagct ggctgaagat aaaaattata gacggatctt taagaatgct 60
gtattattaa atagtgcttt atatatagtt aaactattta ctaataacct tttaatcctc 120
acatttagca cactaatagt tatatctccg cgaatactat gttttaagct ccttatagtg 180
attgataaag gtagaaacct agttcttgcc tatatagagt taagtacctg ctag 234

<210> 1293

<211> 201
<212> DNA
<213> A.fumigatus

<400> 1293
cccttatcca cagctctcaa aactgtgatc tacgagtctc cccgtcttac tttttccctt 60
taccctttct tgtcacagta catttttttcg aacttcaacg ttctccatgg cggacagaaa 120
ggccattcag ccgaatcctc acggtctgtt gttgaacctc gacgatccat atgcggatct 180
gaaaatcctg tccttgaatg a 201

<210> 1294
<211> 906
<212> DNA
<213> A.fumigatus

<400> 1294
aacaatttcc cccccaggtt aattcaacca acccacccgc cgttcaaagc cctgaaggaa 60
agattaatgc tgcccggatt cggagtgcat ccccatcggc gcggtgtcgt ggatgaattt 120
ccctccagcg cacttccaac accggcggaa gccacagcgt ccggaatgcc gatggggcat 180
catcatcacc accaccatca ccaccatcac catacctcac gtccgacagc ctccgtggcg 240
aactccgcag ctttgtcacc gatgcgtgaa cctcgcacgg tggttacaat tgaacctgtt 300
gtctcgagtg tagcccatct tccacggcat catcttgggt ccaccctgta tattccacgt 360
attgatattc cttccgcgaa agctcccttg gagagcgcca aattcggcta caccactact 420
ccgctcccga ttccccgatt cgagggcaag gaaaactgca cgtttaccgt acgtgtacct 480
cgatttcgta tcgacgcggg tcgccgcgag gaaatatgcg cgcggcgagc cctctggggc 540
actggaatct atacggatga ttcggaccct gtggcggcag ccatgcattc tggattcttc 600
cgcggtgctt ggagtgaaga aattgacgtg gatatgcttg acctcgagat tcgtgacgca 660
tatcaacacg cacctacgac ggcggaggat atgggcttga caggagaccg accacggatt 720
ccgcccgtac ctccaacaga caaggatctc cacatcacac tcctgatcct gccgaagctg 780
gaacgatatg aatccagcgt ccttttttggg ctgaagtctc gttcctggga tggcaaccac 840
gacggcatga gctttaaagt gctccgcgtg gagtgggttg atgagggtgt tggtcgcggc 900
ggtctt 906

<210> 1295
<211> 453
<212> DNA
<213> A.fumigatus

<400> 1295
cagcgtagtc gacgcgttta caccgaagcc atccaaccag ctaccatgcc atccacaccg 60
catcaaacct ctgggagatg ggtggagcaa gagggaagga ttcaactagc aatatcagcg 120
ttgcaaaaga atgaagtggc cagcatccgc cgcgctgcag agatcttcca tgtgcctcga 180
tctacccttc gaggccgact gaacggatgc caatgtcgag ttgaaaagcg cgccaatcat 240
caccggctat ctcctacgca ggaagaatca aggcttgcaa cgcctcatgc acttcggcaa 300
tcacaaaagc aagcatcctt agtcaagaag ctcctaaaac aacgatctca aagcacttcg 360
acgacttcga aattggccat ccagcagatt atcaagggtt gcgagatgat tatgcagggt 420
gtcttcacca cgagggccga cgatccgcgc tag 453

<210> 1296
<211> 414
<212> DNA
<213> A.fumigatus

<400> 1296
gcaggtcgtg ctttttggga ttcatgtttc gagatgataa gttgcgtcgt cattttgcta 60
ttggccagtc tggcagcagc cttgtccgcc gtccagttcc ctgacaatgc gaatcacata 120

ttcaacgcca tccattcctc aatgagacaa tggggctcgt ccctccatca caatggcatg 180
tcgtttttcc tcgcatccgt gcctgcaggc acccagctgt atcatggcac acaccagcgg 240
gatcgagtga atgggacaga atggctcgcc tttgaacccg aacacgccat ggtctttgcc 300
gcgttcggac caggtcgtgg acctccacct ggcggtccgg acagtcctga ttatgatgat 360
ccacgcaggc gttcgttccg tcttcaccac gaagcagccg catccgcgat agtt 414

<210> 1297
<211> 660
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (598),(654)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1297
atcagaacaa tcaagagaga cgggggggcta attctgacag atgttcttct aatcgacggt 60
ctcaccaaac gtttccgtct ccccggctgg cgtatcgcct ggatcgtcgg tcccaaggag 120
ttcattgacg cattgggttc cgctggctcc tacctcgacg gtggtgccaa tgtgccattc 180
caggaggccg ctatccctat gctcgagcct tccctcgtgc gcgcggaaat gaaggcgctg 240
caacggcact tcagggagaa gcgtgactat gttctaaagc gactgcacga gattggtttc 300
cgcgtcaaag atgtgcccca ggcaaccttc tacatttggc tcgacctgac gtccctcgaa 360
ccgcctcttc ccaaggaggc caatatttcc gacggactga acttcttcaa tgcccttctg 420
accgaaaagg tcatcgtaat ccctggcatc ttcttcgatt tgaacccggc aaagagaaga 480
gatctgttcg acagtccttg ccaccatttc gtgcgcttga gttatggacc acagatggat 540
ttcctcaaga agggtctgga cggcatcaaa aaggtaatcc gtcgtgctcg tggaaaancc 600
gttgagcttc ggcctcacac tgatcctcac tgggaagatg aagttgccct gtcngattaa 660

<210> 1298
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1298
gaaaccccac ctgcaacgga gtatcgagta acctccattc gaccctccaa gttccggttc 60
accacatttg ttacccataa cggcccgttc ctccaattaa taacccccttc atccaagggt 120
gggatcccaa ccggggataa cttcattcaa tcttccatca accatttttc tcaacttttg 180
aaaattcatg aaggccagaa cttgcccccc aatactctcc ccccccaaat ttaa 234

<210> 1299
<211> 237
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (21),(77)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1299
tccgtcgtgc tcgtggaaaa nccgttgagc ttcggcctca cactgatcct cactgggaag 60
atgaagttgc cctgtcngat taaaccgtct catcgattaa ctgccaccct cgttatttcc 120
tccttccaac acgttgaaac atgttacaga aaccttccat acgaatctgg aataagccac 180
ctacataata tcatgtggca gactaagaaa ccccacctgc aacggagtat cgagtaa 237

<210> 1300
<211> 825
<212> DNA
<213> A.fumigatus

<400> 1300
tggcatctta ggcttgacgg aaaaggggtt ttcaaacaag gtctgctttc tctacgcacg 60
aaacttcagc agcggtacta cacgtcggtt gcagccttct cggccgacct agcttccata 120
ttcacgtcgg aaataggggt tcaacctgcc ggggacactg ctgagttgca gatgcagatc 180
agcgggcgcg ctcctgaact ccctcttgaa cagcgtgaga agagaaaatt agctaagcgc 240
atcattaagg ccatccagcc cgctctcgag gatgcgatca agaaagaaag cgagctcaac 300
cgcaagccct tcgaaaagga actgaaagag ctggatctca tgtttgagaa cagcgtcctc 360
tcccgaagag gatcagtgga agaaggatct gcaaagccag ctgaaggcga agcgcgtatc 420
gataatccgg tttctggtga agtttcggat ggtgtgcaag agaaagtggg tagtaaagca 480
gggcttcctg ccaaagtcga gcctcaagag gaatcatcca cctcggccct acctgagaag 540
gctgaggata ctgccacgct tgatgccggg aacgaccggc atatcccaga tgctcaggca 600
caggatactc ccatgactga ttctgctgag cttactgctt cggcggctgt gacggagcca 660
gaagatcaga ttgctcctgg agcatcggca acaattccca ccagtgctga agcacagcag 720
gaagccgggc caagcaagga ggaagctaat agctcgccac tactcgcaca gctaactgaa 780
tcccagaaag ggtcctcaca ctcgtgttca ccacggggct ggtag 825

<210> 1301
<211> 810
<212> DNA
<213> A.fumigatus

<400> 1301
acattggttc aatcccagag ttccacggcc gtcgcctgca ttcaatggac ccaacggaaa 60
cgttcttcag cggggtccgg cggtcgaatc ggtggattgg cacagcagtg ttccagccaa 120
aatctcaagt ccaccaagct caaagtgccg ttcgcgttcc actcggccca agtggacccg 180
attctcgagt cgttcgaaga gagtgctcag ggggtcatct tccacgaacc tgccgtcccg 240
ttcgtctctg ctctgaacgg agaggtaatc acggagtcga actacagcgt gctgggcccc 300
acgtatatgg tgaagcattg tcgggaagcc gtcaatttcc ttggcgctct tgaggcgacc 360
cggcacgcca agttgatgga tgacgccaca ctctgggtcg aagtgggatc ccatcccatt 420
tgctcgggta tgatcaagtc caccttggc ccgcaggcga ctaccgttcc ttcgctccgc 480
cgcgacgacg atccatggaa aatcctctcc aacagcctct ccacgctgca ccttgcaggc 540
gtcgagctca actggaagga attccaccag gacttcagct cggctcacga ggttctcgag 600
ttaccccggt acggctggga tctgaagaat tactggatcc cctacacgaa caacttctgc 660
cttaccaagg ggggtcccgt taccgcggag gtatcggcgc ccaagtctac cttcctcacg 720
accgcggcgc aaaagattgt ggaatgccgg gaggacggaa acaccgcgac attggtagtt 780
gagaataata tcgcagagcc agaactcaac 810

<210> 1302
<211> 513
<212> DNA
<213> A.fumigatus

<400> 1302
ccctttatga aagctgactg ggtacactat atctcagcgg tcaagtgcaa tgacaacaaa 60
acattgttga ctatgttgtc gagagccggg accgggttcg attgtgcctc gaagaaagag 120
atgcagcaga tcctccagct tggcgtcaat cccgagagaa tcatctttgc tgcccctcga 180
aaggcagaag accacattaa ttacgcccac gagcatggaa ttgacaaaat agtggtcgat 240
agtgaggatg aattgcgaaa attggcggag attgttcctt cagcaacgat tttcttgcgg 300
ttacgggcag acgacccaac ctcccgagta cgtctttcgg agaagtttgg gtcggatctc 360
ctcgaggcta ggggtatatt gcaagtggcc gtcgacttgt cagtcaaagt tactggtatc 420
tgctttcatg tgggatcggc tgcttcggat ccaggagcct acgtaagatc tatcgcaatg 480

gcccgggaag tctacgacta taacgagact ctg 513

<210> 1303
<211> 486
<212> DNA
<213> A.fumigatus

<400> 1303
catccaccaa aaacctctgc aactgtgtgt tctcttccct ccgtatcacc gcacaagctg 60
accagcctcc cagcatgcaa aatcttccgt ttctgcagcg aaccatgcca caaagccagc 120
ctgcaaaaac acctccccta ctgcatcccc tccgtgtccc tccgcgagtc caaatccctc 180
gccgtcaagc ctcgctgccc accctgggtt cgagaccagg ctctctcaaa aatccgccct 240
ctcgacaggg acaggaccgt agacgtactc gccagctaca ccttctattt tgacccgcgc 300
aactttacca ccttccggat gaagctcagc tccctcacaa acacccttat catcttctct 360
ctagactccg acatccgttt cgcaacaatc gacagtagct tatcaccatc atcatccgga 420
catggcaaca caagctcttc gtcgccaaca actgccagcg ccaacccccg gggaatccaa 480
tggcta 486

<210> 1304
<211> 864
<212> DNA
<213> A.fumigatus

<400> 1304
tcgaaggctc cttgcacccc cgcggtgaag actttggctt tgcatgacaa tgcgcaggaa 60
tccgtggctt cttcccttcc tggtgcgact gctcagaacc atcagtctca gacaggccaa 120
acaaacgagc cgacaaagtc tcctagtcat cgccaaaaca atagtaacac gttgcttggc 180
ggcatgtcac ccagcgaggc tgctgttcag tggccacttg atcgagtgct gctatggctt 240
gcgaaaaatg gtttctcgag agattggcaa gaaacgttca agactttgca aatcgaggga 300
gctgatttcc tcgacatagg tcatggggcc aatggtcggg gcaacttcaa caaaatgcac 360
aacgaagttt tcccccagct agccaaagaa tgcgaagcta gcggaacagg atgggacaag 420
gaacgtgagc ttggggaagg caaacgcatg cgtcgactta ttaggcagat tcacgatgac 480
gaaagctttg acgtcgggat ccctgctcag aaacgtcgtg aatcccaagc cccatctgaa 540
ggggcgccgg atacctcacc taagttatct catgagcctc agtctgctgg accgcattca 600
gggacgattg aaaatagccc caacctcaga gcacctcagc tcgctcagcc ccatagacac 660
agtgtccaaa tgcgctccgt cacattgccc atcccgacca ctcacgatat tgcttcatca 720
catttcagcc acaaggacgg tatatcgtct cgatcagact tctcgcgatc ggtattagtt 780
ggccttgggg ttgatcatcg tcagcagaac ccatccatgt ccagtgacaa ctgcaatttg 840
gtagcccctt ttcgatcgta ttaa 864

<210> 1305
<211> 198
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (118),(142)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1305
ttttggcttg gttggctcaa cagtgtcata ggcaaaagca cgattgaagc ttcaaataat 60
cctgcgcaga ccgatcgatt gttcttgatc ctacggtata tttacaggat ggactggnct 120
atgcaattta ccccacggcc gnttaggcta acgaggaggg ctaaaatttc gacagggcta 180
ccccttgaag caaacctc 198

<210> 1306
<211> 318
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (285),(310)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1306
gtttgttaca cctcgttgca gaatttgaag gattctaaag gcagtttcgg catgacttgg 60
gaaaaagatg gcacatcgcc ttctcagcat ccaagcgata tcgaagcttg cggtacgcca 120
gatgcctcaa agtctaacaa cgatgcggcc acggaaggtc caacttctgc attcaagccg 180
ctcgcccttc tagatcgatt ccttgcagtc tggatcttcc tggctatggc tattggtatc 240
attcttggta actttgttcc caacaacgag caaaactcct ggaanaaggg aaaattcctt 300
tgtggtgtcn gtggctaa 318

<210> 1307
<211> 972
<212> DNA
<213> A.fumigatus

<400> 1307
gacggaggta tcgtgcgcag tatagtcgga ctagatgtct tcaagcggac gtacggctac 60
cagcatgaag gtgtatacat catcgccgcc cggtggctgt cagctttcaa ctacgccacg 120
ctcctcggcg ccatcatagg agctctcctg tcaggattgg cttacgatcg tttcggtcca 180
cgcgtgatga ttaccatttg ctcatgcctc tccatcggct tcatctttgt ccagttcttc 240
agccacacgc ccgcccaact gtttgtcggc gagctggtga acggctgcat catcgccttc 300
tacccgatct gcgcttccac gtacgtaagc gaggtcaccc cgctcgtgct gcgcgggttc 360
gtcgcgacaa tgaccaatct cgccttttcg atcggctcgc tgattgcgtc ggggatcctc 420
aagggtgcag cggccatgga caccacatgg tcgtacaaga tccccatcgc cgcacagtgg 480
gctctcccca cagtcatgct gctgctggtc gcattcgtcc ccgaaccacc gtactggctc 540
tgcaagcatg gccgggatga cgccgcgatc atctcattgc gtcgactgac aacggcacct 600
gcggccgagg tctacgtggc tcgcaaactg gcgcatattc gggagacatt acggctggag 660
gaaagcttcc agggcgaccg accgacgtat cgggaatgcc tacggggtcc gaatctccgc 720
cggctggtga tctgcgtgat ggcatacaat atgcaggcgt tcactgggaa cgtctttttc 780
atcaactacg cagtgcattt catggaggtg gcggggctgg acgcttcgca tgcgttctcg 840
atgaatattg gtctgacggc catcggactg ctcgggacgt gcctctcatg gtttctgctg 900
tcgtacatcg gtcgtcggac aatgtacctg ttcggctgtg tcttcaccac gcgccggcaa 960
ggaccagcag ta 972

<210> 1308
<211> 723
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (695)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1308
tctgagctgg ctcgatgcag ccaaagtatg gattcgtggc tcagcgccct gccgaaggat 60
gcgcaataca ttcccgcatc caaaaccaac tttgaggatg gagaagatgt tcttctcctt 120
catggcgcca tgctaagaat gctctatcat gcgaccataa gcgcgctcta caggccgtgg 180

gcttatagcc gggatccaga caaatcgcgc tttgaaatca cgcaaaatgc gcggtcgaag 240
atgcacgatg cggctttagg tatcacgcac attatacagg ggctcaatca attaaatctg 300
actcggttcc tccctcagtc tggtgtcact gtgatcatac cagcagccgt ggcgcacctg 360
tcaaatatca tgtccaacaa ccccgccgtc cgagaaacta gtcttcagca ctttcagaga 420
tgcatccagg tcctacgggg actgagggat ctctatcccg ccgcggacat ggaagtcgcc 480
aacattgagg cagcagtcaa agtgcagtcc gatagcgtta gcactttcct caagattatg 540
gaatacagca atgttagcat cgaccagctg caacccccag aaccgccatt acacaaacaa 600
agcattgatt caaacatgca tacggcttgt tcaccagagg gtagttcacc agatcggcga 660
gggtccttcg tgggagcaac ggatgcgcag cccanagagc accgtactgg gtccttacaa 720
acg 723

<210> 1309
<211> 264
<212> DNA
<213> A.fumigatus

<400> 1309
cgtgggcagc tcagggagcg cgaattccga gcctccctcc tcttctcccg cgtgcccttc 60
ctcctcccag tgcccctctt cgcccccgaa actgatttca ataaatccca catgcaccat 120
gtatccgacc agggcggcga cgccgcccgc tacagccgca atggagacaa gtatgtcttt 180
cttctgcccg gtggcgtact cggacaaggc gcggctctct atccccgaca accccgagtc 240
aggcgactgc gccgcctgtc gtaa 264

<210> 1310
<211> 543
<212> DNA
<213> A.fumigatus

<400> 1310
gagcgatgtc cttccagccc ggcaattgaa gacgctacgg cctctgcggg aagtcggaga 60
acggctccac gagcgaggtc gccgaagtcc tgggcgcgca tccggacgtg cacgaggcca 120
atgtctacgg cgtcgcattg ccgaaccacg acggccgtgc tggctgcgcc gccatcgtct 180
tccagcagca gttacaagcc gccaacccct ccgaactcgc tgcgccgtcc cagaacgtcc 240
tcgacagtct cgcagcccac gtcctcaaaa acctgccccg gttcgcggct cccctgttcc 300
tccgcgtcac gcccgagatg caagcgacag gcaacaacaa gcagcagaaa cacgtcctgc 360
gcaccgaggg cgtggaccct gcgctcgtca gcggcaagga taagctgtac tggctgcagg 420
ggaacaccta tgttccattc gagcagaagg actggaaccg gttgcattcc ggacaagtca 480
agctgtgatt ttatgattct tccattgtac ccctacttaa tggccattac tttcgtgcct 540
tga 543

<210> 1311
<211> 402
<212> DNA
<213> A.fumigatus

<400> 1311
agcgatgtcc ttccagcccg gcaattgaag acgctacggc ctctgcggga agtcggagaa 60
cggctccacg agcgaggtcg ccgaagtcct gggcgcgcat ccggacgtgc acgaggccaa 120
tgtctacggc gtcgcattgc cgaaccacga cggccgtgct ggctgcgccg ccatcgtctt 180
ccagcagcag ttacaagccg ccaacccctc cgaactcgct gcgccgtccc agaacgtcct 240
cgacagtctc gcagcccacg tcctcaaaaa cctgccccgg ttcgcggctc ccctgttcct 300
ccgcgtcacg cccgagatgc aagcgacagg caacaacaag cagcagaaac acgtcctgcg 360
caccgagggc gtggaccctg cgctcgtcag cggcaaggat aa 402

<210> 1312
<211> 459

<212> DNA
<213> A.fumigatus

<400> 1312
agacgctacg gcctctgcgg gaagtcggag aacggctcca cgagcgaggt cgccgaagtc 60
ctgggcgcgc atccggacgt gcacgaggcc aatgtctacg gcgtcgcatt gccgaaccac 120
gacggccgtg ctggctgcgc cgccatcgtc ttccagcagc agttacaagc cgccaacccc 180
tccgaactcg ctgcgccgtc ccagaacgtc ctcgacagtc tcgcagccca cgtcctcaaa 240
aacctgcccc ggttcgcggc tcccctgttc ctccgcgtca cgcccgagat gcaagcgaca 300
ggcaacaaca agcagcagaa acacgtcctg cgcaccgagg gcgtggaccc tgcgctcgtc 360
agcggcaagg ataagctgta ctggctgcag gggaacacct atgttccatt cgagcagaag 420
gactggaacc ggttgcattc cggacaagtc aagctgtga 459

<210> 1313
<211> 252
<212> DNA
<213> A.fumigatus

<400> 1313
ctgagcagtt ctatgagaac accggcgatg gtacttcgta ccatggatac tggcagcaga 60
atatgtgagt tctctttggc cgcggtgatt catactattc gacgaagcca cgaggtcaat 120
gccaattatg gaacggcaca agatcttaga tatctggcca acgctctgca cgcgcgtggc 180
atgtacttga tggtcgatgt ggtcgccaac catatggtac gccgtcttct cgagttgtac 240
attataatct ga 252

<210> 1314
<211> 246
<212> DNA
<213> A.fumigatus

<400> 1314
ctggttaagg gctacaacgg agcgggaaac tcggtcaact acggtgtctt cactccgttt 60
gattccgcta cctatttcca cccatactgt ctcatcaccg actacaacaa ccaaacagct 120
gtggatgact gctggctggg agacactact gtctcgctac ccgatctcga cacgaccagc 180
acggcagtgc gaagcatctg gtatgattgg gtgaagggat tggttgccaa ctactccagt 240
cagtga 246

<210> 1315
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1315
atgatactga ccgagatagt cgacggcctg cgcatcgaca cggtgaagca tgtcgagaaa 60
gacttctggc ccggctacaa tgacgctgct ggcgtctact gtgtcggtga agtcttttcg 120
ggtgatccac aatatacctg tccataccag aattacctgg atggtgtact caactacccc 180
atgtacgcat tatga 195

<210> 1316
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1316
tttccgtacg gatttgatcc tgacgagagc agatactatc aacttcttta cgcgttccaa 60
tcgaccagcg gcagcatcag caatctgtac aacatgatca gctccgttgc gtctgactgt 120

gcggatccca ctttgctcgg caactttatc gagaaccatg ataacccccg atttgcctcg 180
taa 183

<210> 1317
<211> 666
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (12)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1317
gtacctttta gncccgtggt gagcacatct gccatgagag agtccatcct ttcagtcctt 60
acgttcttct ccctcctgct cattgtccaa gcaagagatg atggccggat gaaatacaac 120
ttcaactccg ggtggaaagt actcgtgggc aatcccgcgt ctgcacagtc gccgtccttc 180
aacgacaacg attggaagga cgtaaccctc ccccatgcgt ggaacgaaga tgatgctttc 240
cgcgtggaca ttgccaaccc gtccaccgga attgcctggt accggaaaca ctttgacctg 300
ccagccacga gccggaataa gaaagtcttt ctcgagttcg aaggcatccg tcacgccggg 360
gagttctacc ttaatggcaa gtggatcggt cgcagcgaga acggggtcat ggcctttggc 420
tttgatgtca gcgatatcac gctctacaat cagaccaacg tcctggcggc tcaaatcgac 480
aatagctgga cgtacaggga gaaggccacc agcacgccgt accagtggaa cgacaagaat 540
ttctatgcca actacggcgg gatcaacaag aacgttttcc tgcatgttac agatcgactg 600
taccagactc taccgttgta ctccaatctg cagagcttca cggcacgggc cggaaggata 660
cgcgat 666

<210> 1318
<211> 333
<212> DNA
<213> A.fumigatus

<400> 1318
agacactttc cacatgctcc cgtgctgaca atttgtagtt acaccgaaga ccagatgcgc 60
gctgttcaga tagcccaccg agaagccaag aactggtccg actgggtggc gctcgggaca 120
gtccgagtgc tcagatgggg tatggacttc gtgaccgggt accgacaccc caagccgggc 180
caggaacacg acgccaaatt cagaatgacc gagcagaagt ggcttactcg atttattttc 240
ctcgagagcg tggctggcgt gccaggcatg gttggaggga tgctgaggca tctgcggagc 300
ttgagacgaa tgaagaggga caacggatgg tga 333

<210> 1319
<211> 402
<212> DNA
<213> A.fumigatus

<400> 1319
tcgagcttcc cgcagttcac gttgttgcta acaatagcca ggattgaaac tcttcttgag 60
gaggcataca atgagcgcat gcatttgctt accttcctca agcttgctga gccaggatgg 120
ttcatgcgac tcatggttct cggagcccaa ggcgtcttct tcaatgggtt cttcctttca 180
tacctgattt ccccacgcac ctgccaccgg ttcgttggct accttgaaga agaacccgtc 240
atcacctaca ctccggccat ccaagatatt gagacaggaa agctgcccga ttgggtaaaa 300
attgggtgcc ccccaatatt ccccgtccca ttctgggaaa tatgcccaag ggggctccgc 360
aagaagaaaa caacttttgg ctggttacct gcgggggctg aa 402

<210> 1320
<211> 255

<212> DNA
<213> A.fumigatus

<400> 1320
agacggacag ctgagagtat agtccgtatc gatcgagaga atctcgaagc tgcgaatttt 60
tcctctgggc tgagtctcac tatgttgaac ggccaaccca tgactgggga gtcttacacg 120
tcgtggggga tgacgcaaga agaattggat catccctggt gggggaatcc gcaagttatc 180
aatcctgcca agcccctggc ccaaacggga aaaatgggta aaccccgttc caaaaccgct 240
aagacattgg ggtga 255

<210> 1321
<211> 360
<212> DNA
<213> A.fumigatus

<400> 1321
aatttcctcg agttttaccc atgttctctg aatgatctaa cactaataga ttatcttcat 60
gtgacaaaac gttttggcat agtagctgtg gcgcaactac ccactcattt tgtccttgca 120
attaaatctc gatacaaccc tttagcactg ctcttcaaca cttcgtatga gagactgcta 180
ccatggcacc gaatatccgg cagactgata ttccttctga tcgttgtcca tgcgactttg 240
tacctaaact actttatcca gacggcaacg ctgcaagagc atctcgcctc tctcaagatc 300
atccttggca ttgcatcatt catgtccctt ttcgccatga tgagcaccag catcgaaggg 360

<210> 1322
<211> 342
<212> DNA
<213> A.fumigatus

<400> 1322
gagccgcagt ctcaatccga gacactcaat gacaacgcca acgaaaatca cggccaaagc 60
accacaaaca aagacgggag caagaagaga aagaagcttc ctgctgtgat ggaacgcgac 120
gaaggcggcg atgtcgagtc tcacacaacc gccagaacac ccaccaaatc catccagact 180
ccaaccaagc catccagtgt cggaactccc gtcccctcta gtgcgaagaa ctcgatcgga 240
gcaaagaccc caactagcgc cataacccgt ccatcccatg acgagatgca tccgagcaag 300
cttcaccaga gtattcgaca cgccgctggc aagacaaacg ta 342

<210> 1323
<211> 270
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (36),(42),(61),(144)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1323
tgccgcggcc aaatttactt aaggtatata gcttgntgcg cntataatcc ccccaccatt 60
ntacgccagg aaacaaccgc caacgcgatt cacaaaatat accgaaaccc ggtaatcccg 120
ctcgcaatcc caccatgcaa gccntgcacc gcctccctct cctccctctc tagcctttta 180
ttctccctta ccaggacgaa ccttaaccaa gtccccagca ccgccgcccc agcctgcaac 240
ccgatacaaa tccccagcgc aagccgataa 270

<210> 1324
<211> 600
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (546)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1324
gacggctcct tcggcttcac caacttcttc cccaccctca cctcctccct cggctacagc 60
cacaccatct cgctcctcct cgccgctccg cccttcatct tcatgaccct ctacagcttc 120
ctccacagcc tcctcagcga ccgcctccaa tcccgcttct ggttcttcat ctaccccatc 180
cccatcgcca tcgccggcct cctccttttc atgaccaccg actcgctagc agcgaaatac 240
gtcgctacct tcctcatgat gttctgcgtc tgcatgaacg ggacaacact aagctgggcc 300
gccagttcca tgccccgccc ccctgcgaaa cgcgccgtcg cgtatgcttt catgaatggc 360
gtgggtaata caaccggtat ctggacaccg ttcacctatc gggaccagga ctggccgtat 420
tatcggcttg cgctggggat ttgtatcggg ttgcaggctg gggcggcggt gctggggact 480
tggttaaggt tcgtcctggt aagggagaat aaaaggctag agagggagga gagggaggcg 540
gtgcanggct tgcatggtgg gattgcgagc gggattaccg ggtttcggta tattttgtga 600

<210> 1325
<211> 642
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (618)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1325
tcccccatgg ttattcgcgt gtcggtcgcc tcccgaggtg aagacggaag cactgtcaaa 60
cgggtggtac tgacatcctc gtttgcctcc gtcattgaca tttccaagaa tcccggacct 120
gatttcacct acaccggcgc ccactggaac ccaatcactt acgaagaaag cgtcgaccct 180
gccaccagcg cggtagtagc ataccgaggc tcaaagaagt tcgcagagct cgaagcctgg 240
aacttcatgg acagagaggg gcctcctttg gacctcgtca cgctctgtcc tccaatggtg 300
ttcgggccga ttgtacatcc cgtggctagc attgcgcagc tgaatgagtc caatgctgtt 360
ttgtggagcg ttgcagccgg cgctgatccg ttacctgccg cgagagtatc tgcctggatt 420
gacgtgagag atctcgctga agcgcacgtt caggcgttat tgacaccgga agccggtggg 480
aagagatatg tccctgcgtc cggggagcca ttttgttacg aatatgcggc tgatatcatc 540
aaggagaagt tcctgtgggc gcgggaaaca gtgaccacaa actatgaggc tgggaaaaag 600
gccgggccga catacaanct ggacggggcg cacagtgact aa 642

<210> 1326
<211> 411
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1326
gcgtttcacg gtcntaacaa acccaatcag atcatcgccg tcgcagccct gctggtcgcc 60
cctgtccttg ccgcccctac tgaattcgac acccgcgcct gcgactacac ctgcggcagc 120
aactgctaca gcgcgagcgc cgtgagagcc gcccaggaag ccggttatga gctctactcc 180

tccgacgaga ccgtgggcag caacaactac ccccacaagt acaacaacta cgagggcttc 240
gacttccctg tctcgagtcc ctactatgag tggcctatcc tgagctccgg aaagatctac 300
agcggtggtt cccctggtgc ggaccgtgtc gtcttcaata gcaaggatga gctggctggt 360
cttattacac ataccggggc cagtggaaac aactttgtcg cttgcactta g 411

<210> 1327
<211> 1242
<212> DNA
<213> A.fumigatus

<400> 1327
tggctagagt atagggtagg agaattggca aggtacccgg tccattgggt tcccccaaag 60
ccagtcaatt caggatggtc ggggagcatg ggggaaattg ggtgggggga tactggatta 120
gcagaggccg ccaattggga cattttcaca gaatttgaat gggggggggga gtccacgtta 180
tggcgtgcaa tcacatccaa gtttggaggg ggaaagtcgg acgagcagaa gccgtcgtcc 240
agtctccaag tagaagtcag cacgagaatg cgcgcctcga cccttggtat tcagctccag 300
gaggggctcg tgatcgacaa ccagttgctt tcagcacccg acgtcccggc taagagaatg 360
attcgattca agctgccttc ggatatgagc taccgatgcg gggattactt ggctgtgttg 420
cctgtaaacc cgagcagcgt cgttcgccgg gccattcggc gtttcgatct tccctgggat 480
gccatgctca caatccgcaa accgagccag gcccccaaag gctccacatc gattcccctt 540
gacacgccca tctcggcttt tgaactcctc tccacctatg tggaactctc gcagccggcc 600
tctaaacgcg acctgaccgc actggcagac gccgccatca ccgacgccga cgcgcaagct 660
gagctacgct atctggcatc cagccccacc cgattcaccg aggaaatcgt caagaaacgg 720
atgagtccgt tggatttgct gatccggtac ccttcaatca agctgcctgt tggcgatttc 780
ctggccatgc tcccacccat gcgggtgcgt caatactcca tctcttcttc tcccctggcg 840
gatccctcag aatgctcgat tacgttttct gtgctcaatg cgccggctct ggcggcggca 900
tcgttgccac cggccgagcg agcggaagct gagcagtaca tgggagtcgc ctccacctat 960
ttgtccgagc tgaagccggg cgagcgtgcc cacatcgccg tgcggccgtc tcattccggc 1020
ttcaagccgc cgatggatct gaaggcgcca atgattatgg cgtgcgcggg aagcggactt 1080
gcgcccttcc gcgggtgtat catggaccgc gccgagaaga tccggggcag acgcatctcg 1140
gtcggagctg atggccagct tcccgatgtt gaacagcccg ccaaagctat cctgtacgtg 1200
ggctgccgga acaagggcaa ggatgacatc cacgccactt ga 1242

<210> 1328
<211> 288
<212> DNA
<213> A.fumigatus

<400> 1328
ataccaaggg tcgaggcgcg cattctcgtg ctgacttcta cttggagact ggacgacggc 60
ttctgctcgt ccgactttcc ccctccaaac ttggatgtga ttgcacgcca taacgtggac 120
tccccccccc attcaaattc tgtgaaaatg tcccaattgg cggcctctgc taatccagta 180
tccccccacc caatttcccc catgctcccc gaccatcctg aattgactgg ctttgggggа 240
acccaatgga ccgggtacct tgccaattct cctaccctat actctagc 288

<210> 1329
<211> 510
<212> DNA
<213> A.fumigatus

<400> 1329
gaggctcttc cgtgtgcccc ggcgtgtaca ctcgatgatg atctcgacga cataccaaaa 60
tacgatgaaa cccacccgtc ccttgactcc tccatcaagg atgtggaagg caagcctgct 120
actgacgact cccaggcctc tcagctattc aaggaaaact ccgagcaccg aaagcgcgag 180
tcccaagggt ccaacgatag ccaggcaact cccgtgcccc acgaaagatc caaggaggtg 240
gtagatggac cccataacac tgacgaccaa gagctcgctg gtccgaagat ggcagcaatc 300

acagaatccc tacgacgccc agtgaccccg gatatgaatg agccggcctc tggtccatgt 360
accccggact cagtgatccg tcacccgatt gatgaagagg atgacgactc gcagacctct 420
tccgacgaaa gtgtaccgga acccgttgct actgtcaagg cccccaacgg acttaaaaca 480
cgcccttctc ttacaccggc ggatgtatag 510

<210> 1330
<211> 333
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (164)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1330
ggtcggatca ctagctgtgt ttcactgcca gatattatga tcaagccatt tttcccccaa 60
gtacccggat ccctttttcg caccgtcaca gttctcataa ccccgacaat cacacactgt 120
agcctggcta ccgttattgt tcttggtgta cgtgtgcggc ttgnacagtc acttccgccc 180
aggttccgtg tggacgtgcg aatcaaggag ggaacgcata gtaccgccga tgaggttaat 240
aagcaactgg gtgataagga aagagtggca gctgcactcg aaaatggaac attgatgggc 300
gttatcgcca agatgctgga aacatgccaa taa 333

<210> 1331
<211> 351
<212> DNA
<213> A.fumigatus

<400> 1331
aggggccatg ttctgtcaga cgggccaatt gccgggacac cgctgtatac ggtgcaaggc 60
ttgattcccg ttattgactc tttcgggttc gaaacggatc tcagaattca tactcaaggt 120
caagctgcgg tcagtcttgt gttcgatcga tggagcgtcg ttccaggcga tccgctagat 180
cgcgaagtca agacaaagcc actcgagatg gcgcccgcga tggccacagc gagggatttt 240
gtattgaaaa caaggagacg gaaaggtttg gcagaagatg tgacagtgag taaatttctg 300
gaaccggagc tctggagagg cctgaaggaa agtggcgtct tggattcatg a 351

<210> 1332
<211> 564
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (513)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1332
gacgcggatc ttccaccccg tggtgaagac aggtccaaag acgctagcac gttcatcttc 60
aaaccggagg attttgtcac cgtcagcgta cggtttaccc gcgtcggtta tgcacagctc 120
aagagccaag attttccggc acctaagtcc tggattggaa agcttcctcc aaggaatgac 180
cgaattgcat ttgaccgggc ggaagtaggg atgaaacttt cgtgtggctt tgaaatgctc 240
ctcaccgatc ctcagaacca agacaaggcc tctgtgagag aaatgaagct tctattggaa 300
gatgtggatt ctggagatga gagattaccg acggatgaag agatctccag atgggataag 360
agacaggatg atgaaaaatg gctagacatc agttttgagg atctcgaccg agagctgaag 420
ggcaaggaca agagcaaagc cagcgacgga caggccaggg gcgcatttgg ggatgccacc 480
gcgcaagaaa atcttcaacg catcgtggct canttcgaga aattcttgaa tgatgattct 540

gctggattcg aaagcgccga tttc 564

<210> 1333
<211> 384
<212> DNA
<213> A.fumigatus

<400> 1333
gtacaaagac ccccaatgaa cgattgcgct tgtttgctaa cccacttcag tgacatcggc 60
ggtggtggct atggtcagaa catcggatac ggtgtttcgg ctgacgagat cggagtcatg 120
atcaccaatc tgatgtacaa cgatgagttc ggctactatg atggtctgta cggccaggcc 180
aaccctgaca tgacttattt cgagaagtgg ggccatttct cgcagatcgt gtggaagagc 240
tctgtctctg tcggctgcgc tactgtcgtt tgcaattccc tcggcaacgt ggactcgagt 300
cagccatcgc ccttcaccgt ctgcaactac taccctcctg gtaagtgtga tcaatcttta 360
tcccttgaag tatgccggtt ctga 384

<210> 1334
<211> 213
<212> DNA
<213> A.fumigatus

<400> 1334
gatcatatag tgcaatggca tccgactgtc ctcgcgagaa tggcgcttgt tcctcaacga 60
agcattaatg cttacagcaa agattccact gctgcttcgg ccgacggcac ttacaaggac 120
ggagacttgg ttattcggtt ctttggatgc gattccgatc ctaagcgcac ttgtgcgcat 180
tcttcaccac ggcctaccaa tccgatccat ccc 213

<210> 1335
<211> 459
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (3)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1335
tcncgagtgc gtgtccttcc aggccccgtg ggtgaagaag caatggcatc gcaccctcat 60
tcaacttatt tctttcatct cgatgctcat accttgatca tgaaccctag caaatcgtta 120
gagtctcata tccttgacaa gaatcgcctt caatcgctga tgctcaagga cgttcccgtt 180
gtgccgccgg acagcattat caagactttc tcgcacctga agccagagga tgtcgacctt 240
ataatcagca cggataacga ggacttgaac cccggaagct ttgtgcttcg acagggcgac 300
tttgcgcgat tcttccttga tatgtggttc gatcctctgt atcggaagta taactttcag 360
aaagcggaga tgcacgcttt ggtatgtttc catcctcgct ttctaatggc cggcgatgat 420
cgtactaaca gctacccgtc ttttactagg atcatatag 459

<210> 1336
<211> 423
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (52)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1336
accatcgccc atctctcagc aaactcccat aaagtacacg tcgacggcct antctcaacc 60
cctctcagcc tatctatcca gcagctcgca agcgaattcc cccagcatga agtcatctgc 120
gctctggaat gcgctggcaa ccgacggcac acgatgcgca cgatgctgaa ggaagtgcag 180
ggtatcgatt ggggggatgc agcagtgatg aattgcaaat ggcgggggcc gagattgcgg 240
gatgtgctgc tgcgcgcggg ggttaaagcg agtcaagaag gcctgcatgt ggagttttcg 300
tgctatcaag tgaagtgtca ggaggatggg tggtttgggg cgagtgtgcc gctggaaagg 360
tgtctggggg aggatgggga tgcggttctt gcgttgcagg tgcccttgtc tcgttcgctt 420
tag 423

<210> 1337
<211> 402
<212> DNA
<213> A.fumigatus

<400> 1337
atgaatgacg ctccgctccc cgtgaaccac ggatatcctg ttcgtactat cctgcctggc 60
attgtcggcg cgaggtgggt caagtggctg gatcgcatca cggtctcaga ccatgagtcg 120
cccaatttct accaacagca tgattacaag gtcctgccgc cagcggcggt cgatcaagag 180
tcagcgcagc cgttctgggc gcagacgccc cccatgtctg atatgccgat caactctgtt 240
gtcgcggttc cagaagataa tgagacggtt gcgttgtcga gttctggggt catggaggtg 300
acggggtatg ctgttccgca tggtgcggac ggaccggtta cccgtgtgca ggtgtcggtg 360
gatggatatt caacccgggc ctggaaggta ccgcgattgc gc 402

<210> 1338
<211> 375
<212> DNA
<213> A.fumigatus

<400> 1338
atgtgtaatc tggaaaggca tgttgatcat gaacaagcat gcttcattca cccgattgta 60
ccgtcgatgc tgaccgcacc agggaaagga atcgtcatgt tcacaggctg cagccatgtt 120
ggagtggtca acgcggccaa gcatgcaatt gaatgcatgg atggatctga tcctcttcat 180
gcggttgtgg gaggcttcca tctggcgact agtgaggagc agcagatgga gagcacgatc 240
aaagacctga agaagcttga cccggctgtg cttctcccgg gtcactgcac gggttggcgg 300
gccaaattcg ccatcgagag gcttatgcct gggactctgg tgccttgtac agtgggtatc 360
aaggttacat tctga 375

<210> 1339
<211> 270
<212> DNA
<213> A.fumigatus

<400> 1339
ctaactttga taacggagat agtcatcgtt aaggcgtcat ccggtccccg atatgttgtc 60
ggctgccgct ccaaggtcga taaatcgaaa ctgaaacagg gcactcgtgt tgcccttgac 120
atgacaacac ttaccatcat gcgcatgctt ccgcgtgaag ttgatccgct ggtatacaac 180
atgtcgttgg aggaccctgg tcagatcagc ttcgcgggta tcggtggtct gaacgagtct 240
tcaccacggg gctggaaggg accgcgcaat 270

<210> 1340
<211> 285
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1340
tntacgcaac atccgtttga agccctaccc gccggcttcg cttttccaac gatgaacggc 60
ggaagcgacc ctgagagaga gcaggcgctc gaagattaca agaagagctt acttgagctt 120
cgagaatggg aagctaagct taagaacctg cgtatgggta tcaaggacct gcagagagag 180
ttcgatatct ctgaagagaa catcaaggcc ttgcagagtg tcggtcagat cattggcgaa 240
gtgctgaaac aactggatga ggagcgatgt atgccatttt cataa 285

<210> 1341
<211> 399
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (41)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1341
gggtacaata gcggaaaccc taagcgcgca cagctgcgaa nacctcaccg tctttttctt 60
gcgccgagtt cgatcctgaa gcaacctcct gtcctcacca acgccgtcaa ttcgacctcg 120
aggtatgttc tgcttgctgt cttctattta tctacagccc cccagctagt ctgggagagc 180
aatcactgtc tcgtttttgg ctttcttgtc tccattggcc gaaatggcga ccgagaacaa 240
agcagtcaaa agaagcaggg tgatacgctt ctctcatcac gacacgggct taagaacccc 300
tgggggcac tctttgcgct cgaagactac tggtggctga ctggttttct ctcttccgga 360
agcaaaaatt tctccagctg ggtggatccc ttgcggtga 399

<210> 1342
<211> 861
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (475),(659)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1342
agaagcgggg gcacactcca gcaattgctg atcgatccca tgtacagata ccatacacaa 60
tcacccgaag cgcttttcgc tcatgttccc ggtgtccaag tggtcatgcc tcggtctccg 120
tcacaagcaa agggcctcct cctcagcgcg attttccaga gcaacaaccc tgtcatcttc 180
atggagccca agatcctgta ccgagcagcg gttgagcacg ttccaaatga attctacaca 240
ttacctctta acaaagcgga agtggtcaaa ccaggaaatg acgtgacggt cgtctcgtac 300
ggtcaaccaa tgtatctctg ctcagaagcc atcagagcta ttgaaaagga catgggcgcc 360
agcgttgaac tcattgatct ccgaacaata tacccttggg accgacaaac tgtcctagac 420
agcgtcaaga agaccggacg tgctatcgta gtccacgaga aaggtttaaa ttggnaatat 480
ttcccccaaa aaaaaaaccc cctttttaaaa acccccccggg gggggccccg gggtttttcc 540
cgggggggtt tggggccccct ttttgggaaa aaaaggggtt ttttggggcc ctttgggggcc 600
cctttttaaac ccccccaaat ttttcccccc ccaaaaaggg ggaaaaattt gggggggggnc 660
ccccgggccc cccccccctt tttttttccc tttttttttgg ggggccccgg gggccccccc 720
ccctttttgg gggggggaaa aaggggggggg gggccccttt ttttttcccc cccccaaaaa 780
aggggttttt gtgggggggaa aaaaaaaaaa aaaggagccc cccccgcggg gaaaaaaagg 840

ggggtttttt tgggggggg g 861

<210> 1343
<211> 558
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (202),(386)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1343
ccccccccca aaaaaacccc cctttttttc cccgcggggg gggctccttt ttttttttt 60
ttccccccac aaaaacccct tttttggggg ggggaaaaaa aaaggggccc ccccccccct 120
tttccccccc ccaaaaaggg gggggggccc ccggggcccc ccaaaaaaaa gggaaaaaaa 180
aagggggggg gggcccgggg gncccccccc aaatttttcc ccctttttgg gggggaaaaa 240
atttgggggg gtttaaaagg ggccccaaag ggccccaaaa aaccccttt tttcccaaaa 300
aggggcccca aacccccccg ggaaaaaccc cggggccccc cccgggggggt ttttaaaagg 360
gggttttttt tttgggggaa atattnccaa tttaaacctt tctcgtggac tacgatagca 420
cgtccggtct tcttgacgct gtctaggaca gtttgtcggt cccaagggta tattgttcgg 480
agatcaatga gttcaacgct ggcgcccatg tccttttcaa tagctctgat ggcttctgag 540
cagagataca ttggttga 558

<210> 1344
<211> 579
<212> DNA
<213> A.fumigatus

<400> 1344
agaataccac ggcactcaag ccaaggccca gcttgtccgc aatccccaga acactgttgc 60
atacttcaga gactatgttg gcaagaagta attagtcctg gacctggatt tcgctattcg 120
gagaacagac atgctgattt tgctttacac agcttcaagt cgatagatcc cactccctgc 180
catcagtcag cgcaccctca gcaagttgac tccactgttg ccttcaccat ccgggatacc 240
gccagcgaga cccccaacac cgtcaccgtc tctgagatca caactcgcca tctccgccgt 300
ttgaagcaat ctgcctccga ctacctcggt aaggacgtca acgctgccgt catcaccgtt 360
cccaccgact tcaccgacgt tcagcgcgaa gctcttatcg ctgccgctgg cgccgctggc 420
cttgaggtgc tccagctcat ccacgagccg gttgctgccg tcctggctta cgatgccaga 480
cccgaggcta ccgttactga caagcttgtt gtggtcgctg attttggtgg tacccgttcc 540
gatgccgctg ttattgcttg ccgcggtggc ttgtacata 579

<210> 1345
<211> 549
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (50),(105)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1345
ggccagctga ttctccggaa gctggcagag cttttcgcag aggctgcaan tagtacgcag 60
gtcgaagacg gacttgcccc tacaatagtg aatgaagacg aggantgcac agtgcgccag 120
tccctgttgt atttctcaga tgtggccttt tttattcaaa cacaaccaaa tttcagaagt 180
tctggcgaag gcatcaccca aactgaatct tccgcaactt cttcctcttt ccttcagcgc 240

cagaatagtc gtccactctc actctcttca tccatacttc aatatcacac tttgcccaat 300
agcctcgacg aggtttcccc tcgatcttct ttctcagata catcttccga tttaactatc 360
actccacttc gaatccagaa aaaagcctgg atgccacctg gaccaggttc tgcgtcaaag 420
gatccctttg ttgattcttc gactgggggc aaccacaccg caggcaacct tgataacatg 480
tctcagtttc aagtctctga aggtacagct ctgctgtttc tagttcaaaa ttcctatgct 540
ctgcaatga 549

<210> 1346
<211> 744
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (728)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1346
ctccgaggtg aagacggatc gattgtgtcc tttagccaga cgggcgagta cggcgccagt 60
gggatggata ccactggata tctgtatgtt ccccgggcat gccagccagg gtcttcgacc 120
gtctgcaaac tccatgtggc cttgcatggc tgcaagcaga gctacagcat gattggaagc 180
aaattcgtgt cgaataccgg gtacaatatg tgggcggata ccaacgacat tatcattctc 240
tacccgcaag ctgttgcgga taacacgatg cacaccatct ggactgggat gccgctgccc 300
aatccgaatg gttgctggga ttgggttggt tggtatggcg caaatgctga tcaggtcgga 360
ggtgagtcaa agagttggtt gagggccata ctttttttct ttttcttttt ttttctcttt 420
tttccctttt tttttactga ctcgaatgct ttaggcgtgc aaatggctgc gattgtgaac 480
caagttgccc gggttgtcag cggctacggg gccggcagca gttcttcaac gactgctgcg 540
accccgacga ccaccactgg ctctataaca acaacaacta ctactactgc tacagtaacg 600
acgaccgctg ttgccccgtt gtatggacag tgcggtggaa tcgggtggac ggggccgacg 660
gcttgtgcca ccggtgtttg caccgcctat aacccccttaa tatgcacaat gtctcttgga 720
tattgtangg acttggaacc ttga 744

<210> 1347
<211> 504
<212> DNA
<213> A.fumigatus

<400> 1347
tatacttatt ggataatttc tctcaatcag ccaagctcat attttgcaag atataagaaa 60
gcctatgaat cgatgaaggc ttgtccgctc gtcttccagc atccatccga ggcgcaacag 120
ctgaatggac ttgggccgaa gctatgtgag cgattgacgg agaaactgaa ggcgtactgt 180
gaagaaaacg gactaccgat gcccgaacac cctcagaagg gagcagctag caaaagaaca 240
tccgacgagg gtgttgatga tcctccagcg aagaaaccac ggaaagcaaa gccatatgtg 300
ccgtctctgc gatccggtcc ctacgcgcta ctcttaggtc tagcaacact ggatgagaat 360
gcatcccaag gcttgacgaa agctcagttg atcgagaagg ctcagccata ttgcgatagt 420
tctttcacag cccctcctga cccttccaaa ttctacaccg cctggaattc gatgaagacg 480
cttgtatttg acaacagcgg ccga 504

<210> 1348
<211> 657
<212> DNA
<213> A.fumigatus

<400> 1348
gtcctcggca gtgccgttga agctatgggc cctgcggcgg tactggaaat ccttcctttg 60
aatatcattc agcagaagaa tggccaaccg ggtcgcgtct ggtttcttcc gattcttaga 120

gacagcgtta ccaacaccaa tctcgctcac ttccgctctg agcttgttcc tctgagcgaa 180
gcattgtacc aaaaggtcgt cgactatggt tctgcggaga agaccgttga gaagaagata 240
ttcgagacgc tcgtgcagca gacctgggcc atccttcctg gctactgcga gcttcctcta 300
gatttggttg aggctttcga tcagagtttt gcagaactct tgtctaacgt tctctataaa 360
caaaccgagc tgcgtgttga catatgcaat gccttgcaga ccctagtcga gtcgaatcaa 420
gctattttgt ccattgagtc agaggaggac gatctgattc tccagaggag gatcacaaaa 480
gcggctgcga agaagaacat ttcccacttg gctggttttg ctagcaattt actcgcggtg 540
ctgttcaacg tctacagcca gacactcccg cattacagag gctacattct gcagtgtatc 600
aatgcttatt tgagcattac ccccgaaaag gttagtcatt ctctatatca aatctga 657

<210> 1349
<211> 591
<212> DNA
<213> A.fumigatus

<400> 1349
tgtgggatag ttgcgccttt cgtcctctcc gatcaacccg ctggcacgag cgctttccct 60
cgcggtcact acctcatccc tgatacaaac gcactgctga atggtatgga tctctttgaa 120
catactggag ctttctacga cgttatcatt cttcagacgg tcctcgagga actcaagaac 180
cagtcgctgc cactctacaa ccgcctactt tctttaatca agacggacga aaaacggttt 240
tacctattct tcaatgagtt cagattggaa acgcacgtga gacgaggtca gaatgagtcc 300
atcaatgacc gaaatgaccg agcagtacgg gcagtggcaa aatggtactc tgagcacctt 360
cgcagcacgc taaagagggg caagaaggag aagtcggtac cagcaattgt cgtcattacg 420
gatgataagg aaaatcttcg caaagcaaag gaagaaggtg tgacagcgct gtcgctgtcc 480
gactacgtct ccggattaga ggatgccgac cggttacttg acatgatcag cgaggcgagg 540
gaagctaggg tcttcaccac ggggctggaa ggatccgcgg tggcgctatg a 591

<210> 1350
<211> 279
<212> DNA
<213> A.fumigatus

<400> 1350
cttttcccag ccctgatcgg tgtcgacgac ctcctcaaca agcaatgcca gcagaacgtt 60
gcttgctgcc aggacaacaa gtctgttgct gtaagttcct tcagttcttc cctagttggc 120
acacttctca cgatattaga ctggcggcct catcaacatt gccacgccag cctgcgttgc 180
tctcgactct atcatctaag ccagttgcga gtgccgtttt cccagaccct tgttcgatat 240
cttcgggatc aacggttgca tatagcactc ggtgtatag 279

<210> 1351
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (89)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1351
ggaggggga tgaacatgaa aggttcggga cataccagta aatgtactct cccattattt 60
ggaggtatac gatgcccaaa tcatttagnt tcctttcgct ccagaaatac cgttctcgct 120
tacttagctt gggatctttt cgtgcgcgtc gagaggtttg gaaccattcg tgcttggatg 180
aatactagtc agtacgccat tattagctta tcatccatca tggactcacc tcagttgcag 240
tgtgattga 249

<210> 1352
<211> 411
<212> DNA
<213> A.fumigatus

<400> 1352
aagctgactg gcaaacaaag ccgcggaaaa gataccacct ctcaccagat atgcactgat 60
tttggaattt gtaacgttcg tgcatcgctc cgtcttgtag catggaagcg caagcgcaga 120
gaagacgtct cctttatgtc tagctcagaa tttcatccga tcaacacaga cagggcgcag 180
agccctgatg catcaacaga atgtcacgag tcagacagtc tcgacaagct gcgttggtgg 240
cagaaagcaa ccatttatca ggtattaatt cagagctttc aagacactga tggagatggc 300
aaaggggacc ttcgcggaat agttaatcgc ctcgactatt tcgtcgcgct tggtattgac 360
gtgatctgga tttcacctat ttatgaatca ccaatgcgag acatggggta a 411

<210> 1353
<211> 309
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (96)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1353
tattcatcca agcacgaatg gttccaaacc tctcgacgcg cacgaaaaga tcccaagcta 60
agtaagcgag aacggtattt ctggagcgaa aggaanctaa atgatttggg catcgtatac 120
ctccaaataa tgggagagta catttactgg tatgtcccga acctttcatg ttcatccccc 180
ctccttaaac ctccctatgt ctggcgcacg gttctcgttt ggaaattggg acaacctggc 240
cggcgaattt ctttggcgta ttccgccatc cctatggcga atctgggggc tgacggagga 300
atcctaacc 309

<210> 1354
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1354
tctgcggtga tggatctgat ggtttcgatt tacgatacgt atctggcacc gcagaaggcg 60
gccggggtcg tgtctaacgg gcatctcgcg tatgatgcga cggtgcagaa gcaggtggag 120
cctatgatgg aaatggtgcg cgatcagagg gagaaactgg cgagggaggt cgagaggtgg 180
tgcaaggagc ggggtgtcta g 201

<210> 1355
<211> 210
<212> DNA
<213> A.fumigatus

<400> 1355
ggctgcagcc gcggcagtct tgtgtatacg cccggcaaat ggatgattga acctactttg 60
ccgctcatta gaaaggatct gcaggatgat ttcattggat tccgcgatgg aattcttact 120
cacgttgacc gcatgaccaa ttcagacaag ggctggctga aaggttggca agatgatagc 180
ccgatgttcg aaatcctttg ttcatcgtag 210

<210> 1356
<211> 282

<212> DNA
<213> A.fumigatus

<400> 1356
gaagttctct tccccttctc agacactccc atgtctacga atactaacac cgacaccgct 60
ggccatacag ccaagcgtga agaatcacga ctccgtgcag ccaaggcatg cagacgatgc 120
agccagcgca aaatcaaaag cgatgcagta cagaatggac taccatgtag tcgatgtcgg 180
atggacaata cagatgattg cacgctgact ctgtcacgaa gaggcaccta ttatagaaaa 240
ggtggcgcgc gacctgcaat tgtcatctgc cggagtccgt ga 282

<210> 1357
<211> 786
<212> DNA
<213> A.fumigatus

<400> 1357
cattttgaga aaaagtgcat ctgtagtcag gccatatctg gagatatgct cagtatagag 60
cttctgttgt ccatggccac acgcttcgtc tttcacctca aaggcaacgt ctaccccgag 120
gatatagagg gcgttactct ggatgcaaaa ttgcacgtca ggaacctttt ttggatctgt 180
ttcaccctcg acaagatgtt cagcttgcgc acaggacttc aacccttttat cgacgtgacg 240
aattgcgatc taaggcttcc tcgaatgcag acggtaactg gccccctgga aggcttgcag 300
cctttctatc gccaatacaa ccacactatg tttctcgctc tcattcgcct gtctttggtc 360
cagtcgaagg tctaccatgg cctctactct ttctccgccc aacgccaaag cgatgcggat 420
ctcctagcta ccatccgcag cctggacatt gccttggagg agtggcggtc ctcagtgccc 480
acgtcctggg gcctacctac accgcacgaa aatcgcatgg ccggtctcct ctttgaaatg 540
cagtaccact acaccatggc tgccatccat cagacaagca gccggtgcac tgcctgggtc 600
cggaaccagg acacccgcgc ggcgggctcg agccttgccc tcagcgtagc agcccgtcgg 660
tctttgttac gaaaagttct ggagaccgat ccacaaatcg agggacaatt ttctcttgta 720
ggcgaccagt catatgtttg gagcaatgtt tctcttgagc taataacctt ggaaggtttt 780
ggttaa 786

<210> 1358
<211> 546
<212> DNA
<213> A.fumigatus

<400> 1358
agaccggccg acctgattga atcgccaacc tttggtcgcg tcctgcaagg cctcaacgat 60
gaatgttttg acttactgat gcaaaattgc atccaggagg cattccagtc gtcaccacaa 120
gcgtctgaaa gcgtgccgca atcattcacc tcggttgcca cagttgtccc acaggtgaag 180
acagcggatg tcaagacgaa gctcgcgaat gtccttgctg tgatggcgcg gcaggcgcat 240
gttattggca acggcacaaa tccgcccaac atctatcttt ccgccatgga ccagaacgtt 300
cggaatctgg aggccttcgc agccgtcatt tacagctcga actttgactt ccagctgcca 360
ggcgcggagc agaaagagga acaagtcact gccgagagag atcactctga tacgtcttcc 420
acggccccag taatggtgga caaggatgat acccaagatc ttaaccaagc tagtccaagt 480
gcagtggctg agaacaactc ggctttcgag aaggcatggg gaaaggcagt ggagtcgagc 540
gagtga 546

<210> 1359
<211> 297
<212> DNA
<213> A.fumigatus

<400> 1359
tccggcgcgt ctaaatggac aaccgcgcag cgcagggcgt ttgccaacga cctgaccaac 60
ccgcagctga tcgcggtgac ggataacgtc aaccaggcca agggcgatga tggacccgag 120

gcgtggaagc ctcctcttag taagttttct ttctctccgg cggacaatga tgctaacggg 180
ctagcttcat attattgcac gtatgcaaag atgtgggtga gggtcaagta tgtgtatgat 240
ttgaccatta cctcggcgga gaagaatgcg ctggtgagca tgttggatac ttgctag 297

<210> 1360
<211> 567
<212> DNA
<213> A.fumigatus

<400> 1360
ccgagtatta ctccagtgat gactctaggc tacatattcc gcttgatttc cgcccggagt 60
cctgacagcc tagtacccta cataggccag tcgatgttca ttatcctacc tccgtccctc 120
tacgcagcga caatttacat gacttacggc cgcattgtcg tctacgttgg caagcctcat 180
ttgtccatca tatcacctcg aaaggtgacc aaagtcttcg tactcggcga cgtaagcgcc 240
ttcctcctgc agttaggggg cggtggcatg cagaccatag acagtatgcg aaacattgga 300
cagaaggttc ttgttgtcgg attatttgtc cagctgatat ttttcggctt ctttttgtac 360
gtctcggtca gtttccagat tcgactgcgc cgctcaggat ttgacttgat cgggggggtta 420
tggcggagac tgcttcaaat tttattcctc gcctctgcgc ttgatattgc gcgctgcgtg 480
tttcgcatca ttggatatgt gaaaggaaca ggcgggtatt ctatatttcc acgaaggctt 540
ttatgtacct cttccgactt gattccg 567

<210> 1361
<211> 252
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (153)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1361
gagcgttggt ccttccagcc gcgtggtgaa gacaccaaca tgaactttgt actgactcga 60
aaattctcaa ggcatcgtta tagcaaccgc aactccgaag aagccaacta cttccctttc 120
acacataaga tacaaagtgc agaagacgca ccngaaaagt tcccccagtt gatggtaacg 180
gccgacaagt tcgtcatgaa acgagattgg gaagtggacg agatcttcga tggtcggaaa 240
agaacaaggt ga 252

<210> 1362
<211> 357
<212> DNA
<213> A.fumigatus

<400> 1362
gcataccgag atttaccgct taagctacgg cgagcctgta aagtatgcat cgactctgca 60
atcctgagca cagaggcctt tgatggaatc gaaggtcgtc cgatcgtgac aaatatcttc 120
ggaactgcgc atgcgcaatt cggtaacatg ctcgtgttgt ctgcgactta tatgtcttgt 180
ctctcagagc tggtggaccg aaatgtcctt gagaaacttc ttaagcgaac aattaaattc 240
ctgttacaga gccgatatat ctcccctagt gttcgagccg atgcacggat actcaccgaa 300
atctatgaga agatcttcgg agagcccgcc acgagtttta catccgccta tagctag 357

<210> 1363
<211> 363
<212> DNA
<213> A.fumigatus

<400> 1363
cgttgccaga ctcttcgcga cttgataaag aacggcttgt acgatgatat cgatcgttca 60
tggcgcctgt ttcgacagat tctggatggg cttagtcata ttcacagcca cggcattatc 120
caccgcgatc tgaaaccaga taatattttc attgatgtgg caagcaatcc gagaattgga 180
gatttcggcc tggctaccag tgggcagttt accacagctg tgcgttcatc gactaccgca 240
gattttgaag gcaacctcac gcgaagtctt ggaactactt actatgtcgc tccggagatg 300
aagtctggct tcgcaggtca ctataacgag aaagtcgatg tgagtataat tgaatcacag 360
tag 363

<210> 1364
<211> 792
<212> DNA
<213> A.fumigatus

<400> 1364
gcacccagtg gctgtggagc tctacaaaca gcaagggcaa gccgcgaagc agggttacaa 60
caagcgttac tggaatctgg agaaagttct cccaatgact ctagtacgag gattaacagc 120
caacgagctg atccttatcc tgccacaaac accgcatcca aggaggcatc gcagtcgacc 180
aaggaagatg acgagactat caatctagat gacccacgtt ctcagtctgg caaatactgg 240
aaagctgagt ttgacagcta ccgtgcaaga acgacgaacg aaatcagaaa gctgattcag 300
tatcggtccg ctgccaagaa attcgctctg atgaaggaag cagaagcttc gcgtctggct 360
aaaaaactga aggaggaaga agtgaaggtc gccgaaatgg aacgacacgt cacacagctc 420
gcgtcttcca tggtggcgga aaaagcaaag gcagatagag agcaactggt tcaagatttg 480
actaaacaga cagctttggc cctgcagtat aagcatcgag tcaacacctt acgcaagctc 540
ctagagcagc atggtgttgt tggtagtgag gtggatgaca tcgtgggaaa acgagaagcg 600
aataactcgt ccaacgatac aagccaggag ctggttaaaa cccagcaggc tctgagtcag 660
gcgaatgcca ggattgagga gatgaaactc cagcaagccg agttcgacaa actcaaggaa 720
ctcgcacaaa gctcagagca gaaggcttcg gagctggctc gtcttgacca cacgggcgaa 780
aatccacgct ag 792

<210> 1365
<211> 783
<212> DNA
<213> A.fumigatus

<400> 1365
actaacaaat ccctcggcgt cgcaggtctc gacaccgacc tccccaccgc agttgaagct 60
ttcttcctag actccctcct aggcaaggca ttcttctgca ccttccagat attcttctac 120
gccgtccgcc ccatgttcat ctacagtcct ccattcacct atattcacct gcttaacctc 180
atcactcaac tctccttcga ctatgccctc accaagttct gcggcggttc cctccagcca 240
ctactttatc tgctcctcag ctccttcctc gccggctctc tccacccctg tgctggtcac 300
tttatcgccg agcactactt cttctcccgg gtggagagcg gcggtacaga aagcattgaa 360
gagcagagga aaatgcgggc gaacagcgga gccagcaagc aaaagcagca accacaccct 420
ctggactccc ttccgccacc agagacatac tcctactatg ggcccctgaa catcctgaca 480
tacaatgtcg gcttgcacaa cgagcaccac gatttcccgg ccatcccgtg gacgaagctt 540
catgagcttc accgcatcgc gaaagaattc tatgagccgc tcccttgtca ccgcagctgg 600
gtctgggtca tctggacgtt catcctggat aagaatgtgg gcctgtggtg ccgtgtcaag 660
agagcgcagg gcggtcgtct cgttgggggt ggaaatggcc gagcggggga ggagatatgt 720
gctgcttctc ccgaaaccga cgaagaggga gatggttgga aggaaagtga gattcagaat 780
tga 783

<210> 1366
<211> 552
<212> DNA
<213> A.fumigatus

<400> 1366
tttcttaata ggcaggcata taatttttcaa ccctttcctcc ttttcgttac tacttccttc 60
ccagtacgtt tttcttatca tccagtcttc acccaattcc atctatctca gcaacctcga 120
agacctcttc atctaatcat cttcccaaac ttcatcctaa gtacaaccac aaccacaatg 180
actcgcaagc ccctccgcgt tggcgtcctc ctggtcggca ccgtccaact cttggacctt 240
gctgccgtcg acctcctctt catgatcgac ccgtcctacc taaccgcctg caccctcccc 300
aaacccctaa tcgagctcgg ccgcccggtg tcagtggtct acatcggcaa agctggccca 360
caagctcacc aggaaacgac ctccaacctc tccctgcaac tcacccactc tcccaccgat 420
cccgccgtcc aaccaggcgc ccttgacgtc attctcatcc ccggcccgga gccctcgact 480
gtcccggacg cagaatatct ggacctggtg cgcgcccaca acgccgcagg cacgcacatc 540
ctcagcatct gc 552

<210> 1367
<211> 336
<212> DNA
<213> A.fumigatus

<400> 1367
gatcccaatg acaacttcct ttccggaaac acagccaact acattgacga gatgtacctg 60
gcttggaaga aggacccctc cagcgtgcac atctcgtggc agacatattt taagaacatg 120
gaagaaggca acatgcccat cgcccaagct tttcaacctc ctccgactct tgtgcctact 180
ccgaccggtg gcgttcctca gaccatgcct ggtgagggat tgggcctgtc ggctggcact 240
gacctgactc atcatctcaa ggttcagctt ttggttcgcg cataccatgc tcgtggtcat 300
cacaaggcca agatcgatcc ccttggcatc ccgccc 336

<210> 1368
<211> 807
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (6),(76),(84)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1368
gcacgnttca aacctggcga tcgcgtgttg ggactgggta gcgagctcaa ggacaacaac 60
cccgccgagg ccgctntcca acantacacg gccatcccgg cccacgtagc gtccccgatc 120
cccacaggac tgtcatacga aaacgcctcc gtcattccgc tgggcatatc gacggcgagt 180
tgtgggctgt ttcagaagga tcacctggcg ctgcggttac ccacgagtcc gcgggctgcg 240
tcgagcggcc agctcgtact aatctggagc ggctcgtcaa gcgtcggcag caacgctatc 300
cagctggcgg ctgcggcggg ctacgaggtc gtcaccaccg cgtcgacgaa gaactttgag 360
tacgtcaaat cgctcggtgc aggtcacgtc tttgactacc acagcccgac ccttgtcgat 420
gatattagta aggtctacga cagcaaaact ggagttggtg cgctggccat cggcacggag 480
gcggcaggcc cttgctgtga ggtcctgtcc aaggtcaact cgcgcaagtt tgtctccttg 540
accaatcctc ccactggtgc attgccggaa ggcatcgaat ccaaattcgt gtttggagct 600
gctgtcaagg ataacgagat tgggccagcc atcttcgagg cattcctccc caaggcgttg 660
gcagcgggtg agttcaaatc tgccccaaca gctgaggtgg taggtaaggg attgggatcg 720
attcaggcgg ggctcgaaca ggtgaagaag ggtgcgtcag ccaagaagta tgtcatcagt 780
ctgcacaggc ctcctagatt gttattt 807

<210> 1369
<211> 627
<212> DNA
<213> A.fumigatus

<400> 1369
agacaggaca tgggctacgc acagtccaag ctagtcggcg aacacatctg catccacgcc 60
gcgcagcaga ccggtatccg tgcccgcgtc ctgcgcatcg gccaggtcat cggcgaccag 120
gcccacggca tctggaactc cacagaggcc atccccctca tgctgcagtg cgcaaagacc 180
atcggcgccc tccccgccct cgatgagtcc ccgctctggc tccctgtcga tacagtggca 240
ggtaccgtcg tcgacatctc cctctgcgac tttccggccg taccgcccga acacgaacag 300
gtcttcaacg tcgtcagccc gcatcccttc cactggaccc gggatctgct gccgtatctg 360
cgcgccgcgg gcctcgagtt cgacgtgctg gagcagcgtg cctgggtggc gcggctgaag 420
cagtcgaacc ctgaccctgc cgttaaccct cctatcaagc tggtggagtt ctttgcaagc 480
aagtatgata cggacgcgcc gcggcggggg aagaattggc atacagggaa gacgaaggag 540
gtatcgcgca cgttggcgga gtcgaagccg ttgagtcagg agctcgtgag caagattgtg 600
gagtatttct gcaaggagtg ttggtga 627

<210> 1370
<211> 384
<212> DNA
<213> A.fumigatus

<400> 1370
tcggcgaaca catctgcatc cacgccgcgc agcagaccgg tatccgtgcc cgcgtcctgc 60
gcatcggcca ggtcatcggc gaccaggccc acggcatctg gaactccaca gaggccatcc 120
ccctcatgct gcagtgcgca aagaccatcg gcgccctccc cgccctcgat gagtccccgc 180
tctggctccc tgtcgataca gtggcaggta ccgtcgtcga catctccctc tgcgactttc 240
cggccgtacc gcccgaacac gaacaggtct tcaacgtcgt cagcccgcat cccttccact 300
ggacccggga tctgctgccg tatctgcgcg ccgcgggcct cgagttcgac gtgctggagc 360
agcgtgcctg ggtggcgcgg ctga 384

<210> 1371
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1371
ctttcgacgc ttttcgtcca tcccgtcgtt aacatatgga tcccgatctg gaccgtcttc 60
gtcgccctca ggagcgccgc cgcgctggtc ctccccttcg ccttcctcta cgccgtctcg 120
aactaccagc ttgccgttgg ctccttcaac gagctcatct actgctacat ggtgcacacc 180
aatgccggct ag 192

<210> 1372
<211> 696
<212> DNA
<213> A.fumigatus

<400> 1372
ggccaccggc acccctgcgg gccctccacc tacggctcca tcgccggcga cgcctggtac 60
cgcgcgcagt acatgctcca ggaccagaaa atcggacact acatgcatat ccccccgcgc 120
accgtcttct tctcgcaggt cttcggcacc gtcctcggca tccccatgaa ctacgccgtc 180
atgcgctggg tcctgtccac caagcgcgac gtccttaccg gcgccaagcc cgatccgctg 240
caccaatgga ccggccagtc gctcatctcc tcgaatacac tcggcgtgca gtacgccgtc 300
atcggacctg ccgagctctt caaacagagc gagatgaggc cgctcccctg gtcgttcctg 360
ctgggtgcgt tgctcccgcc ggtgctgtac ggcctgcatc atctcctgcc gcgctggcgc 420
atcgatctct ggaacgtgag cattttcttc tccgggctgg cggtgttcta cgggaatttg 480
agtacgggat acacgtctgc cattatcggg gggtatgtgg tcatgtactg ggcgtatcgg 540
aagcggttcg aggtgtggaa gcggtacagt tacatgattg cagcggcgtt cgatgccggg 600
ttcaacctga acatgctgct gattttcttg ttctttgggt cggcgaagca gatctcctgt 660
catcacgccg aggccggaca gatccgcact tacgct 696

<210> 1373
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1373
atttcttcat ttggtccttg tacaccatta gattacctct atacctgcga cgtgagtctt 60
caaccaataa aggctatatt tccatccagt tcctgttgtg acgacgatgt ttccctcaca 120
cctaatgact acacaatcgt gtggatatgc gccttgcctt tggaggcagc agcagcaagt 180
gctatgctag acaagaccca caccctacct ccactgtctt atggccaagc cataccctcg 240
atgctcttca acacgcacct cctagtacat acaagagaca tttag 285

<210> 1374
<211> 216
<212> DNA
<213> A.fumigatus

<400> 1374
ctggtttata ctagaacccg aggactggac ttggtaaagc aacatgagag tatcgaattc 60
gtatatgtga attactccga atccagcact tcctgcaagc aggcgtccgt ctgcactgga 120
ggcgagcgtg tggcaattcg cgtgacgact ttccaaggtc tgatcgtcaa atggattgag 180
aagcacgagc tcaccatcaa ggtacgatac aacaag 216

<210> 1375
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1375
gtagcgcggt ccttccagcc ccgtggtgaa gacgagagta atgtttggac caatgtctgg 60
cagaatccga cacagcacgc caaaagtggt tccgacaaga acagcctctg ccaacgcttc 120
gattctacca cccttctctc cttcttcgtc atctcagatt gtttctactt tccccccttc 180
tcaaggcatt tgacttcaat ttcactatgc ggccgcagtt gtttcgtgcg gccgcccggt 240
ccttccgggt ccctaaattg a 261

<210> 1376
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1376
gctgatgtgg tgaggtgggt ggaccagaca tatatcgctg tcctgggatg gaggctgatt 60
agatgttcta gggctctccg tgcgttccag agcaaggatt cgacagtcgg caagttgttc 120
gcaaagcaca tcaagctgga ggaagcaaaa cagttcttgc agcgcgcacg gtatgttcac 180
tatgatcttg gcctcaattg a 201

<210> 1377
<211> 882
<212> DNA
<213> A.fumigatus

<400> 1377
agacccggtc tcccagcttc ttgggcggac ggctcatttc cttcctccac agtccggaat 60
gaggccggtc acgtcactct tcaaggctgg cttgctcaat ggagtatgac aacgttccaa 120
tcacctaaga cgactctgga gtatctggct tatctcggct ttgagtcgtc cgataggagt 180

aatccctcta caacggctgc cttgaaagtc acgcggccac gaaagaaacg aaagcgccct 240
ggacgtgtgg gtcgtaacgt cgtcttggga cacgtgcttg gggctccagg atcgggcaaa 300
tcagcgcttc tcgacgcctt cctcgcgcgc ggcttcagcc acacttatcg accgactatc 360
cagccccgga ctgctgtgaa cacggtcgag ctccccgggg ggaaacaatg ctacttgatt 420
ttggatgagc taggagaact ggagcccgcc attcttgaaa accaggcaaa gcttctggat 480
cagtgcgacg tcattgtata cacgtatgat tcctcagacc cggactcctt tgcctatatt 540
ccccagctcc ggtccaagta tccgcacctt gaagagctcc cgagtgtttt tattgcgctt 600
aaggccgatc tggatcgtac cacacaacgg gctgagcatc agccccacga gtacacggcc 660
atgttgaata tgccgagtcc accgctccat gtcagcgcta cttggagttc cattcaagag 720
gtgtttgtac acattgcaga tgctgcaatg gagcccaaca cttgttttcc ccggagtgag 780
gaggacgtgg aaggggaaat gggtgggcct ggcgttagcc acttgggagc caatggtttg 840
cgcttggggc ttgctgcccg gaagaatttg gcgaataagt ag 882

<210> 1378
<211> 213
<212> DNA
<213> A.fumigatus

<400> 1378
gcttacctag gtattccgtc gattttctgg tacatattcc gtactgccct tgtcgttatc 60
aacaataata atcaccgtca aatcgtctca atttccctaa ttgttatata taatttttt 120
tttattatta ttctggtttt attcctgttc caacttgctt taacccctct ggacaagcgg 180
ggtcaaaaaa gcccctccca taggcattgg tag 213

<210> 1379
<211> 819
<212> DNA
<213> A.fumigatus

<400> 1379
ggtgaagaca cctacactca cggccaccac ccctccgtcc tccgctccca cacctggcgc 60
acagccgcca actcggccgc ctacctcctc ccccacctgc gcccagacat gcacatcctc 120
gacgtcggct gcggccccgg caccatcacc gtcgatctcg cccggctgat cccacagggc 180
cacatcaccg gtgtggaact ctccccctcc gtcctcgagc aagcccgcgc cctcgctgcc 240
gaccaggccc tcaccaacgt caccttcctc tccgcggacg ccaacgccct ccccttcgag 300
gagggaacct tcgacctggt cctctgccac caggtcctgc agcacgtgcg cgacccagta 360
catatcctag cggaaatgcg ccgggtcacg aaagaaggcg gcctggttgc agcgagggaa 420
tcggattatg cggggttcgt gtggtacccg gcttcccccg ggctggatgt ctggcgggag 480
acgtacctga aggtgtgtag ggcgaacggc ggggagccga atgcggggcg gatggtgcat 540
gtctgggcga agcaggccgg gtttgcgcgc gagcagatca agtgcagttc gagtaattgg 600
tgttatagta cgcccgagga agtggagtgg tggagtgggc tctgggccga gaggaccgtg 660
gcgtcggagt ttgggaggac ggcgagggag aatgcgggtg ttgaggccgt agagttggag 720
gggattgcga cggcctggag ggagtggggt gcgcaggagg atgcgtggtt ttcggtcttg 780
tcgggggagg tgctttgcgt taaggggggg aggtggtag 819

<210> 1380
<211> 495
<212> DNA
<213> A.fumigatus

<400> 1380
agacacctac actcacggcc accacccctc cgtcctccgc tcccacacct ggcgcacagc 60
cgccaactcg gccgcctacc tcctccccca cctgcgccca gacatgcaca tcctcgacgt 120
cggctgcggc cccggcacca tcaccgtcga tctcgcccgg ctgatcccac agggccacat 180
caccggtgtg gaactctccc cctccgtcct cgagcaagcc cgcgccctcg ctgccgacca 240
ggccctcacc aacgtcacct tcctctccgc ggacgccaac gccctccct tcgaggaggg 300

aaccttcgac ctggtcctct gccaccaggt cctgcagcac gtgcgcgacc cagtacatat 360
cctagcggaa atgcgccggg tcacgaaaga aggcggcctg gttgcagcga gggaatcgga 420
ttatgcgggg ttcgtgtggt acccggcttc ccccgggctg gatgtctggc gggagacgta 480
cctgaaggtg tgtag 495

<210> 1381
<211> 303
<212> DNA
<213> A.fumigatus

<400> 1381
aaggaaagca actcgaacca ccttgaccta attaccgtag tcatctatga tataatgtct 60
cttgcaggag caaacgaagg tattatctac cacctccccc ccttaacgca aagcacctcc 120
cccgacaaga ccgaaaacca cgcatcctcc tgcgcacccc actccctcca ggccgtcgca 180
atcccctcca actctacggc ctcaacaccc gcattctccc tcgccgtcct cccaaactcc 240
gacgccacgg tcctctcggc ccagagccca ctccaccact ccacttcctc gggcgtacta 300
taa 303

<210> 1382
<211> 882
<212> DNA
<213> A.fumigatus

<400> 1382
cccccatggc gcggctcctt ccagccccgt ggtgaagaca ctggacctaa gggcagtcgt 60
gctcagtcag cgattcctgt taccaaccta cctaagccgc ctattccggc agtagccaat 120
cctcctcttg ctagtgttcc tggaaataat gtgtcacaag gacctgcgtt gtccgctatc 180
acggaggcta ctcgtgctgc aactgctgcg gtggctgccg ccatggccaa gctgccacag 240
cctaatgctc agaaacagtc ggtgcaggat gcagctgttg acgccgtgac taagcagata 300
ggtgaattga agacgcacga aggcggccgt cctccacgcg gtggacatcg tggtggacgt 360
agtggtcatc gcggccatca ccagggacca gccaagaagg ttgaagttcc cgacactgac 420
tatgactttg aaagtgccaa tgccaagttc aacaagcaag atctggtcaa ggaagctatt 480
gccaccggct ctcctgtgac cgaggccgga gcacacgtcg agaatggtga ggtcgaagct 540
gttgataccg ctcatcatgc gccgtccacc actgcttctg cttacaacaa gtccgcctca 600
ttcttcgaca acatctccag cgaggctcgc gaccgcgagg aacgctccgg aggtcgacct 660
ggtggtcgtg agtggcgtgg cgaagaagag aaacggaaca tcgagacctt cggccagggt 720
agcgttgatg gctatcgcgg tcattacaga ggccgtggca gaggcagagg atacggtggc 780
cggggccgtg gtgggtatgg tcgcggctac aacactcgag accgtggtaa ctatcggggg 840
cgcagcaact cgcagtctac cggggtgcct gcaccggtct aa 882

<210> 1383
<211> 351
<212> DNA
<213> A.fumigatus

<400> 1383
aggtcgcccc gcgcgtcgct gcgcttgagc ggcatgcctt ctccgggtac cttcagaacc 60
tggccgggtg ataacacctc cccgggagtc ttgggatggg tgatttcgat gccgcggccg 120
tcgagatgtt tgatgaccac gcgggagaag ccggtcagcg cttcggccag tgtgacgtcg 180
atgttggctg tgaggtctgc gccggctcgt cggaagactg ggtgttcctc ttccacgata 240
tggaaaacta tgtcgccagg ttcctggccg ggtgcctggt ccgcctcacc ttccaacacg 300
attttatctc cttctctaag cggatattta gccagaggat tcgcgcccta g 351

<210> 1384
<211> 588
<212> DNA

<213> A.fumigatus

<400> 1384
ggcgcgaatc ctctggctaa atatccgctt agagaaggag ataaaatcgt gttggaaggt 60
gaggcggacc aggcacccgg ccaggaacct ggcgacatag ttttccatat cgtggaagag 120
gaacacccag tcttccgacg agccggcgca gacctcacag ccaacatcga cgtcacactg 180
gccgaagcgc tgaccggctt ctcccgcgtg gtcatcaaac atctcgacgg ccgcggcatc 240
gaaatcaccc atcccaagac tcccggggag gtgttatcac ccggccaggt tctgaaggta 300
cccggagaag gcatgccgct caagcgcagc gacgcgcggg gcgacctcta cctcgtcgtc 360
aacattaagt tccccgacgc caaatggaag cccagtgcag ccgtcctgga aagactccgg 420
gagatgctgc ccaagcctga tcccttgatc caggccgata cggtcgacga agtcgactat 480
gaccctaaag gaaacctaga tgactttgga gcccgcgatg ggcagggtag ttccgcatgg 540
gaagacgagg aggaggacgg agagcccgcg cagtgtgcgc ctcagtag 588

<210> 1385
<211> 402
<212> DNA
<213> A.fumigatus

<400> 1385
gtaaatcccc gcagccgggg ttggaccgag ttgctgacaa gcgtcattcg gattcagcct 60
actgttgatg tttttgagaa gcgcatcgcc gccctcgagg ggggtgtggc agccgttgca 120
gcttcttccg gccaggctgc gcagttcatg gccatcgccg cgcttgccca cgctggcgac 180
aacatcgtaa ctacgagcaa cttgtacggc ggtacttata accaattgaa agtcttcctt 240
cctcgtctgg gcatcacaac caagtttgtc caaggagaca ggccagagga catcgccgca 300
gccattgatg accgcaccaa ggctgtctat gtggagacta ttggcaatcc gcggtacaat 360
gtacctgatt ttgaggccat cgccaaaggt cgctcacgat aa 402

<210> 1386
<211> 270
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (156)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1386
gatcaacaac tttcaagaat cttggcgggt tactttctta ccgatcccct ttcgaccaac 60
cggtgctcga aattccgtct tccaacatgc gtcaaaccta gttggaattg ggtgggtcct 120
tgtgaaacca accaacttgc gcggcatttg gttgtntgta acaaccagtt tcaatttatg 180
aactgccggg tcaaccccac ccccaacaat aattcccccc atatttcctc ccgaaaacgc 240
gtcccgaaag ggctctcccc cgggaattga 270

<210> 1387
<211> 264
<212> DNA
<213> A.fumigatus

<400> 1387
acccgccaaa gccggcacat aaaggagctt gatggcccca gtctatcagc agttcccatg 60
gtacctaatt cagagagaaa tagtaacagg accctgaaca atttgattcg cttcgccaat 120
ctagcttccg agatccacca gaacatagtc tcctacccag agtccaatct atatgacctg 180
cagaatagga agagaacctc gagtatttct aatctggatg gcgcttttca gatgcttatg 240
ggcattctca gaaagcccag ttaa 264

<210> 1388
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1388
tcattagcgg ccataattcg gtcgacttgg gcagccaatt ctgattggat actcacagct 60
gctcccattg cggataatac catccaaaac tgcgacgagg ttcgagataa catggtcgac 120
ctcatcaagc cctgcaagga cagtgatagc atcggagctg ggattggtat atttcttctt 180
cagcacacat gctaa 195

<210> 1389
<211> 858
<212> DNA
<213> A.fumigatus

<400> 1389
acaccgtacc tgcgcgtgat gatccggtat agtcgcatcg cggccaaggt gtggaagttc 60
atctcggcct ttaacaacac cggcgagctc aaaaaggacg agatgaacta tctggactgg 120
ctggtcttgc aatgggcggc cgccatcccg gcgtcgctgc ggttgggggc ggacagctcc 180
acggaaccac gcatcctccg ccggctgcgc tcgctgctat tcctgcgagc gaaccagctg 240
cgcatgctca tccaccggcc ggtcctgcac tccgcgggcc atctcgtgcg gtatccggcc 300
gagtgccaga cggccgtgga cctggccaat gacacgatcc gcttcatcac tcggctgatc 360
gagacgtcgg acatttacca tctgcatcag gtggcgttca actggttttt aatgtcggcg 420
ctggccgtcc tgtttctggc ggtggttcat gcgccgatcc agttcagcag ccggtgcaag 480
gaggagttct acatggccct ggagctggtc aacggcttct ccacgcaatc gtacatttcg 540
cggcgcctgt ggaaatcgat caagagcctg cgaaagctcg ggccgcaggt tgggctccgg 600
cagtcggcta ctgacccgcg cgttcgggcg gctcatcaga cggtggatat ggcgccgacc 660
agcaacccga gccagacccc gcaggacggg gcgcagatga cgcaggaatt gatggagtgg 720
tttgaggccg tggggacgtt ggagactcag attatgggcg tgacgcaggt ctttgacgat 780
ggcagtggcc ggatggccaa tgggtatatg tatgactatg ggggcgatct gtccaatgtc 840
atgcgcgatt tgttttga 858

<210> 1390
<211> 273
<212> DNA
<213> A.fumigatus

<400> 1390
cgagcatatt ccccggctca tgggcaaaca ccagcccctc gatctttccc cccgccatct 60
caaccgccaa ctgcggcgtc accccgcacg cctaactgtc cgtcagcagg ggcctgcccc 120
tcgtatccag ccacagatga agggccacct tacccaaaac acaggcacct caccctcctc 180
gaacaccggc gcctcacccc aatccggggt cttgatatcc ttgatcccca accgttccgc 240
cccgtcccac ccccaggcaa ccggctcccc atg 273

<210> 1391
<211> 399
<212> DNA
<213> A.fumigatus

<400> 1391
agagctcgaa atcacctcga ggtcatttca cagaccaaga ctctatccaa tcgagactct 60
caaacatcct ctatctccac atacctcagc tgtaccatca aaccattcaa tatgaagccc 120
tccattgtca ccttcctcat gcttgcagcc gtcaccgcgg ccgtctccgc cgaggatccg 180
accatgtccg ctctgaagtc gcgggtggag gagatcgctg gccaggtcca tggagtcgag 240

gaccaggaaa ccaccccaga tctgtcccat tgcgttgaac caaaactgtg ctgcggctcc 300
ttgacaactc ccctggatcc cattttggac cctattctgc ttagtcttgg cataaatgct 360
gcccagaata attggttccc gttggaatgg ctcctttga 399

<210> 1392
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1392
ttgctgctcg atatactcgg tgacccattg cgtcacttaa gacgctgctg caaatgtatt 60
ggtgaaggtt gcggtggacg tttactaacc gaacggcaaa atgccgtcta tgagtttgaa 120
caatgccgtt tgccgaagta ttctcgctat gccgacctac aagagctgaa gagcatgact 180
aacttgacca ttacatgcac ttatacttct ctaatgttct cacagccatt agtcggtgga 240
gtttacatac gctcgcactg a 261

<210> 1393
<211> 468
<212> DNA
<213> A.fumigatus

<400> 1393
gggccgcttg gtaaaaatga ctttcgggcc tttcaactgc tccattgtgg gccatttatg 60
gatcgccaga ctggcgcaaa acccgacgac cgtgtgggct tcgaaccgga caaatggcag 120
aaggatgtcc tcgatgagct tgacaaaaac catagtgtct ttgtcgtagc tccaacaagt 180
gcgggaaaga ctttcatcag cttctatgct atgtcgaaag tgttgcagga agacgacact 240
ggggtcctgg tatatgtagc tccgacaaag gcgctggtga accagatcgg tgcagagatc 300
catgcacgtt ttcggaaaag gtactcgggc cctgagcaga cagtttgggc tatcgctact 360
cgcgatgtcc gtataaacga tcccttgaag tgtcagatct tagtgaccgt gcctcacttt 420
ctccagattg taagtgcaat gaactcagct atcactattt ctctataa 468

<210> 1394
<211> 618
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (498)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1394
actcagctat cactatttct ctataattat ttcctactga cagcagtctt taagatgctt 60
ttgtcctcgg cgaacgccac cacatgggct cctagagtca aatgcatcat ctttgatgag 120
atccactcga taggtcatac cgacgatggt ttagtttggg agcaactttt attgctcgct 180
ccatgtcgta tcatcgctct atccgcaacc gtgggaaatc catcagagtt tgctgattgg 240
cttcaatcga ctcagaataa catgggcgtg actctcaaac tgattcagca tacacagcgt 300
tactcagacc ttcggaagta tgtttatatg ccggcagatc gtcccttcga tggcctatcc 360
cgaccgaggc ataagggcct ccttgagcct aaattcattc caggcttgca ccccccttcac 420
ccaatcacaa gccttctcag caagcagcgg caaatacctg aagatctttc ccttgagccg 480
agagactgct atacactntg gagatgtatg gtaaagtact catcagtcga ctttcctgtg 540
ccagaatctc tgagtccaca acttgccctc ccacggttca ttaggcggag cgatgtgtac 600
gaatgggagg cgcagcta 618

<210> 1395
<211> 345

<212> DNA
<213> A.fumigatus

<400> 1395
gcaagagcgt atctaacgat cttcataagt tttctgtccc tggctctgtc caacgacttg 60
gtgatgagct ccatcttgac tctgtcggct tcccacctgg cctggatcac acggaatcag 120
gaaaccaaac agctggcata tcatcatcgc ggtatcgcga tcaagggtct gcacaaggcc 180
attggtacat tctcaaagga gaactgcgag gccatcctgg cttcatctat tcttctctcg 240
tggcaagcgt ctgattggca aacgtgggca tccttgcagc aaggccttag tacggtgagt 300
atcctaccgg tcaaaaagcg gttcgaaaga ggggaaagaa actaa 345

<210> 1396
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1396
gtgatagact ggacttgccc tcaaaccagt ttagctgtaa tagtcccctg cgtcgccagt 60
ccgtcgtcat gtacacaggc atccgaacgc gatctgaagg ccaagtcttt caaacccctt 120
gcatttagtc gagactattc tggccagtca aataataccg atctaggcgg atctcaaaga 180
tatacctacg ttgcggagaa tgctgcgctc agacgcacgc ggatctgctt tgaggattaa 240

<210> 1397
<211> 1188
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (31),(35),(36),(53)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1397
gtggtatcta tgtgcccggc cggcgcgatg naaannagaa ccgtgaggcc gcnggacaag 60
aaagcggcgt cgattgagga gacacggaag agcttaccca tctaccagtt ccgggatcag 120
ataatccagg cggtgcatga tcaccaagtt ctgatcattg taggagagac cgggtccggc 180
aagaccacgc agatcccgca gtatctccac gaggccgggt tcaccaaaaa cggtatgaag 240
atcggatgta cgcaaccgcg acgggtggcc gccatgagtg tcgcggcccg tgtggctgaa 300
gaaatgggag tgaagctggg caacgaagtg ggctatgcta ttcgttttga ggacaacacc 360
agcgacaaga cggtgctcaa gtacatgacc gacggtatgc tgctgcgtga gctgctaacc 420
gagccagacc tgggccaata ctcggccctg atgatcgacg aggcccacga gcgaacggtg 480
cctactgaca ttgcctgcgg tctgctcaaa gatatagccc aggcgcggcc ggatctgaaa 540
ctcctgatct cctctgccac catggacgca cagaagttcc agaaatactt tgacgatgca 600
cccatcttca acattcctgg ccgtcggtat cccgtggaca ttcattacac ttcgcagccc 660
gaggcgaatt acttggcagc cgccatcacg accgttttcc agatccatgt cagccagggg 720
ccaggagata tcctggtgtt cttgaccggt caggaagaga ttgaagcggc tgaacagagt 780
ttgcaagaga cggcccgcaa actggggagc aagatccccg agatgatcat ctgccctatc 840
tacgccaacc taccgtctga gctccaggcc aagatcttcg agcccacccc acctaaagcg 900
cggaaagtcg tgctggccac caacatcgcc gaaaccagtt tgacgatcga cggcattgtc 960
tatgtcatcg atccgggatt cgccaaggag aatgttttca atccgcgcac aggcatggag 1020
agcttggtgg tgacgccttg ctcgcgagcg tcggcaaacc agcgagctgg tcgagccggt 1080
cgagttgggc cgggaaagtg tttccgcctg tacacgcgat gggcttacta caacgagttg 1140
gaagagagta ctacgccaga gatccaacgg acggtcttca ccacggga 1188

<210> 1398
<211> 1170

<212> DNA
<213> A.fumigatus

<400> 1398
gtggacagtc aatacctgta ttttcccggg tgcatgatca tgtcatttga cgatccgtcg 60
acgaggacga ccgaggtgaa gctggttcga gtggcgcagg gaatcaatct gcagaaactc 120
gccaacactc atcgaatcta caaaaatgtg gtgcatgatg tgatcggagt ggaagaggct 180
attcaggaac tggaggatat tcaaaagaaa ccgccgcgat tcaacaagtg gatcgtcgtg 240
ttggtatacg gattggcgtc tgcgactgta ggaccgtttg cgttcaatgc ccggccgatt 300
gacatgccca tcatcttctt caacggctgt ctgctcggcc tcatgcaaca agtcttcgcg 360
cctcgctcgg cgctctactc gaatgtcttc gaagtgacgg ccgcagtgct cacctcattc 420
ctggcccgcg cctttggcag cattcccaag gccgtcatcg acggcaagcg gcagtttctc 480
ttctgtttct ctgccatcgc ccaatcctcc attgcgctga ttttgcccgg cttcctcgtg 540
ctatgcagca gcctcgagct acaatcccac cagatcatcg ctgggtctat ccgcatggtc 600
tacgcgatca tttactccct cttcctcgga tacggcatca cagttgggac aaccatctac 660
ggactgatgg acccgtcagc tgtatccgac atccagtgtc ccaaagccgg ggccttcaaa 720
aacccatacc tgcagcggtt tcccttcgtg gccatcatga ccgtctggct gctcatcatc 780
aaccagggca aatggaaaca gttaccggtg atgtcgacca tcgccatgtc cgggtacatc 840
accaactact tcagcacgaa gcggatgggc tccaactcgc aggtcgccaa caccgttggc 900
gctttcacca tcggcattat gggcaatctg tacagtcgcc tgtggcacgg acatgctgca 960
acagccatcc tccccgctat cctcgtgctg gtcccctcgg gtcttgcagc gtccgggtcg 1020
ctgatcaccg gcgtggcgtc ggctgatcag atccggcaca acattagtag tcccagcggg 1080
acctcgcagc cgggggcggg cctgtcaacc aattcgtcgg tgtggacgct agcggtggcg 1140
atggtttgtc ttcacgcagg cgcgccgcag 1170

<210> 1399
<211> 402
<212> DNA
<213> A.fumigatus

<400> 1399
gccccatcaa cgtatggcag gctcacggct ccactctgtg cggagtttga gacatcgtcg 60
gtgccaacat ccacctttc ttcaacgcgg atgtctccgc cgaccaggcc ggcaagttcg 120
ttgctcagga gatcaaggtc cttgagagca tctgccctgg caaggatgtt ctcaacctgg 180
agaccggctg gcctcacgct ggtaacgcca acggcaaggc tgttcccggt acctccgagc 240
aggctatcgc catcaagtcc attgccgacg aagtcggctc caagtctgtc ttcttctcct 300
actttgatga cctctggaag gagcccggtc agttcggtgt cgagcgctac tggggttgct 360
tcgacacctt caactaaagc gcgggttgag cttgcgttct ga 402

<210> 1400
<211> 327
<212> DNA
<213> A.fumigatus

<400> 1400
gacatcgtcg gtgccaacat ccacctttc ttcaacgcgg atgtctccgc cgaccaggcc 60
ggcaagttcg ttgctcagga gatcaaggtc cttgagagca tctgccctgg caaggatgtt 120
ctcaacctgg agaccggctg gcctcacgct ggtaacgcca acggcaaggc tgttcccggt 180
acctccgagc aggctatcgc catcaagtcc attgccgacg aagtcggctc caagtctgtc 240
ttcttctcct actttgatga cctctggaag gagcccggtc agttcggtgt cgagcgctac 300
tggggttgct tcgacacctt caactaa 327

<210> 1401
<211> 1161
<212> DNA
<213> A.fumigatus

<400> 1401
aatccctatg aggtgacaaa ggaagacaaa gttcaaccgg aaaaccttcc cccggctcag 60
atttcattga ctgattgcct tgcatgctcc ggatgtgtca cgtctgcgga agcagtgttg 120
atatccttgc aatcacatac ggaggttctc aatactcttg attcgtaccc cgaattgccg 180
cttggttcta caagctacca aagaggcaca caaaaagttg gatcagcaga cagcgatggt 240
cgcatctttg ttgctagcgt cagccctcaa gtcagggcga gcttggcagc cacatacgga 300
atcaccgagc gggaggcgaa atatatgatt gaccaatttc ttatgggccc tcacggtctc 360
agagctggtg gaaaacatgg caatgggttt acatgggttg tggacacgaa cgttatgcgt 420
gaagcagtgt tggctctgac agcggacgag gtcacgagct ctttattatc aactggatcg 480
ggcagccttc ccaagagtcc aattctttcg tccgcttgcc ccggctggat atgttatgct 540
gaaaaaacac acccttttat ccttccgcat ttatctcgcc tcaagtctcc tcaggcgttg 600
agcggcacat ttctgaagtc agtgctaagc aaggcacttg gggtcccgcc ttctcagata 660
tggcatttag ctatcatgcc atgcttcgac aagaagctgg aagctagccg ggaagagctg 720
acagacattg catgggcttc aaccttcacc cagtcacaga caacacccgt ccgcgacgtt 780
gactgtgtca taaccacccg tgagctacta actttagcca ctgctagggg gctttctcta 840
cccaatttgc cgctcaaacc attgcccgcg tcatgtttaa ctccatttcc agatcaagcc 900
ctagaatcat ttttgttctc taagagctcg tcgggccaaa cagtcgaatc agggacatct 960
ggaggctatc ttcatcacgt cctccaaatc ttccaagcca gaaaccccgg cagcaagatt 1020
gtcacccagc gtgggcgcaa cgccgatgtt gtggaatatg tgctcatgtc gtctggggat 1080
gagcctcttt ttagggcggc tcggtattat ggcttcagga atatacaaaa tctcgtcaga 1140
aaacttaaac ccgcacgcgt g 1161

<210> 1402
<211> 396
<212> DNA
<213> A.fumigatus

<400> 1402
gctccctgcg ttgcactttg ctgcctcatt ctgaccagta ctgatcaatt ctttgagaaa 60
cagagtactc agccatcatg ccctcatctg ctcctctcgc tggcactgcc aatggcaatc 120
tcaacgccaa tgacaacatc actcgcttcg agcctcccag ccgagtgctc tctcctctta 180
ctcacactct cttccacaac aagacgagat gcttcgtata gtaagtgttt cctggctgca 240
aacagggtca atggctgggc tgatggttat cacagcggta tgcaacccag agccgtgcaa 300
ggcatgctcg acttcgactt catttgcaag cgtagcactc cttcggttgc tggtatcatc 360
tacacttttg gtggccagtt cgttagcaag atgtag 396

<210> 1403
<211> 270
<212> DNA
<213> A.fumigatus

<400> 1403
ctatggaatc gtaggtactg gggtactagc gagactctcc ttcctgtcta ccaggatgtg 60
gccaaggcca tggccaagca ccctgacgtt gacaccgttg tgaacttcgc ctcctcccgt 120
tccgtctaca gctccaccat ggagttgatg aactaccccc aaatcaagtc catcgccatc 180
atcgctgagg gtgttcccga gagagtatgt cttgcttaca tttacccgca tagagtaaag 240
aagttaacgg tgggaacagc gtgctcgtga 270

<210> 1404
<211> 354
<212> DNA
<213> A.fumigatus

<400> 1404
cggtgggaac agcgtgctcg tgagatcatg gtcactgcca aggagaaggg tatcaccatt 60

attggtcctg ctaccgttgg tggtattaag cctggtgctt tcaagattgg taacaccggt 120
ggtatgatgg acaacattgt tgcctccaag ctctaccgca agggttccgt cggctatgtt 180
tctaagtccg gtggtatgtc caacgaactg aacaacatca tctctcaaac tacagatggt 240
gtccacgacg gtatcgccat tggtggtgac cgctaccccg gtaccacttt catcgaccac 300
ctcctgcgtt atcacgccga tcctgattgc aagatcctcc tcttgctcgg ttaa 354

<210> 1405
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1405
acccgttgcg ctcagtgcca cactgtcgag tctggcggtc cccacaaggt tggccccaac 60
ctccacggtc tcttcggccg taagaccggt tccgccgagg gatacgctta cacggacgcc 120
aacaagcagg ccggtgttac ctgggacgag aacagtctgg tatgtttgtc attttccata 180
cttgcctga 189

<210> 1406
<211> 567
<212> DNA
<213> A.fumigatus

<400> 1406
tatcgtcaca gggctttcgg tcttctgctc tacctgacca ctgccagcct ctccttcgct 60
ctggtcttcg acaaacgtgc catgcaacat cccaaattcc ttcgccatca gatacggctt 120
gaaattgggc aggcgttgcg cgcaatgccc gtgatggcgg ccctgactgc tcctctcttt 180
ctggctgaag tgcgaggata cagcaagctg tacgactttc ccaccggaag tcccttccct 240
ctctatacct accttcagta cccgctcttt atcgcattta ccgattttgc catctactgg 300
attcatcgag gactccatca tccggccatc tacaaacgcc tgcacaagcc gcatcacagg 360
tggatcatct ccacgcctta tgcgagctac gccttccacc cagtggacgg ctggtgtcag 420
agtctcccgt accatgtcta tccgtttctc tttccactgc aaaaggcggc gtatttgggt 480
ctctttgtgt ttgtgaccat ctggactgtc atgattcgtg agtctcctga gctcttaatt 540
tctgaagctg cccgatgctt atgttga 567

<210> 1407
<211> 291
<212> DNA
<213> A.fumigatus

<400> 1407
aatgaatgcc cagatgatgg agagtacgcg ctcgactcgc ccgtgatcaa tggatcggcc 60
tgccacacga ttcaccatta ctatttcaac tacaactacg ggcagtttac cacgttttgg 120
gaccgtattg gaggaagcta tcgtaggcca aatcgggagc tattcgacaa gcagcaacgg 180
ctccagcaga ccgagatcca gcggcaagtt gaggagatgg agagattggt aaaggaggtt 240
gaaggatctg acgatcggtg ctatgagcaa gacaccaaga aaacttcctg a 291

<210> 1408
<211> 675
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (558)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1408
gtggttatgg gcagtcgaac tcgatctgat ttaaatcttc tttgcagata tctcacccac 60
gggtcatggt gccttctctg gccggtccag ctccttatct tgcggataca gaagaggaag 120
ctttcctggg aagcattctg gcgacgtcac gtttatttgt tacgcaccac ggcgcaaatg 180
gttgagtcga gggatcttca tctcacgtcg cgcgatttgc accggtcacc gattccctac 240
atgctcagga ccacggcttt cgtgaccgtc gccctcacca ttgccggtgg atcatggtat 300
gtggcagtta atcttacgac agccagtgac ctgaccgcaa tctacaactg ttccgcgttc 360
ttcgcatatg ctttctccat tccgctactg aacgataagc tgcggtgcga caaggtgtgt 420
acggttgtcg ctgccattgt aggagttcta gaggttgcgt acggtgatcg cagcgaatgc 480
aaacagactc cggacggcac agtgtggaaa acaaagcagg acgcacagaa cagactctgg 540
ggcaatatca taatcggngt cggaagcgtg ctttactgtc tgtactacgt attgcacaag 600
cagtacgctt gttcccacga gggcacaagc gcgggccgga acatgatctt ggccacacct 660
tcggcagttg tatag 675

<210> 1409
<211> 231
<212> DNA
<213> A.fumigatus

<400> 1409
ttgcattacg caactagctt cgctcccctg ccgtgtaaga caaacaccat ggaatacagt 60
cacatgcaca tgaacatggc ttttattcat attccgcttc cagaataccg tgactcctcg 120
aattactata gaggaaattg gtcggaggct cccaccgcac cggggttcaa ctctggtttc 180
aaagacgctc tagaagagga aggaattttg ttcgtgagct gcggacagta a 231

<210> 1410
<211> 276
<212> DNA
<213> A.fumigatus

<400> 1410
cttattacta gcgatcatgt taatgattac tgcatgctta acaaagaccg agaccagaag 60
ccgtctctct ggatgtgcta cggaggcggt gctggttttg gaggctacgg aggttatggt 120
ggctatgtcc gtcgcgtccg attctatgat tttgacatga accccggccg tgttgtgacg 180
tacaagcgac ttgaatacgg cgaagtagag gccaaaattg acgaaatgat gatcattgac 240
ggaggcgcag tgaagggacc tgacgaacac cattga 276

<210> 1411
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1411
agaagcttta gtctttggta cagggaactt ctcagtttca aagtctggtg tctaatctct 60
accatcatga aagttaatgc tactttgact ctgctgctgc ttggcctggc agttgcttct 120
cctgcctcgg aacccaacag cgaagacagt cttcagggta tgtctcattc tctcatctca 180
gggttgatct ataacgctat tacatag 207

<210> 1412
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1412
tattaccgcg atgactcctc ttctgcggat tggaacatct caattagaat ctacgatact 60
ggatgcaagt tctgttgtca tcgtaaactt ttttgccatt tcatttataa taaactctcg 120

gacacctctc catggctcaa cgtctcacta gagagcaaga cccgaactaa gaagcgagca 180
attgaccggc tctcatgtga cacccaaaag gttcggtga 219

<210> 1413
<211> 795
<212> DNA
<213> A.fumigatus

<400> 1413
cgcaatcgcg gtccctccat gccggtggtg aaggcccttа tatatccgca ggctcaaagt 60
ggcgatttcc ctcatctcct gatgtatggg ccgtcgggtg caggcaagaa gactcgtgtg 120
attgcgacgc tgaaggagtt gtacggctcg ggagtagaga agatcaaaat tgacgctaga 180
gtcttccaaa ccacaagcaa tcgaaaactt gaattcaaca tcgtatcatc cgtctaccat 240
ctcgagatca ccccatccga cgttggcaac tatgatcggg tggtcatcca agagctgctc 300
aaggaggtcg cgcagactca gcaggttgat ctatctgcga aacaacggtt taaagtcgtt 360
gtcatcaacg aggcagatca tttgactcgc gatgcgcaag cggcgttgag acgaactatg 420
gagaaataca gtcccaacct aagactgatc ctgctggcaa atagcacgtc gaacattatt 480
gctccgatcc gttctcgaac cctgctggtc agggtcgctg cacctacgga ggaacaaatc 540
tgctcggtat tacagaacgc tggtaaaagg gaaggctggc cggaggcccc tggactcaac 600
aagagaatag ccaaggagag cgatcgcaat attcggcgag cgcttctcat gttcgaggcg 660
atatacgctc agacgtgggt gctcagtgct atatgtgatt gccggtgtgt aactaacaat 720
gctactcaat cagggagaag gtcacggaca acacgccaat tcccccgcct gactgggaag 780
ctcttatctc attaa 795

<210> 1414
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1414
caatgctact caatcaggga gaaggtcacg gacaacacgc caattccccc gcctgactgg 60
gaagctctta tctcattaat tgcagacgag atactcgctg agcggtcacc ggcccgtttg 120
ctgcaggtcc gcgcgcggtt atatgacctc cttacccact gcataccacc tacgacaatc 180
atcaaggttt ga 192

<210> 1415
<211> 867
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (64)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1415
ggtgaacgca tgcgcggatc tttccggccc ctgtggtgga agacgactca tgcagattat 60
ccgnaaaaga agcgacctcg tgtagacgat gattctcact cttccgaggt ccatgatctc 120
gtgcgtcctc ggccgctctc atggcgccct tcggctccgg tggagccccc gttgcaagct 180
gcccagcttc gttctcttgg agtgctctcc atactgaatt cccccacaaa atctgctcct 240
ccttgtctgg tatcttcggg gggagataac ctgagtctgg tcagacatca gtcgtctgcc 300
cctccatgtt ctccttctgc acctgcttct catgtccgac tgcattcatc gccaacgctt 360
cgtctagctt cgccctcgat acatcctgcc aaacagcaat cgctctcccc tggttcggtg 420
aaccgtcaga ttctctcgcc tgtctccccc acatctcggt ttgtcggagc cggagggccg 480
tatgctagaa agcacagtgc tatgcagtct cccctagctc aggagtcacg gccgggattg 540
tatccgttgt cctctgggtc gcctctgccg ctggaaaatg cgacagtgaa cccgaatcat 600

gggcccgaaa ccatagcccc agtacccgtg tccatccact ctacccaacc cttccacagt 660
cgggggacga gcgtgaaccc gacccctact cccaactccc aagagaggag ccccacgact 720
cctctttcca tttatggtac gctcggtcga tcatcgccag caatcgtggg gatgcccatc 780
tcacaatctg cgccagcgtt cgccaattcc caggtatacg gaacgtccga aacggtcagt 840
cgattgccat ctgttgtcgg tgaatag 867

<210> 1416
<211> 225
<212> DNA
<213> A.fumigatus

<400> 1416
cgctgcagcg caaaaaaagc cggcgtgacg ttattcgtaa cccttcccgg caacgagcgt 60
ggttctgagc ctatcgcgac catcgccaag ttgaagacac atgtctacta caaaggaaac 120
ctagtgatga tcgctaagct tgcgaatgtg gtctcggtct atgtgcctgg caagtgtcct 180
gcctggacgg tagaggttgc agaggggatg gtctatctct ggtaa 225

<210> 1417
<211> 336
<212> DNA
<213> A.fumigatus

<400> 1417
agaaataaga gaccattgta ctcgatcctg gcctgggctg atcatttacc tagtgtcaac 60
aataacctgc acatctcggt atcaatgcca tgcattgaag ttggaacaat cggcggcgga 120
accatccttg aaccgcaagc cgccatgctt gatctgctgg gtgttcgagg tgcacatgcc 180
accaatcctg gagataatgc ccgccagctc gcccgcattg tcgctgccgc cgtgctggca 240
ggcgaattaa gcacgtgtgc tgctttggcg gcgggccatt tagtcagtgc tcatatggca 300
cataatcgca gtaaagtggc ggcgaagact ggatga 336

<210> 1418
<211> 315
<212> DNA
<213> A.fumigatus

<400> 1418
agacagctag cctggaactt gtctgctcat tcaaaagcat ggcatcatca aaattactcg 60
cactcaaagc tccctccggc gctcgacaca aaagacgtcg acgcagaccc cgtgcccctg 120
cacgtcaaac agcacagcca aagcttgccc ggcggcgact tcacaatctc cacctatccc 180
acggatgact ctccgctcgg aacgaagctc ttctccgtga aaggcgattt cggctggttg 240
agtagcaaac ggcatctcag cgatatctcg ggcctcccgc tgtttgacgc tgcagcgcaa 300
aaaaagccgg cgtga 315

<210> 1419
<211> 252
<212> DNA
<213> A.fumigatus

<400> 1419
aggtctcttc tattagtata tttagttagt aaactagcag tatgtttaaa gactgattta 60
ctagctaact ataacttcat ctttaaccta ctagatggat taaccttaaa tagagccact 120
atatacacgc atataattaa ctataagttc tcctttatta aagtctgcaa tgaaacacct 180
actctaatta taattactta ttatacttat atagggacta tctctaatac taactttatt 240
actgcctact aa 252

<210> 1420

<211> 705
<212> DNA
<213> A.fumigatus

<400> 1420
ttcaagtgta acagatccga ctggcagctt gacataaaat ccctcgagtt ctatgaggca 60
tcttcaatca atgccgctct gaggtctttc tcccattcta tcaatttcag acgcactgcg 120
gacatcaacg acatctcggc aaagccacag aggaaggtcg tctttccagc ctctgccccg 180
gtgtcccggt ttgtcgaaaa gacagcgatc aggtaccggc ttaagaacac caagtacatc 240
ctcgagatcg cccgttacga tgagtacagt cgcatgactc tgccagggta cgggggacag 300
agccctgccg ccatcaccgg tccaatctcc gaggttcctt caagttcttg gggtgcatcg 360
atcttcgatc caaattggga caacttgctc ggacagcacg cgaatatacc gctcggacat 420
actgcaagat acagtcccag tttgaacacg ttctttccat ccatagaaga gaccaccgga 480
ggcaaatgca aaggattctg ggagctgatt gccttggtaa gacaggttgc agagcttcta 540
ggctcaacga atactgccgc tgaaaacggg aagcagcgag ttcctaagag tccttcgagc 600
gagaagtctg atgaagccgg tactgcacgt caaaaacacc agcagttcaa caacggccct 660
caaatgcgtg tcttgttgga tgcagatctt ggcacattgt tctga 705

<210> 1421
<211> 783
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (737)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1421
agtaaaccag ctgagcccca aggccagccg actaccactt cggactattt tgcgtcctca 60
aaaaggaaca ccaaacctgg caaaagcgaa gacgtggcga agactaagga ggtccggcct 120
tctcatactg catctctcaa tggccgtgac gctgaggacg cttctgaaac gaagaacaaa 180
aagaccctcg accaatcacc cagacaaagc tctcgcagga cggccaataa gagcacagtt 240
gttctacaag acgacgatgg cttaggaaat gatgacattt tcgcgacaga ctatcgaaaa 300
ccaggtcaat acgacgacga ctacgttgaa gaggatgagc acgacggaga cgatgacttt 360
gagaaaatgg aagtcaaacc agccagtgcg gcttccggcc agtcgtcgcg cagaaagaac 420
gccaacgcag ccgagtcagc cgacgtggcc atgaacgacg caccagcaga gcccaaaagc 480
gcctcgcgca caggccagaa acgaaagtct gcagccattg accgggatgg agattacgag 540
gattgtaaaa cctcgaaagg ccctgcgcgc acaagagcaa tcccatcagc tcccgctgcc 600
aagaaacaga gaggagtagc tactaagaag gacgagccag agagcaagga aatccaggat 660
atattcgaca gcataccgac catcaaacca ccttccccac caccgccatc aggtgagaag 720
gcgaaattta attttgntgc tacgcacaga tgccgagatc ctgtagaaat tcgccacggg 780
tga 783

<210> 1422
<211> 831
<212> DNA
<213> A.fumigatus

<400> 1422
aatcacagta ggcgatttga cagatggaat ggccgccttg tcgataaagc ccgagggaac 60
aggttatttc ggttcgtatc ggatcgaaac gaaggaaatt tcagccgtct gctaactccc 120
ttcacaggcg catcttccag tgtggtgcct cttcgagcat tattgaagca tggtttcgat 180
ttgaattttc ccgcaagtcc gaacaagcca gcggaaagag tgcctcttaa aagccagctt 240
ctgagcactg caccttccgg gctcattgag caagctttca tggacgcctt ctttctcaat 300
taccatacca gttatccatt cgtacacgaa gctactttca aagcgcaatt ctatgaacaa 360

gttccccgcc cgcatggaca ggcgtggcag attcttctca ataccattct agcccttggg 420
gcgtggagca tcggagatga taactccgac cttgatatca cattctacca ggaagccaga 480
agccacctgc agcaggtgtc tgtttttgag acaggaaatc ttactctcat cttggccctg 540
ctactcctga gtaactatgc gcagaagaga aacaagccga acaccggctg gaatttcttg 600
ggcctggctg tgcgaatggc catgagcctt ggtctgcaca aggagttccc agggtggaag 660
atcagtcttc ttcagcgaga gatgaggagg cgattatggt ggggtgtgta tatattcgac 720
agtggtgcgg cgaaaacctt tgggcggcct atcctcttac cagaggacag tgtcatggat 780
gcgaaacacg ttctcaacat tcacgacgag gtataccaat cccctccata a 831

<210> 1423
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1423
gctctcacat caacgaccac cgtgctaccc actgaggaga acggaccgac tatctactca 60
ggcatgatcg cacaggcgaa attccaccta cacaccaata gcgtgtacca gcgtctgata 120
tcaacaccaa gtctaaccgc ggaggagaca ttgggtctct ccaaaccaat ggaagactgg 180
tacgtcttac accagacggg ctgcaaggac atgcgatga 219

<210> 1424
<211> 216
<212> DNA
<213> A.fumigatus

<400> 1424
cttaccaaca cagaatatga aaatctttta cccaacggca aaacggatca atacatccag 60
tgtaccagac agcgcctaga tagtcctgtg aaatatcact ttttcgtcc gaaaacccct 120
ggtggtcgag atattctctt cctgggctct ctggagctag agacaacaga cgaccggctc 180
tacacacgga agtccagcac ctgggctgct tcgtag 216

<210> 1425
<211> 528
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (42)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1425
agcttgtgca tttcttaccc ccatattctc attacagggg cngaagccat ggtcatttta 60
cctgttaaga gtattttgcg ggtcatcagt tcttccatct tatttctcag ggtcctgttt 120
tggggcaaga cccaccaaac tcaggaatct ctggatctac tagaccaggc tatagctgtt 180
tggacctccg atcttctgga cgatatatac cttgtttcgc ggtatgcagc cttgctaaag 240
attcatgtct cacggctcgg cagacccttt gccaattgca gcaggttttc aagcaaaggc 300
gaatcgtata cccaagagcc tggtacacca gtgcccacag ctgctgaaag attcgactgg 360
gatcccagta tgatggattt aggtgaggcc aacggctcgg atgactggtt gtcactcctg 420
ctagaccctt tgatggcgcc gtttgggtct tgggacaatg gactcacaga tctgggaacg 480
gcctcaggcg acctgaattt ggatttcgtc tggaacttgc ccccatga 528

<210> 1426
<211> 219
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (156),(163),(201),(204)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1426
cacctattct taatttcttc catgtgcctg ttcaaccaat atacccacat aacatctgtt 60
cctaattttc cctgctctac tgaattgtct ataacaacga ccgaagcatt gggaggcaag 120
cataaaaccc aaatacccgt ttatacctgg agttgntact gtnttaaccg gccgggatgg 180
ccggaaatgg gctcaatccc nccngattcc gccgccccg 219

<210> 1427
<211> 1449
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (411),(419)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1427
ggcctcttcc ttcgtctgct agattcaaat atcgtgataa acctaagaga ctacagcttt 60
atcaacacca tcaactttta ctccaagttg aagcaagata tctcactcct caaactcaca 120
atcagcgctc caacaatgta cgaactcctt gcctttataa ccataccttg ggtaattgct 180
caccctcggt tattcatggc agtagcagct gccacgacat acttcatgca ctcgactggc 240
cggacctttc acaacgtaca cgcgaacatg gcctcccagg taactggcat tctgcccgaa 300
gaccttcgaa gagacgacgt tctctccaac cgaatgacgg tagtctttct tcatctgttc 360
gtcttccggt atttgcgcct catcgtccat cttatctcct tctggctctt ntaccatcnt 420
acccctgtcc ccaaaaaccc tgccctttcc ccatctgact gcacaatcat cctccccacc 480
attgatccca agaacagaga ctttgaagag tgtatcacct cgtgccttcg gaacacacca 540
ggtgccatca tcattgttac tgttggagac caactgacga agctgaccaa agacatcatc 600
gccccctaca agcggatatt cccgaatacc gagatctctg tcagaaccgc cgacgaagct 660
aacaagcgcc gacaggtcgc gcatggcctt cgatacgtca agacgaagat caccgtcctg 720
ctcgatgatc acgtcgtctg gcctaccgaa cgcttcctcc cgaccatcct ggcgccgttc 780
gaagacccga aggtgggcat cgtcggaacg aacaagcgtg tccgccgtac cgacacaggg 840
ttcaacatca gatcgttctg gaacatgctt ggtgcgctat acctggaacg acacaacttt 900
gagatccgtg ctactaacgc gattgacaat ggcgtgtttg tcgtttccgg ccgcacgtct 960
gcgcatcggt ctgagattct caaggatccc aagttcatcg ccgagttcac gaacgagaga 1020
ttcttcttcg ggctgtttgg tcccctgaac gcggacgatg acaacttcat cacccgctgg 1080
gacgtccgac acgggtggaa ggtcaagatc cagtactgcc ccgacgcaat gatcgagacg 1140
accctgggta cgtatcccaa gttcctctct cagtgtctgc gctgggtccg aacgacctgg 1200
cgcagcaact cggccagctt gttcactgac aggacggtct ggtataccca gccatggtgc 1260
gtgtacgccg tctactggac ctcgttcgtc aattttgcct tgttctacga cggtgcgttg 1320
gcgtataccc tgctcaaaag tccgctcgga accgctgata acctgaaata tctcgcggcc 1380
tggatcttct gcacgaagat ggtcaagcta acgccgtact ttctccgcga gccccaggat 1440
ctcgtcatg 1449

<210> 1428
<211> 1284
<212> DNA
<213> A.fumigatus

<400> 1428
aacccttgga cccgggcttc aaggaggcga tcccctcggc ccaaggggggg gaagtgttca 60

ccccgcccaa atacgcgggc ggaattcggg atgtttggtg aatggggccc ctcccccccc 120
gcaatgtttg gaattctgcg gccgagactt caccggtcgg ctgatacgcc atcttttctt 180
cgacctgttc cgcgttttgg gagcccgtta gacaccattc ccaaacgatc ttcatctttc 240
ggtcgctgga cagaacagca acggcaaaac gaccggtcca tggtctcccg acccagaaat 300
atgggcgaga cagccgagac gacggatcca ggttctccca tgaccgtccg tccgcgcacg 360
tctctggacg gtgacctctt ccagccgagt cgcgagggtc ttttttttcc gcgacctgca 420
ccagtcagcc ctctcttctc atcacatggc gcgggggggtg caggacaggt gcgtcctgct 480
gcgcatcctc tttccagaac tattacacag tcctcgtcca attcaagttt ggcagacgac 540
tcgcctactc atgagcccat gcataagtcc gagcggccgc gcggcgtctt cgatttctcc 600
aaatctcttc ctgcgggtgc gacacgacct ggtgtcgtac gacacctaaa tcgtgaggac 660
tcgacatcat ccgtcgactc gtttgcgaca ccggagaatt acaaactggt caaacctctg 720
ccagccgcat tcatgtcaac aggcttaatc tcgaagaaga atcgtaatgc aggagatcac 780
cagaacatgc tcggtttcaa caagaacatg cctgatacgc cttgcaagcg acccatcaat 840
ctgtttccca cagggcagaa gccgatgtcc gagtgggaac gccctcgatt gatgcctcaa 900
gcggatgtcg tgccatctcc ctccccatcc aatcccccca gcgcgcgccc cacgtcgggg 960
cctttcgcac ggggcatggg tatctttggg aactcattta acaagccaga cctctcgcgt 1020
cgaggcagcc tcgtgagcgt ggacggtgat gagctgaccc agtctcagtc gccttgcgct 1080
cagccggaca gtcagccatt gagcgaatac gatcttccgc cgactccaac gaagcaaact 1140
ttctttccct ctcgaaccta tccgcctgcc acgcagcaga ttgcatcctt ggaacgacta 1200
tccgaagtac tcggaaacaa ctcaagtcct ttgcacgaca ggttccagcg gtcttcacca 1260
cggggctgga aagagcgcgt ccat 1284

<210> 1429
<211> 876
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (113)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1429
atttatgtgg ggccagtttg ggaaagaatt ctctcccaca tcggtggagt ttacaatatt 60
cccaactttc acgtccgtgg cggtgtttgc cagacgaata ttgtttccaa cantgccttc 120
cgtgggtttg ggggcccgca gggaatgttc tttgccgaat cttttatgga agagattgcg 180
gatcatcttg acattcctgt cgaacagttc cgacagcaga atatgtatca gccgggagac 240
aagacccatt ttcaccagga gctcaaagac tggcatgttc ccctgatgta taatcaagta 300
ctggaggaaa gcgcctacgc ggaacgccgc aaagccgtgg aggagtataa caagaaacac 360
aaatggtcca agcgtggaat ggccatcatt cccacgaagt ttggcatttc cttcacagca 420
ttgttcttga accaggcggg cgcattggtc catatatatc acgatggcag cgtcctggtc 480
gcccacggag gagttgaaat gggccaagga ctgcatacaa agatgacaat gatcgcagca 540
gaagcacttg gtgttcctca gtccgacgtc ttcatctcgg agacagctac aaatactgtc 600
gccaatacat cctctacggc agcgtccgcc agttcggacc ttaacggcta cgccatcttc 660
aacgcatgcg aacagttgaa cgagcgcctg cgtccgtacc gtgagaagat gcccggggcc 720
agcatgaagg agctcgccca tgcagcctac ttcgatcggg ttaacctctc cgctcaaggc 780
ttctaccgta cccctgatat tgggtacgtc tgggggggaga acaaggctca aatgttcgtc 840
ttctaccacg aggcggcaag gatccgcgta ttgggg 876

<210> 1430
<211> 528
<212> DNA
<213> A.fumigatus

<400> 1430
tgcgcaactc aaaaccatcc tcttccgatt tactcccatc gatttgcctc ctccgcaact 60

tatagcctac tctcctcccg cgcggtcatt gaccaccgca tattgatttc tcggattgca 120
atcatgacag acatggtcgg aggacagagc gacgatgtcc accaggtgcc gcctcctctt 180
ccaccggccc ctatggagaa ctacaccttt cctgaacatc gtttgaagcg caagatggac 240
gacccggaga agacccctct gctcctcgtg gcttgcggtt ccttctcccc catcacctac 300
ctgcatcttc gcatgtttga aatggcggcc gattacgtta aattcagcac ggactttgag 360
ctcatcggtg gatatctctc acccgtttca gacgcgtatc ggaaggctgg tctagccagt 420
gcggaacata ggtatgaaat ctcgcggcta ttctatccgc tcgttcagac tgctgacgca 480
atgtgtctta tgactcatca gggttgctat gtgccaactt gcggttga 528

<210> 1431
<211> 396
<212> DNA
<213> A.fumigatus

<400> 1431
gcgaaatttc ccccctcgt cttgcgacca tctgttaatg agtccgccca tgtagcctgg 60
cctattgccg acgaggccct cacccagaac ctcctggatt tggtgcagca agcttctcac 120
taccgtcagc tcaagaaggg tgccaacgag ggtatgcctg tctggttatc cttttgtctt 180
ttgttcttga ctgacattct gcctcagcta ccaagactct caatcgtggt accgccgaaa 240
ttgtcatcct cgctgccgac acctcccccc tggctatcct gcttcacatt cctcttcttt 300
gcgaagataa gaacgtacgg tttctccttc cgatatactt ctctactccg gtcgaatact 360
aactatcaat caggttcctt acgtgtacgt tcctag 396

<210> 1432
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (120),(219)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1432
gaacgtacgg tttctccttc cgatatactt ctctactccg gtcgaatact aactatcaat 60
caggttcctt acgtgtacgt tcctagcaag ctcgctctgg gccgtgcgac tggtgtctcn 120
cgtcccgtga ttgcggccag cataaccacc aacgaagcca gtgacctgat gggccagatc 180
agaaccatca aggacaaggt cgagagactg atgatctana cgtggtttcg atctgtggat 240
gagtga 246

<210> 1433
<211> 345
<212> DNA
<213> A.fumigatus

<400> 1433
aagttgtctc tctttttcta tcgtctttcc cttccagtcg ccatcacaat gcccgtcacg 60
gcttcccgtg ccgtgctgcg gcaatcgcag ttcctgactc gcagaaccgc ggtcagatat 120
gcctccaaca cttctgaggc tgcctcaaag gccagtcaga ctgcctcctc tgctgtctcg 180
aaggcctccg agggtctctc ccgtgtcact tcgacggctg gtcctgcgat ctcgaacgct 240
gctcagggtc tcggtagcgc tctgaggaag gtcggtggaa gaaccgggaa ggtcattgcc 300
tttgtgtctt cacccacggg gctggaacga tccgcgctat gcgac 345

<210> 1434
<211> 294
<212> DNA

<213> A.fumigatus

<400> 1434
cgcggctcct tcgagccccg tggtgaagac tattcaggcc agaacggcaa gaaccagcgg 60
gttctgacgt ggcttgcgag cgactctcgg accgatcctc aggcgaaggg gaaaactacg 120
gaatcgttca ctggtgatct cttacctctg atcaccgatc tgtactccat gactggggag 180
gcttacccgt ccaaatccga ctacatgggt atcttccagt tcggtaccga ggctttctca 240
tcaagtacga atgtcacgtt ctgggcaccc aaattctctg tagatctgcg atga 294

<210> 1435
<211> 1122
<212> DNA
<213> A.fumigatus

<400> 1435
ttccgtgctg cctatgcgct cggagttctt gccagtggct tcgctgataa cttggatcag 60
ttgaaggagc tgtgcaccaa ggctttcgcc gtcagccccc aggtcctgat cgaaaagagt 120
atgaagggct ggaaggaaat tgagtatgag gtagtccgtg attgccagga caactgcatc 180
actgtctgca acatggagaa ctttgatcct ctcggtattc acactggtga ctctattgtt 240
gttgcacctt cgcaaactct gtctgatgag gattacaaca tgctgcgtac caccgccgtc 300
aatgtcattc gacaccttgg cgttgtcgga gagtgcaaca ttcaatatgc tttgaacccc 360
ttctcaaagg aatactgcat cattgaggtc aacgctcgtc tgtccagatc ttctgccctt 420
gcttccaagg ccaccggtta tcctcttgcc ttcatcgccg ctaagcttgg tctgggtatt 480
cctctcaacg agatcaagaa ctcagtcact aaggtcactt gtgcctgctt cgagccctct 540
ctagactact gtgtggtgaa gattccccgt tgggatctta agaaattcac tcgtgtgtcg 600
acccaacttg gctcttcgat gaagagtgtt ggtgaggtta tggccattgg acgtaccttt 660
gaggaagcga ttcagaaagc cattcgctct gttgacttcc acaacttagg gttcaatgaa 720
accaatgcac tgatgtccat cgatcaggag ctccagacac cttcagatca acgtctattc 780
gccattgcca acgccatggc tgctggctac agcgtcgacg acatctggaa gcttactagg 840
attgataagt ggttcctcgc cagactcaag cgcttgagtg actttggcaa gctcatgagc 900
acctacaatg caactactgt tcctcgtcct cttctgcgcg aggccaagca gctcggtttc 960
tctgatcgcc aactcgccaa gttcctgagt tcgaacgagc tgtccatccg gcggctacgt 1020
gttgaagctg gcattatccc cattgttcag cagattgaca ccgttgctgc tgaattccct 1080
tcaatgaaca attacttgta cctcacatac aacgcatctg cc 1122

<210> 1436
<211> 924
<212> DNA
<213> A.fumigatus

<400> 1436
ccgagaaggt tttcgcgcaa agccaaattt aagcccggcc ccaacctggg gagtttttac 60
ccaaacccct taggccaaga gaggccagtt tttttaaggc cgccccctgc ccaaaggctt 120
gttaaaatgt cagccacccc ggacacaaga cgcccccgac acacttccgg cattgacggc 180
acaggcacac cggcaaccag acacaaacag tgttcttacc ggagcttcac cccttccctc 240
ccgggaatag aaccgccctt ggggccccta accggtgcag ggcacaatgc gattgtcggg 300
ctcctgaacg cgccgtccct gcggcagctg aagacacaca tccagcgcgc ggaggagaaa 360
ctgactgatt cggcggggga ggtcaacgag cggcttacgg atgcgcgggt gcggtatcag 420
aaggagaggg cgcggaagcg gcggaaagcg aatggggaga tgcctcttgc tgaggggtc 480
ggtgcaaagc aggagaggga ggatggcagc gaggatgacg atgatgatga cggggaggag 540
agacaccggc ttgcgcggtt ggaggagcag gttcagagtg ttacggagga actggaggct 600
cggatgcggc agacgattga tgcggaggtg aagctggagg gtttgaaggg ggtgctggcg 660
gatatggcca aggaggcgga ggaggctact gttgcgggtg ccggggctag gactgctcaa 720
ctgcggagtc ggcggacgag acggagacaa ggcgatgacg aaggggatca ggaccccgaa 780
gaagagggcg atgaggacta cgaagcgacg cccgagccgc agatgcctgg tatcccgcct 840
agccggcggc tagaacagaa gctggatgag gagtcggcgc ggtgggcagg tcaatccttg 900

actcagaggt acgtacttgc atag 924

<210> 1437
<211> 456
<212> DNA
<213> A.fumigatus

<400> 1437
ctcagaggta cgtacttgca tagccccatg gctggacgaa aggaagaatg gccgaaatta 60
aaaacataca gatactccac gaacaatgcc tacatcggct tctaccgcat cgtccacgac 120
gccaaacacc ccggcgagga catcccaccc ctcccgcact cctccacttg gttcgcgcac 180
atggaagatc cccacgcaac cacaacctcc accaccgagc agacatcggc ccgacgcacc 240
cgccaacgcc ggagtccttc gcccgctgac tcggacgaga tcgccatcga gcgcgagcgc 300
atctctctca gatgcccccc caccctcctc cccttccggg accccgtcac cagcaccaaa 360
tgtccgcaca gtttcgagcg cgaggccatc accgatatga tagcacacag tcccacaact 420
gtccctgtct taaccgcggg gctggaaaat cacgcg 456

<210> 1438
<211> 540
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (183)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1438
aaaatggacg gggtgggcgg ctatgccggc tggcgctgga ttttcatcct ggaaggactt 60
ctgacagttg ctgtggccct tgtcgccccc tttgcgattc acgatttccc cgagacggcc 120
acctttctga ccgaggaaga gcgccgatgg gtgattcaca aactgcggtc tcaatccggg 180
cgngacacca cacaagacgg gaccgaccat gaggaatcgc gattccgcgt acgctatgtg 240
cttgatgcgt tgacagattg gcaaatctac gtggccttgt tcagtatgct tcccctctgc 300
gttgcgcgac gacgactggt tggactaatg gatcagtgta ctggggaatc accacccctc 360
tctacggtat ctcgtacttc ctgccatcca tcatcaagga cctcgggtac aagtcttcaa 420
cggcgcagtt gctcacggtg ccgatttaca tcacggccgc cattgtggct atcgcatcag 480
cctggctgtc ggatcgtcgc aagcagcgat ctccattcat tttcttcttc atgtcgctga 540

<210> 1439
<211> 429
<212> DNA
<213> A.fumigatus

<400> 1439
tgcgttgaca gattggcaaa tctacgtggc cttgttcagt atgcttcccc tctgcgttgc 60
gcgacgacga ctggttggac taatggatca gtgtactggg gaatcaccac ccctctctac 120
ggtatctcgt acttcctgcc atccatcatc aaggacctcg ggtacaagtc ttcaacggcg 180
cagttgctca cggtgccgat ttacatcacg gccgccattg tggctatcgc atcagcctgg 240
ctgtcggatc gtcgcaagca gcgatctcca ttcattttct tcttcatgtc gctgattgcc 300
atcggcttca tcattgtcct tgcctccact ggtcggggag tgccaggggt tgtctacttt 360
ggtgttctca tcgccgtcgt cggtaagttt tttgcccacc aacaacgcac ccgtctgaca 420
agacaggga 429

<210> 1440
<211> 195
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (153),(170)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1440
gatcaatctt gtatcgtaga tcctcgtata tcaccctgtc tggcacgcag tgatccgttt 60
actggagagt actgcagtcc gcttgcacgc caggctttca tggattacac tgagatattc 120
cgttatcaga tcggccctat ggggtatgta gtnttgaccg cagcggtagn cgatcaggat 180
ttggttaaaa agggg 195

<210> 1441
<211> 339
<212> DNA
<213> A.fumigatus

<400> 1441
tgctgtcgtt cattggtctg ttctcccagc ttgggagggg ccattggata cgctgtggcg 60
gctgccatct atacaaacgt cttccctggc gcccttgagt ctcgtctccc tgcggacctc 120
aagtccaatg ccacgtctat ctacatgggt ggatacactg tacagcagac atatccgatg 180
ggctcggctg ctcgtgacgc gatcaactat gcctggggcc gaagccagag gtttggcgcg 240
gttgctgcta cttgcattct gattctggga atccctgcca ttgcggtctg gaagaactac 300
aatgtcaaca agcaccagaa caaggggggtg atgatctag 339

<210> 1442
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1442
gagacactct cgaacaaacc acttccgaac accatgtccc gcgaagctta tcaggtcccc 60
tcactcggcg cccagaatac ctttggcacc gagggtatgg ccgctggctc gatggatggg 120
cctgtcgtcg cctatttgtg cggcgaatgc aatgcgcgcg tctccctgaa gagaggcgat 180
cagatccgct gcaaggattg cggtcaccgt gtgctgtaca aggagagaac gaagaggtga 240

<210> 1443
<211> 237
<212> DNA
<213> A.fumigatus

<400> 1443
tctgcggact cggatagcga gggatctgtc acgacggagc cggtttctgt cctgtcaagg 60
gataaccaga ttcatgagtt tttgaactat tggtcagaga aggttgatat acccctttcc 120
cggctcgcgt acacgtccta tcgcgaagtg gagagcgacg tgggtaagac gaagaatgcg 180
cccaacgaaa ctgctcgtgt tgtggaattg gcaggaaaga tcggaggtgg ttggtga 237

<210> 1444
<211> 951
<212> DNA
<213> A.fumigatus

<400> 1444
agaaagcatg tcattcctgg agacaacaga ctgcagattt gtctaacatc atactcctct 60
aaatcaagat tgtgtttaaa ccttcgttat ccatgcatta agtcccagct cgatagtact 120

tgcggattaa aaagttcata tgagacgtgc agagagcatg ccactatgtc caagcaagac 180
agccttctca ctagaaaggc tttggcatca tcggtgtcag ggactacgct tttggtcatg 240
atccagttgg tttcgcggct gttcaccttt gttgccaatc aactggtcct gaggaaccta 300
tcaccagcga ctctgggagc agcaactcaa ctcgagttgt tcatggttac gatcttatac 360
ttctctcgtg aggccatcag attagccatt ctgagacagc ctcttgattc gccatcatcc 420
cccgatatca gcaaacaaga gaagccgcgc atagcttgcg acaaggaaat ggaagctcaa 480
tccatggcga ctcaatcaat agtgaacatg tcctacctca gccttgcagt tggaattgcg 540
ctttctatct tgctcggtac tttctacata cagtttgctg ctgagcaggt tgctcaaaca 600
tctttctatc gctgcagtgt ggcaatcgtc tgtctcgcgt cgaccttgga gctatgcact 660
gaacctttct ttgctgtagt ccacagatat atgctgtaca agactagggc aaccgttgaa 720
atggccgcag cattcgtaag aagtctaaca acgtgtggtc tacttctctg ggcatcttgg 780
aatggaagca atgtcggtat acttccattt gcacttggtc atctctttta tgccttggtg 840
cttctctgcg gctactctgc aactctgtca aactcagcga gtagatggca tttttcgttt 900
ctgcccagcc gcataagatc aaggtatgtg gaggtcatta ctatcaaata g 951

<210> 1445
<211> 537
<212> DNA
<213> A.fumigatus

<400> 1445
ctttatcccc ccccaaaaag gctcatggag agtgatggta tcaaagtcaa cgacactaca 60
ccgcgcgccg cacaagactt gcgatttaca ccttcttttg tcgacccgaa ctctctatcc 120
tatatgaact tcccagccca acagagtggg tattacacac cgaattcgga aggtttgggg 180
ccattgtttc atagccaagc tggagaccta cacacgcccg gcatgagcat gatcacacca 240
atgtcccttа cccaacaact acccggccca accttaaccg ctggtggcca ggcatttagc 300
ctggaccact atgatcagca ctatatcaat ccacattttc acaacccaca ggcattcgcc 360
ccacaaccgt ctttcgcacc cagcgcattt gttcaccgcg attcaggcta cgacgctatg 420
gatgagtctg tggatgaaat gtcgctaaat gatgtcgata ttcagggaaa tacttcccag 480
tttgccactt cagccgcaca tgatctttca gatactccag gatctagtga gaagtga 537

<210> 1446
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1446
acacacgctc gatccttcca gccccgtggt gaagactcac tcacaggtag aaaaaactcc 60
cagaagccag acgatgagtt cattcaacga tttcagaaaa ctttctcgga ggttgtcccc 120
ctaggctcgc aacgcaacgc tcccggtttg gggcaagtgg ctggcaacca gcctatcact 180
ccgtctaggt atgtaatcta a 201

<210> 1447
<211> 204
<212> DNA
<213> A.fumigatus

<400> 1447
ccgttcattc tggttccgat cggatcaccc gatttgttga ccagcacaca tgcgttgtca 60
tcgaacttga caatagttcc atctggtctc tgcatctcct tctttgcgcg aacgacgaca 120
gcatgtcgga tatcgccgcg acggaccttg tttgcgatgc cgctgttgtt tgtgctctcg 180
gggccgaagt ttcgctgttt ctga 204

<210> 1448
<211> 267
<212> DNA

<213> A.fumigatus

<400> 1448
cgaacttgga tcctgatatg gcttcaactg gtaataggtg accggattgt ggttgtggtt 60
cagaaacagc gaaacttcgg ccccgagagc acaaacaaca gcggcatcgc aaacaaggtc 120
cgtcgcggcg atatccgaca tgctgtcgtc gttcgcgcaa agaaggagat gcagagacca 180
gatggaacta ttgtcaagtt cgatgacaac gcatgtgtgc tggtcaacaa atcgggtgat 240
ccgatcggaa ccagaatgaa cggttag 267

<210> 1449
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1449
caatccagga ctgcgactaa tttcatcgac agaggaaagg gtactccccg ccgcaaggtc 60
aagaatgtcc acaagtcctc cggtgccgac gacaagaagc tccagaccac cctgaataag 120
atgaacgtcc agcccatcca ggccatcgag gaggtcaaca tgtacaagga ggacggaaat 180
gtcatccact tcaccgcccc caagggtgag ttcctcactc cagcttccgt ctccgtctcc 240
ccaaatccag aaggtagata a 261

<210> 1450
<211> 216
<212> DNA
<213> A.fumigatus

<400> 1450
gatgctgtcc cgtcgtcgac agccttcttt ttgagagttt cccttctctg cttcacaact 60
acctgtgccc acgccaccat gtctgaggaa cccactcccc atgaccacgg tgagagcatt 120
gccgctcctc cagacctacc accaggatgg aaatacagac agcgccgcat ttttggcttc 180
aacatccccc ggtatgcctc gcctagcgtg cagttg 216

<210> 1451
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1451
ggggttggga agtcccttaa aaactccaca ctcaaaatgc tgttgccctt ggaatatttt 60
aaaatttcca agaacctccc catgaaatgt tcggaaatcc acctgtttaa ctatccggcc 120
tccattatgc cccccattcc gtggtctcta aattcccaag gcccacccag gtggtggcat 180
tttcccccc 189

<210> 1452
<211> 486
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (345)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1452
ctgaggaccc cttacgactg tcaatctcat cagactcaag aggacgtcga atgttgctgt 60
ctggcatgta taaatcggac aagatcgtat gatggattca tggcgtccct gttgaagaat 120

gtagtcaaga acccacccta tgctctattc gccattcccg gactgcctga tattcccatg 180
tggtggtgca actcgtgtac tgcatatttg cgcaaggaat caactcccgt catcaacatc 240
cgtagcggtt ggagtgccgg cctcaacacc gattggactg ccccggacaa gattacaaat 300
actatttcaa accaacagct ttggttttac gggtggtgga ttggnataac ccttaaagga 360
ggaagtccat tggcgaatcc taaccccacc acagaaaaga tctttctttg ttcaaccttg 420
gctaaacacc ggcttatttc ttggattaag ggaccaacct tcttaacacc ctgccttaag 480
gctaat 486

<210> 1453
<211> 600
<212> DNA
<213> A.fumigatus

<400> 1453
atcacttacg atgattccaa gcttgcctct gacctgacta gccgcttggc ccaaatctat 60
cagaagcccg aggcctttat gatggtcact attcaacaag atgcatgtct ctattttggc 120
aactccgcac ttcccgcgta tttgatgaaa gtcttcgcct tgccatatct cattgcgcca 180
attaccaact tgcgaaacac gattcttatt caagcagcac ttcaggacct gcttcatgtt 240
gcgccgagca ggggtattgt cttgtacatt ccaatatctg aagagaactt tgcaacaaat 300
ggagttacta tgatgggtga aatcgcccgg ctagaaggcc acgccgaaga ccaggatgca 360
gggatcctca gaagtatctc acggtcgatg aggcgaagga ttaaatcaaa cagcaccact 420
agtgcacctt tgtctgtggc aactacttcc tcttggactc ctggattcga tccgtgtcag 480
caagagtggc atgatgccag aagaaggaat gtttccagtg aaggggaatc taacacagtc 540
agaaagccta aaagcatgcg agactttgtt tgccccgccg ttctggcctc ggatatgtag 600

<210> 1454
<211> 573
<212> DNA
<213> A.fumigatus

<400> 1454
gacattgcat tcccgtcatt tcctagcctt tcagatcagc catacccctt tggctactcg 60
cgcttcttat ccatttttgt ttttttttt ttttttactt ttgccgggct cggtccaaac 120
tcatcgatgc cttccgactc ctttgacact gactacgcgc agcgcgagag gtctcgctcg 180
ccccgccgac gttctcgcag tcctcgacgg agccgtcgct cgtactcccc acgcagtcgc 240
tctcgcagtc gtgacgatta tcgccgcagt gatcgccggt ctcggtctcc tatgagtact 300
gctcaaggcg caactggagg acattcagga tctggttacg gtggccgcag cagttaccct 360
ccttcgagat cttttgagga acgctcagtc gccaaagaac aaatgatgca atcagtacgc 420
gaatcgtccc aacaggaccg ccgggtctat gtgggcaacc tatcctacga tgtcaagtgg 480
catcatctca aggactttat gagacagggt gagcagggtc atatcgtgtc ggcagtgcga 540
cgcagctttt gttggatgaa aacttgtggc tga 573

<210> 1455
<211> 273
<212> DNA
<213> A.fumigatus

<400> 1455
catccgtctg gtagaaaccc tcacccatcg ggcatagagg tccattcggt gtatggccac 60
atttggtcgg atgacccgta cgccggcgga gtcatgccgg tgcggaaacc gggattcatg 120
ggcaagtacc acgatgagat ccggaaacca cagggaaatg tgcatttctg tgggtcggac 180
tttgcggatg gatggcgggg ttttgtttcg ggcgcttttg aggatgcata tcgcgttacc 240
cgagaggtcg agaccagtct atctatcaaa tag 273

<210> 1456
<211> 654

<212> DNA
<213> A.fumigatus

<400> 1456
agactgtgca gtcacattct ggtctatgtc tcacggacca agaatttcca aaagggtggc 60
aacagctatg acgccattgc taagaagaac gaccagatgt atgctctgat cgcgatctgc 120
gtggctcttc accccactcg tctggacgac actatccact cggctctgcg tgagaagtac 180
ggcgagcagc tccttcgtct ccaacacggc ggtcccgatg ctcttcctct gttcgaggag 240
ctcttccgct ccgcttgccc aaagttcatc agcccaactc cccctgattt tgacaacccg 300
gctcttaaca tcgaccctgt cgaccaccac accgctattt ttatggacga ggtcaagaac 360
accttgtaca atcctaccat ccggtcgtat ctcaaactct acacgaccat ggacttgaag 420
aaactcgccg gtttcctcga ggtccagcct gaggtgctcc gttcttggct gctggtgaac 480
aagcagcgca gccgtcaggt gcgctgggtt gagggtggtc tgttggaggg cgaggtcgtc 540
agcgcgaatg acctcgatta tgcgctggag aatgacctga tccacgtcag cgaaaccaag 600
gccggccgcc gtttggtgga ttggtacttg agaaacttgg ccagagttta ctag 654

<210> 1457
<211> 654
<212> DNA
<213> A.fumigatus

<400> 1457
tcgcttggtg tccgttccgg ccctggtcat attaaccgtc ctggtcggcg tggacaggga 60
cagcaggacc tcgctctgcc cgatcgcaga gacggcggag atgtttccga tatcgaggag 120
gagagtgacg aggacttcat tgatcagtac tatggcgacg aggaatatac cctcacaccc 180
gagcaggctg aggaaggtcg acgactccag aacaaccccc agtcccaaag tggacgtgcc 240
accccgagag aacttacccg ctcctcccag ttcccctcaa gcccgtccgt tcattctgat 300
atgggtcttg ctcccccccac ccggccattc ctggaacctg gcaatcgtct gagcagtgcc 360
tcggtgctgt ccgtcgattc cgtcgttggt gacaagaagg acttcaagct gcaaaaggtt 420
gatcctttct ttaccgacag ccacggtgaa tacgctcgcc tgttcgaaaa gagtctggag 480
aacctgaacg cggccaactc cgagacacag ctctgcattg aagagttcct cgtcaagagt 540
gaaaaagaat ggttcgacaa gttccgggat gccaagctgg gccgtctgaa ctcgcccgct 600
ccatctgtct tccgtgggtc ttcaccacgg ggctggaagg atccgcgggg acgc 654

<210> 1458
<211> 522
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (284)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1458
gcatgcgcgg atccttccgg gccgcctgtg gtgaagacaa caggtctcgt tgactcgaaa 60
ctccatggcc agaggaagac catgtttcaa cgagcgattg acctcgggct cccagcatcg 120
tttgttgagc tgcgtcatga ggcgacccat agagagctac cgtctcttgt ggtattgcgc 180
aatgcgacgc aacgctcatt agagtggctc tgggactatt actgggccaa gacagactct 240
gatgttgcgc ttgcatcagg aaggcctgcc tctgcggtct ctancggtgc cgaaaatggc 300
aatgtagaag aaatcaggag cgtcatcaga accgccctcg agcatccagc gaaccagggc 360
gacctctcag agccaccacg gaagaagagg aagtcagatc agcaatcgtc tttccttgcc 420
gagcagctgg gagcgatatg taaggcgtct agcaggagtc ctcactcact ttctcgagtc 480
ctcattgagg atgccataat tgtaccaaag ggacgaaagt aa 522

<210> 1459

<211> 210
<212> DNA
<213> A.fumigatus

<400> 1459
tcgtccctct tctgtcacct gcattgcgac cacattgact cgacattggt tggcaacacc 60
gattatctgg aaatcctcaa ctctaattat tcaccttgca attacctgca gatcgttacg 120
tggccaaaat ggccacagct gatgtccctg cgcggactca tggttcgtct tctcaagcgt 180
tctgcccctc atgagacaaa cccagactga 210

<210> 1460
<211> 972
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (920),(953)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1460
cagttgatag ttcgcagtgg acgtcgccac ccattttcta gctggatgaa gagacttacc 60
ggtctgaagg gctcctcgac cgattcgggc acaattcgct ggtcccataa acgtcatgac 120
gctcacaaga acaagagaaa caataagaac aacccttacc cgctctccgg taccacgaac 180
gttgtcaggg aatacagcag tgatttcgtg ccctccgtat cggatacaaa tgctgcgaat 240
gggccacgat cgtgctcata tagtgaacct tccattgcct gttccggaca cgacaatcag 300
gtgcctgcga caagtgcaaa gtcaacggct ccgaccatct caacgaatgg ggacaccgcc 360
atctcagagg cagcatattc caagtcagga acgatggcga cagcaggagg agggattagc 420
tctcagggcg gaggcgaagg aagcaccttc tcttcgcccg cgccgtcggt ccgttcgttg 480
acaactacct tgactaccgt gcaatccgcc gcgccatcca tccacttcta caacgtgcaa 540
agtacacatc agggcctagc acatgcgaac tcgacgcaca gcaacgcgag tcaacaagta 600
caattttccc agccatttcc ttcctccccc gcgaccgcag tgccacccca ccttgtccct 660
cacggtcact cccatacata cagcactgcg actgccaaca atatccttac tgacaatgca 720
tccatcctca cccttgcttc gtcttcaaaa cggcgccgca ggaactcgct ggatacgaac 780
gcatcggtcc gcgctctcgc gccgtcctct gtatttggtg ggagtcggga gagcctgcca 840
ctgagcgtgc tcagtgcaaa tgttggagag ccatccaaca cgtccacatt cagtacaccc 900
ggggtactca atcgtcctan catggtgggt cttgctagcg cggaacggat tantgtatac 960
tcagcgtctg gt 972

<210> 1461
<211> 318
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (298)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1461
cgtgtcaact ctacctcatc cttgcaggtt catagtataa tgtaccgttt ccacccatcg 60
gtgaaataca ccaccgccta tccttctcag caggaaattc gcgaccagat cattgacgtg 120
tggaaacgct acggcctcca gaagcgtacc gctttcgaca ctccagttac gtctgtcaaa 180
cagacaaagg acggtaaatg gatcatcaac gacaacgagg aagagtatgg tcgcttcgat 240
ggcgtgatcg cgtctgtctt caccacgggg ctggaagaca gcagactctc agttcganga 300
tgggggggcgg gcggggcg 318

<210> 1462
<211> 402
<212> DNA
<213> A.fumigatus

<400> 1462
actgagtgtt catcttctat ggctcaatca aaagccaagt ccacaattgt ggacttcttc 60
acacatcctt tccttgtggt gttcagttta gtctatatgc tattccagaa tatcctcacc 120
tgggttttct ctcctgctcc gccgcctcca gcatcaactg ccaatggtct tcccaagaaa 180
agagtagctg tcattggtgc tggtttgact ggcgtatcgt ccgcggcgca ctgcattgga 240
catggattcg atgtgcaact attcgaagcc cgtcccaagg ataaaggcct cggaggaatc 300
tggagcgtat gttgtgttct ctatggagtt gatttgaatt ctgctaatgc atgggccgtt 360
agcgtgtcaa ctctacctca tccttgcagg ttcatagtat aa 402

<210> 1463
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1463
tttgaggacc ttcccgtgaa gccgcttact ctgactaccg cccatccgct gcccacagac 60
gtgctattga aacccacatt cagtcctttc tacgtcgtta tcttcaagaa gaatggcctg 120
agtgtctttt gtcaaattat gctagattct agacatgttt acctttcttc tatgcaaatc 180
ttttatcagc tctgtaatta g 201

<210> 1464
<211> 927
<212> DNA
<213> A.fumigatus

<400> 1464
gatggcacaa ttcatccaga aggagtctgg aaaaaggatt cgcatatggg tacttatgaa 60
ccatcagata cgctttctat atccaaagat gtgatcgttc aacactggca atacgggcaa 120
tcggatcctg tcagcctggc aaatgatggg tacattatga tcaattcgga ggatcagtgg 180
gcgtacatgt cgctgaaaaa cgaccatatg cccatatttc cggccccgta tccatacttg 240
ttcaatacct cgcgagtgtt gaacttcgcc aacatcgacg ggtggcagtg gaccccagcg 300
ctcttcaacc cattcaacgt cactgagcaa cccaacaagc aggcagtcca gggcgcaatt 360
ctagccgcat ggaatgacaa cggaccggac gcgacaacac agctggaggc cttctacgcg 420
atgcgcaatg ggatcccgat tgtcgcctct cgagcatgga caggcgatcg aggcccgcga 480
ctggatgaat ctagcttgtc ttggtctgcg aaactgctta ctgcccgtgc ggctggccag 540
aaccttgaca ggagatttac tggtggggtc aatcacaaga cggactcgct tttcagctgg 600
acgtccggca aacaatcagg agaaaggatc cacctcgggt acggcagcaa gggaatgaat 660
tatacactag agctcgacgt cgcggggcca ttcgtgctgt cctccgagga ctgcgctcta 720
agtctatccg catctggtac tttggccttt acatccgacg gatgggagta cccgcttcgc 780
tctgtcgccg aaaacccgga ttcgaccaat gtattcggga acgaattgga caaacaaaac 840
tccctccacg ctgaaacccg tccaaatcct ctcccacgcc gatcattatt ccgcaccaaa 900
gttcttggaa gggaacacaa tctgggt 927

<210> 1465
<211> 555
<212> DNA
<213> A.fumigatus

<400> 1465
ttattcgccg gccaggcgtt gagtgaattt gcagaatatg cagataagca gcagtcgcat 60

cgctcggccc aggtggcccc gagcgatagc ggctactcga ctgcccacgc caccgaggac 120
cacgcggaac tggatatcct tgaccaactc acactatccg ataccccgaa gacggtcaag 180
ttgaaagatc tactgctcgg tacgggtgaa gaagcagaag atagtctgca gctgctgggc 240
agtatcctgc aggcccggat tgacgagggc catggggaga ccatcttcga cttgggactt 300
gaggatggtg gcgactcaat gggctttgac cttgagcaat ggaatacggc tctacagcgc 360
ctgcgagagg cggcagaggc cctcccggcg cattgccgaa ccctgcttac ctgcaatgtg 420
ggcgacccgg aggagtcgaa aaccaagaat gaccggatca agggtgcctg gggcaagatc 480
ctgatccgcc agcctgcgga tactgtggag gagatggctg atattagaat accggttgtt 540
gggaatgtcg acgcc 555

<210> 1466
<211> 222
<212> DNA
<213> A.fumigatus

<400> 1466
agctttgact cctgggttcc cttggtgaac tttcaaagcc tttgtgcata ttggcgagca 60
tgttcggtac tcgagggtta caggaacgga gcagtcttcg ctgctagcaa gcatgctgca 120
gtcgggatgg tcaaaagcgc agccttcgag gttggatcaa ggggcatccg agtgaacggc 180
attctaccgt gtgttttcct actattttac ctaacttcgt ga 222

<210> 1467
<211> 222
<212> DNA
<213> A.fumigatus

<400> 1467
cttcgtgatg aagttaacca agtatatagt ggacctatcg acacacctat gtttcatcaa 60
gtcagagaaa acgccggtct gtcttcctcc gcatcagata cgccgattcc tcggcctggt 120
caacctgagg aagttgcaag cattgcagta ttcttactgg gtgaccagag tagttatgtg 180
acaggggccg tatggaatgt ggatggtggg gcaaatgctt ga 222

<210> 1468
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1468
tacccgctct cgtgccacct tgttggagac gtgtcagccc ctctcaaggg caatagcacc 60
gataattgca tacatggtat gggcaagcac aagttcgatt ccagagctgg cgaggttgtt 120
tggatggaag aaatagcccg tgtcagcagg tacgcggtca atcacttgga agggcgaata 180
tga 183

<210> 1469
<211> 336
<212> DNA
<213> A.fumigatus

<400> 1469
tcttctgacc ggagcagccc aacttcagcc agagcgtcca gcaactcgcg atcatcatgc 60
tggccgaacg ggtccagaac ctcgcgcacc gtgccagcaa acacaaccgg ttcgtgcggg 120
atgatgccca cgcgcgagcg gagatcgtgt agccgcacct gggcgagatc ggtcccgtcg 180
atgtggatgg atccggaccg cgcgtccagg cagcggagga gcgccagggc gagcgaggat 240
ttgcctgcgc ctgttcggcc cacgatcccg actcgctcgc cggcgcgcag ggtgaaggtg 300
aggccctgca ggacgggcgg gaggtcgggc ccgtag 336

<210> 1470
<211> 546
<212> DNA
<213> A.fumigatus

<400> 1470
gttcgtcgcc tccgtgacca tcaccttcgt caccatccgc accctcgacg ccccctcgc 60
cggattcgcc ctcagcttcg ccctggaact ctccgagcac atctcttggc tcctctcgca 120
gtacgccaaa ctcgaactag acgccaacgc cgccgagcgc atagtcgagt acacgcagct 180
cgaccaggaa ccccaatccg gcattcccgt acccgcctcc tggccgcccg ccggcgagat 240
ccaggtgacc gatctctgcg tggcctacgg gcccgacctc ccgcccgtcc tgcagggcct 300
caccttcacc ctgcgcgccg gcgagcgagt cgggatcgtg ggccgaacag gcgcaggcaa 360
atcctcgctc gccctggcgc tcctccgctg cctggacgcg cggtccggat ccatccacat 420
cgacgggacc gatctcgccc aggtgcggct acacgatctc cgctcgcgcg tgggcatcat 480
cccgcacgaa ccggttgtgt ttgctggcac ggtgcgcgag gttctggacc cgttcggcca 540
gcatga 546

<210> 1471
<211> 1029
<212> DNA
<213> A.fumigatus

<400> 1471
ccatctaagt tcgtcgcctc cgtgaccatc accttcgtca ccatccgcac cctcgacgcc 60
cccctcgccg gattcgccct cagcttcgcc ctggaactct ccgagcacat ctcttggctc 120
ctctcgcagt acgccaaact cgaactagac gccaacgccg ccgagcgcat agtcgagtac 180
acgcagctcg accaggaacc ccaatccggc attcccgtac ccgcctcctg gccgcccgcc 240
ggcgagatcc aggtgaccga tctctgcgtg gcctacgggc ccgacctccc gcccgtcctg 300
cagggcctca ccttcaccct gcgcgccggc gagcgagtcg ggatcgtggg ccgaacaggc 360
gcaggcaaat cctcgctcgc cctggcgctc ctccgctgcc tggacgcgcg gtccggatcc 420
atccacatcg acgggaccga tctcgcccag gtgcggctac acgatctccg ctcgcgcgtg 480
ggcatcatcc cgcacgaacc ggttgtgttt gctggcacgg tgcgcgaggt tctggacccg 540
ttcggccagc atgatgatcg cgagttgctg gacgctctgg ctgaagttgg gctgctccgg 600
tcagaagact atgctccggg ggattacaag gacgggttcc tcctcgatgc aactatcatc 660
gaaggaggac gagacctctc gcagggccaa aagcagctcc tctgtcttgc gcgtgcgctg 720
gtctcgcggg cgaagatctt gatcatggac gaggcgacgg cgtccatcga tatggagtcg 780
gacattcgga tccagcgcac gctgcggcag gtgattcgtg ggtgtacgtt gctggttatt 840
gcgcatcgac tgtcgacgat tgcggacttt gataaaatta ttgttctgga tgggggggaga 900
gtggtggaga tggggccacc gggcgagctg atgatgattg agaatgggat tttccggggg 960
ttagtgcagg agagtggaga gagggcggtg attgagggga tgattcatgg caatactaga 1020
gaactctga 1029

<210> 1472
<211> 930
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (885)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1472
tccgggtcaa agaccctaag agatcaggtg ggtaacccga ataactatgc agtcattggc 60
ttgggcgctg attgcctgct ttatcttttc tcagtggagt tctacaagtt ccttgggctc 120
aatcagatcc agcagctcga ctttcctgag aacaagttct ccctctactt cctcgcctac 180

aatggccccc agtcgctgca gggcgaccgt cactggacgg accgcaatgc agtgctggaa 240
ctcacgcaca actatggcac ggagaatgac cccaattaca ctgttgccaa tgggaatacg 300
gagccccatc gcggtttcgg gcacattgcc atctcggtcg acaacatcga agcggcctgc 360
aagagactcg aagacgctgg gtatcaattc cagaaaaagc tcaccgaggg tcgcatgaag 420
cacattgcgt ttgtaaagga tcccgatgga tactgggttg agatcatccg ccgccacgac 480
caggatgtgg ggactgcgac ggatccaggc acctaccgac tgaaccacac catgttacgg 540
gtcaagtccg ctgagaccag tctcaagttc taccaggagg ttatgggcat gacccttgtt 600
cgcactatcg agaacaagga tgctgccttc aacctctact tcctgggata ccctgcgtct 660
aaccccactg cccaggaagg tgcgaagaat cctgtggctg aatgggaggg gctgctcgag 720
cttacctgga actacggtac ggagaagcaa gaaggcaagg tgtaccatga tggtaattcg 780
gagcctcaag ggttcggtca tatttgtaag ccaccccgtc atcttttgca ccggtcgaac 840
tgcgctgaca ttgatgtgcc tgcagggttt ctgttgacga tcttnttaca cagccagcca 900
tggaaggaaa ttatattgcg tacccaagat 930

<210> 1473
<211> 318
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (141),(256)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1473
ctgtacaact atgcaacatc atcatcatca tcatctagac tgtcatttca agatcaacct 60
tcacgagccg ctcgtgagct aactacgctc actcaaccaa tcaccaaagc cctcacctca 120
atactctctc tcggcttcgc nacctccctc gtcctcggat ccgaaaatgc agaatgcggc 180
acccgctccg caatggctcc cccttgcccc gcctccgctg ctgcagccgc aagaatatcc 240
gagcacttca acaacnacct ctcctcattc tccatccctg agagatacat ccaccgctgg 300
tttccgatta tactttga 318

<210> 1474
<211> 429
<212> DNA
<213> A.fumigatus

<400> 1474
tgtcaaatca tggccgcaac acacggacga aaatccaccg cggacagcaa cgtctccgag 60
cctcacgtcc tccgcggcaa tgtaagccac caagtccaag ccttcaccga ctggtcgcag 120
gcccgccgat tccgcatcct cgacacaatc aagcacgacc acagcgagat caagtccttt 180
tacgagctga tcgtcagctc ccccggcccc gaggaacaga ccaaatacca gaaccagttc 240
acctgggaac tggcgcggca taccgtcggc gaggagctcg tcatttatcc cgcgctggag 300
aaatacctcg acgacgggaa ggagttggcg aggaaggata gagccgagca tcagactgtc 360
agatcccttt tccctttttc ctttgtatgt agtggggagt gcgtcttccc cacggactgc 420
aataccgcg 429

<210> 1475
<211> 393
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (390)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1475
gccatggctt actctccggc accggcatcg ccagctactg gcacagctgg acaaaccctg 60
agcagcagcc ttcaccctag aggccgatct ccaagccccg cgacgaacgc gcccctctcg 120
aaacgggaca agcgccgcgg agcactacaa gaacggctgc acgatctcac ggcgaccttc 180
agccataacc gagacgcgca atttcgccag cagctgcata cattgcagtg cgatatgaca 240
ttgatcaaca atgcggatcc gtactccccg ggtccgctgc ccgactcggc ggaggaaatc 300
gcggctttgg ttgagaagac gatcggtggg ggagcttttg cgaaggagat ggctaatttg 360
tctggcatgt ggtattcaag gtttgtgcan gag 393

<210> 1476
<211> 546
<212> DNA
<213> A.fumigatus

<400> 1476
cgcttcgata ttactcaaga ggccgaggtg cgtatccgct gccccgagcg agaagagcga 60
gccgaccagc tcggcacaat tggtcaggta gctcgttggc accgacgccg gaatcaacca 120
tgcaaggctg gagaccagct tgtcgagcag ggacgacgac accgacgaca ccaatcccgt 180
cgcgccggga gcggctgcgc tcgcggtcgg ggtgtaccgg ctcaacatcc gctgcgtcag 240
ggtcgaatgc gtcgtcccgc cggcgcttgt attgccctgt tgggcgggtg tagacgagcc 300
gccgctgccg tcgggacccc agatgacgag aaggatagga aagagtttcg cgcaactgct 360
gacgagcagg gcggtgctga tggccgtggg gctcgccggg gacggcggtg gcaaaggccg 420
gatgctctgc gccggcgcgg tggacgcacg gcgcaaaggc ggcgggggga aggggaacga 480
tccctgcggt gtcgacgcgg ggctgtggtg atgttggtcg gtaccgaaat tggtggtgga 540
cgctga 546

<210> 1477
<211> 1140
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (185),(410),(435),(438),(464),(467)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1477
gacctttcaa atttgtgggt aacccgggga ttttttttggg taagagggtt aattattccc 60
ggcgggggat ttttttcttt caattggagg gaaactccaa catggggcgg gatcgggggt 120
tttccaaagg ttgcgggttc ctgggttgcc cgaacaccca ttcatcgtgc aaaacttctt 180
ttttntaagg ttggaagccc tcgcaattct gggcttcatc tcacaggtag ggggtggcct 240
tgggttttct caccgacccc aatggcaacc ggcggcattc acacaacggg gcccgaggaa 300
ctgtccccgt cgaatccctc aacccccgtc ttcccttcgt tctcgtccca gtcccaatcg 360
gttacacgtt cagggcaaca gtcacccacc gcgggaatga caatgagccn gacgagactt 420
acacctcacg gttcntcnca ggacatttcg ctctcggcca gtgntgntac cctgggcacc 480
tcagcgtcca ccaccaattt cggtaccgac caacatcacc acagccccgc gtcgacaccg 540
cagggatcgt tccccttccc cccgccgcct ttgcgccgtg cgtccaccgc gccggcgcag 600
agcatccggc ctttgccacc gccgtccccg gcgagcccca cggccatcag caccgccctg 660
ctcgtcagca gttgcgcgaa actctttcct atccttctcg tcatctgggg tcccgacggc 720
agcggcggct cgtctacacc cgcccaacag ggcaatacaa gcgccggcgg gacgacgcat 780
tcgaccctga cgcagcggat gttgagccgg tacaccccga ccgcgagcgc agccgctccc 840
ggcgcgacgg gattggtgtc gtcggtgtcg tcgtccctgc tcgacaagct ggtctccagc 900
cttgcatggt tgattccggc gtcggtgcca acgagctacc tgaccaattg tgccgagctg 960
gtcggctcgc tcttctcgct cggggcagcg gatacgcacc tcggcctctt gagtaatatc 1020
gaagcgctat atatcctgct tggatgcggg tatctgcgcg cggtggcctt ggctgtgacc 1080

ggcctgctcg cgcggtggat ggtgcagagg gtgattctgg gtgcggtggg aatcggctaa 1140

<210> 1478
<211> 765
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (240)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1478
tccaagcaat ggtggctaac aatgagcaag tatgcggccc ggggtatcgg aatggcggca 60
tttcagggct ggcagcagat ccatatcgcg actcacgact cgattggcac cggcgaggat 120
gggccgacgc accagcccat tgcattggca gcgctgtacc gtgcaatgcc aaatcttctt 180
tacatacggc cctgtgatag tgaagagacg gctggggcgt ttatcgcagc aatgcaagcn 240
acatccaccc cgacaatcat ctcgctgtcc cggcagaact tggagcaata cccgaaattt 300
tcctcgcgag aaggggtcca gcggggtgca tatgttttca tcgaagatga gcaggctcaa 360
gttacgttga ttggtgtggg tgctgagatg gtctttgcag tccgtacgcg acaggtgctg 420
caggaccgtt ttaacatcag atctcgcatt gtgagtttcc catgtcagcg tctttttgca 480
cagcagagcc aagaatacag gagggaggtc ttgaaatatc ggtcaggaat cccccgtgtc 540
gttattgagg catatgcggt caccgggtgg gagagatacg ccgatgcggg cttcacaatg 600
agcacatttg gacattccct acctggtgct gcagcatata agtactttgg attcgacgag 660
catgtgattg caccagaggt ggcaaagctc gtggacgagg ttcagcggga cggcatcgaa 720
agcttgcgag gtgacttcag ggacttgaat ccggtgcgcc gttag 765

<210> 1479
<211> 336
<212> DNA
<213> A.fumigatus

<400> 1479
tccatcatgg ccgacatcac cgcggtcggt gaggagaacc cttctcctac ccaggacgac 60
ctgcagcagg ccgccggcaa tggcgccgct gacaaccgcg gtcccaagcg ctcgagaatg 120
agcgcagaag acgatgacga tgatgatgac aagcccggtc gcgagcgcag aaagattgag 180
atcaagttca ttcaagataa gtcgcgtcgc cacatcacct tctccaagcg gaaggcgggt 240
atcatgaaga aggtgcgtac tttggcgtct ccctgcccgc ggtcatcgcc tgtctctcga 300
gtctcttact ttttcttatc ctgtcctctt gtttga 336

<210> 1480
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1480
cggttcaatg cgatcgcaaa acaggcctat gagctctctg tcctcacagg tactcaagta 60
ttgttgctcg tcgtgtccga gaccggtctc gtctacactt ttaccactcc caagcttcaa 120
ccactggtga cgaaggctga gggcaagaat ctcatccagg ttagttgtct tcaccacggg 180
cggcggaaaa tccgagatgc g 201

<210> 1481
<211> 306
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (157)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1481
gcgttgatca gcagttatgc cgccttccgc cgccacttcc gcgggttggt tttgtatttg 60
ggtacaatcc ccaacagagc tcgcaaagct actatcatcc agcatcatct tcccaacatc 120
tctcacaatc aaatcttcca catgatccac acggacntag aaggcatgct aaccctgtca 180
atcagtattc ttctagtctg ggcaataaag gttaaccagg ttaatagttc agctctacca 240
tacgccttcc cttctctttc agggagccct actgcgcttc cagatcatgg atatgcttca 300
gcgtaa 306

<210> 1482
<211> 747
<212> DNA
<213> A.fumigatus

<400> 1482
ttgttttcgt ctcgtcaaac tgtgctaact attcaggtgg ccgatttgga cttgatggac 60
ggccacgtct ccagactgat tgacctagtt ccgaaagacg gctcggcgtt tgatatccag 120
cggttgttct tcctcctcac gatcgattcg gcgactcatt tcctctttgg cgaatcggta 180
ggctctctgc acgctggcac agacacgggc cttctgggca gatcagccgt cggtaacgcg 240
gagggcttcg cagaggcgtt caacaaggct caggagtatc tcgccgcgag gtcccgagcg 300
gtcgtcttct actggatgat caaccccaag gagttccgcg atgccaacaa gcgcgtccat 360
gaggtcgtcg accactatgt ccagctcgct ctcgagtctc ggcggaatcc ggagaagaag 420
cagcctggag gccggtatat ttttgctgag gcgctggccg ccgagaacga caatccgaag 480
gtgttgaggg acaacatgct caacatcctg ttagcggggc gcgatacaac cgccagcctg 540
ctgagctcga ctttcttcta cctggctcgc catccgaacg tgtggatcaa acttcgtcag 600
gttattgtgg acgccttcgg cgacgccgag caccccaagg aggagatcac acagacaaag 660
ctcaaggata ttccgtatct gcgatatgtg ctgaacgaag gtacgttaac cccccggact 720
caaatgtctt caccgcgggg ttgcaag 747

<210> 1483
<211> 330
<212> DNA
<213> A.fumigatus

<400> 1483
cctgtcacga tgtgcgcggc tccttgccgc ctcgtggtga agactgagct catcgccgag 60
cagtatggaa agtacggtaa cacatttaca cagacgatct ttggacaacc gctggtgtct 120
acgattgagc cggagaatct caaggctctg ctcgcgaccc agttcaatga tttcgagctc 180
ggcacgagac accgagagtt ttatccgtta ctcggagacg gaatcttcac gctggatgga 240
gcaggatggt cgcatgcgcg tgcgctatta cgaccccagt ttacaaggga ccaagtgagt 300
gattgttttc gtctcgtcaa actgtgctaa 330

<210> 1484
<211> 699
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (650),(658)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1484
gcgcaggaac ctccctatca tctgctggct actggagcga acatttcgcg aaaagtaaga 60
atcattttca ctggctgcct tctcggtgaa tcaattgcag gaggccaaaa gctaatctgt 120
ccgttctaca gcaacctaga ctgggaaatc gtgatcgtcg acgacggctc cccggacggc 180
accctcgaag tcgccaaaca gctacagacc ctctggggct ccgaacacat caacctcaag 240
ccgcgggccg gcaagctggg tttgggaacc gcatacgtgt acgggctgca gtacgtgcgc 300
ggcaactatg tcatcatcat ggatgcggac ttcagccacc accccaagtt cattcccgag 360
atgattcgca tccagaagga gacggacgca gacatcgtca cgggcacgcg gtatgcaagc 420
cgcgatggca tcaagggcgg ggtgtatggg tgggatctgt tccggaagtt cacatcgagg 480
acggcgaacc tgatcgcgga tgttatgctt atgcctggtg tgagtgatct gacggggagc 540
ttccggctgt acaagaagag tgtgctggag aaggtcatcc acagtacgca gagcaagggg 600
tatagtttcc agatggagat gatggtgcgg gccaaagcga atgggttcan ggttgcanag 660
tgttccatta cctttgtcga ccggctgtat gggggatag 699

<210> 1485
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1485
gatctcaagt ctgtcgcttc tgaatctcta cagtcaatca caatcaaaat gaagttcaac 60
atcatcgccg tctcctctct cttggtcctg gctactgccc agtctaccac cgagagcgcg 120
ccctccacca ccaccagcct gagtcccgag gcctcctgcg ccgccaaatg ttcgtatttc 180
tatcttttct tgaactatcc gtctcataaa gctaaccttg caattgcatt taggcggttc 240
taa 243

<210> 1486
<211> 351
<212> DNA
<213> A.fumigatus

<400> 1486
actatccgtc tcataaagct aaccttgcaa ttgcatttag gcggttctaa tgatatttgc 60
tgtgttgctg gatgctacaa cgttccctgc cctagcgacc agcaagccaa cgacaccatc 120
agctgtgttg ctgcgtgccc tcagggttct ggcactccta gcgacaccga caagtatgcc 180
gcttgccaga acagctgcta cagcagccac ttcttccccg cgaccatgac gaatgctggt 240
tccgccaaga ctggtgtcag ctccaacacc gcgaccacca ccggcactgg ttccagcagc 300
tctgagactg gcacttctgg tatgtcgctg gttctatttg gtcatttctg a 351

<210> 1487
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1487
atcttgtcga ggatgccaaa gctaattgga caatctgcag gctccgactc caccgcctct 60
ggctccggca ctgctaccag cagctctacc gccacctcaa ctcccaacgc tgctgttgtt 120
agccagatgc agctcggtgt ctctgccgct ggtctccttg gcttcgttct tgctgcttgg 180
gctctgtaa 189

<210> 1488
<211> 246
<212> DNA
<213> A.fumigatus

<400> 1488

tgtatggaag aagtctcata tctcgttggc agttccccca ctatggttag ggatctttcg 60
agacagttcg ataacaagag tcgcgagtct ggaacacccc actgcatcaa actgcgatgt 120
ccctgttttc tgcttgctgg gaagcacatg gaatcgtcct actatgtatg gtatgatgta 180
gtagactttt tccccctctgc tatcctcgaa atgaagaatt acccatggtt tatcaggaag 240
tactaa 246

<210> 1489
<211> 1356
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1176),(1265)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1489
tctcttttt tgccccttt tcggtccgct aaccatggga ttcatgcaga gaataagagc 60
ttccagccac ctatcttttt gaaatgtggc cctctgctcc gctacacagg actgaaacga 120
gtcaggattg atggaccaaa tggccctttc gacaaggaga cttggagagg tagtgttatg 180
attgttacga aagattcacg ctcttcctat gagtctccgc ccaccctgag attgttttcg 240
cagccgatgg atcttctgcc gcctccgcca gtcgaagtca gtgacgctca gcttgcaccg 300
gaatacgtcg atcccacagc aggtctcatg aagctgggta gggacgggag gccgctttat 360
gtcaagccga tcgaccatac cgaggaagga gtggacttgt catttgtgga gaatgatgat 420
ggagtctacg agatgtcccc cagtaaccta gactatagca gtgacggcgt caagcagtcg 480
atccccgcca acaggcttca ctcagtggac ggagaaaccg taggagcata caaagagatt 540
cccggggcgc gcttgtacgc cgactcggct cgggatgtga cattctggag gttcaacatt 600
gaaatagaac tgggtgagac gcaacaacga attgcatacc gcttgaacca cggaccggcc 660
ctgggattct gggtaccggc cagagggcag tctatgaaca ttatgttcta tagctgcaat 720
ggtttcagcc taggagttga ttccaacaaa ttttgcggtc ctgaccctct ctggcgcgac 780
gtcttgaacg agcatcagac tcgccctttc cacgtcatga ttgggggcgg tgaccagatc 840
tctaacgaca gagtcatgct ggattcgccc cgattccaag aatggatcaa ggtaaagaac 900
ctgactgaca agtatgacat gccgtttgac ccagaattcc gagctgagat agagagcttc 960
tatctcgaga actactcggc ttggttctca cagggccttt tctctctggc caattcccaa 1020
atcccaatgg ttaacatctg gaacgatcac gacatcattg aaggtttcgg gtcgtatccg 1080
gacgagttca tggccacacc agtgatttcg ggactgggta gaatagcgtt caagtactat 1140
ctgctcttcc agcatcacag cttgactgaa gagacngaag cagatgagcc tagctggctt 1200
cttggtgcgc agcttggacc ctatatcaac caaagaaatc gaaatgtgtt catgtctctg 1260
ggcanagaaa taacttttct ggggttggat tgcaggaacg aacgactggt aaggataatg 1320
tgctttcctg gcggaaagga aaagggtaaa tgctga 1356

<210> 1490
<211> 357
<212> DNA
<213> A.fumigatus

<400> 1490
agacgctccg aagccctaaa accgctccaa gcaaactcga ttatatcaga atgcgacata 60
cgattgttca aacctgtgct aatgctcctt ttcttgctct taggctgccc aactccccag 120
cgcattgtga cctactctct gtcttccaac cgtcagcgcc ctctcgctgg tgctttccac 180
gctgccatct tcaacacctt ccgcagattc agaagccagg ttctatacgt cgttcctcct 240
tttgtggtcg cctacgccgc catgaactgg gctattgaga ggtatgcgcc ctcttgcctt 300
gcgtctctct tcgctctcca ggcttcaaac cagtcgctga ttgttgctat tgtatag 357

<210> 1491
<211> 324

<212> DNA
<213> A.fumigatus

<400> 1491
ggccgaccga taaggaccat tttggcccct agcgccagag ccttagctac atcagcaccg 60
caacgcacgc cagaatcgaa gatgacttct agatcttttc ccaccgcatc gacaatgtct 120
ggaagcatgt ccaaagatcc tactccccca tcctgctggc gtccgccatg gttggatact 180
actattccct gcattccgta ctcaactgcc agctttgcgt cctcgaccgt ttgtataccc 240
ttcagtacga ttgggccatc ccaatgctgc cgaaggaatt ggaggtcttc ccacccatgg 300
ctcatcccag ggaatatcat atga 324

<210> 1492
<211> 666
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (9)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1492
gtcacactng acacctacat cgttggatgg cgcccctcgg acttagacaa tgggtatcat 60
ccattcctcc ggaaagacca catcggggtc gcaactggct tctccgaccc tgtgtttcag 120
aagaagtttg cggaaaagca cggcaaaagc atcccagtag acatggcgac tgcggcggcc 180
gaatgggctc atatgatatt ccctgggatg agccatgggt gggaagacct ccaattcctt 240
cggcagcatt gggatggccc aatcgtactg aagggtatac aaacggtcga ggacgcaaag 300
ctggcagttg agtacggaat gcagggaata gtagtatcca accatggcgg acgccagcag 360
gatgggggag taggatcttt ggacatgctt ccagacattg tcgatgcggt gggaaaagat 420
ctagaagtca tcttcgattc tggcgtgcgt tgcggtgctg atgtagctaa ggctctggcg 480
ctaggggcca aaatggtcct tatcggtcgg ccctacgtgt acggacttgc catcgctggt 540
agggagggtg tccgccatgt actacagagc accttaggtg atctacagct tactcttcat 600
ctgtcgggga tcagatctgt gcagccagag caccttaatc gatctagact acgacggatg 660
gattaa 666

<210> 1493
<211> 375
<212> DNA
<213> A.fumigatus

<400> 1493
aatcacagct gccgttgtta tgttaccctc aagatcttta tcaagtctgc atccatggga 60
cagcaattgg atgatgagct ccagatgtat aaacgcatgg agaggggctc aaagaaccat 120
ccgggtcgca gtgctgttag gtcgttactg gactcctttg atgtcgacgg gcccgaggac 180
aaacatcggt gcctcgtgca tcctccatta tgggacagtg tgttgacctt tctgcaccgc 240
aacccggagc agaggctacc tgctccggtc ctggcatttg tgcttaagcg cctgtttctg 300
gcgctggact acttgcatac agaatgccag attatacatg ccggtatata ttctggaggt 360
cccatggacg tatag 375

<210> 1494
<211> 408
<212> DNA
<213> A.fumigatus

<400> 1494
aagatggcct cacagatttg gaacattttc gagggcgagt ccttatttac tggctatgat 60

ccagaatctc acacttatcg aagtcgagcc catctcgctg agatcatcaa gctgcttggg 120
cctccctcgc ccagtcttct tgcccgaggg aagctaagcc ataagttctt ttctgacgaa 180
ggtaagccaa tgcccctgtc cttccaatat ccgctcactc tgtccaacgt tatagatgac 240
ttgtgtgcca aagttctgtc agaaggtcgg attccgcttg agaagaggga aacaacgctc 300
caaggacaag acaaggcgga ttttttgcgc ctaatgctga agatgttaca gtgggaccca 360
gccaaccgta gctctgctag ggaactgcaa gaggatgagt ggatgtct 408

<210> 1495
<211> 270
<212> DNA
<213> A.fumigatus

<400> 1495
ggagaatttc tgacatattt atgcgtttta ggcttccata cgccttctaa gttcctaagt 60
atcgatcacc ttgtcagaat ggagagcttc gatgtcacgg acattagcaa tgcgctcaag 120
gaagtgaccg gggaaaagat atacaaaaac gtcgaagctt ccaatctcgc tcgtgagaag 180
ggatgggttc tacccgagca gtacgactac accaagttac aacagtgggt tctgctggag 240
aacccggaag atgtcactga acaaaagtga 270

<210> 1496
<211> 480
<212> DNA
<213> A.fumigatus

<400> 1496
gcatcgtcac cggataagaa accgccttgg ttgagaactc ttggcaccac tatgacttct 60
acacttcctt atttgaccag tcctccagca acccatccga gcaattccga tcacaaaaag 120
ctacgctcgg cctgtgattc gtgtcatcag tgcaaggtca agtgctcggg ggggtctcca 180
tgtttccgtt gcacgtccaa gggcttgaac tgtcgctacg gttatcaaaa cagggcagga 240
aagcccaaag ggagcaaaaa ccggaagaca ttagagagag agcatcagct acggatggaa 300
tggctgacaa gtcaattgcg ggatgccaac ggagggctgg gaaacctgaa catcgatctc 360
tccgatccga cgacactact accaagtcca tttttccagt caacccgctg gaaacaggtg 420
agtcgctgcc tctgccaccc cggttaccta ctgtctctaa tgctcgcagg ggccaattaa 480

<210> 1497
<211> 204
<212> DNA
<213> A.fumigatus

<400> 1497
gaccgtgaag attcggtatg ctttggtctt ctaggtgcct tgattgacag aactgatttt 60
ctctcgattc ccaggttaca gctgcaggga gaacttcagg cgaaaagcga ggccgtcaag 120
aaatacaagg gcgtttttca tggagttaag ggtcattttg caaaaatgaa ggtcctcggc 180
ggcctgtttc cgggaaatcg gctt 204

<210> 1498
<211> 648
<212> DNA
<213> A.fumigatus

<400> 1498
gcagcgcgat acctttttagc cccggcctgt gtacaccctt tgcgtataga tggtaatgct 60
tatgtttggg aacaaactcc gactggttgg aagccgactc tagtgcttct ccggatcaac 120
agagctgcaa cttttgtgcg ttggtcccca tcagagcaga aattcgctgt tggctcggga 180
gcccgcgtca ttgccgtctg ctacttcgaa gaggagaacg actggtggat ttcaaagcac 240
ctgaagaagc ccattcggag caccatcact actctctcgt ggcacccaaa ctccgttctg 300

ctggccgcag gttcgacgga ctctcatgca cgggttttct ccagcttcat caaaggtatc 360
gacactcgcc ccgagccaag cgcttgggga gaacgtcttc ctttcaacac agtctgcggg 420
gagttcctta acgactcagc tggatggatc catgccgtgt gcttctcccc gagtggaaac 480
gctctagctt tcactggtca tgacagcagt gtcactgttg tttaccccag tgcccccgaa 540
caacctccta gggccatgtt gaacatcacc acacgcctct tgccttttac tagcctgatt 600
tggaacgggg aaaacgagat tattgccgcg ggtcatgtga gtttctaa 648

<210> 1499
<211> 354
<212> DNA
<213> A.fumigatus

<400> 1499
gattgcgagc cattccgctt cagcggtgat gagagcgggt ggaagctggc aggtgctatc 60
gagagcaaga cgggagccgg agctggcagt gtgcgggacg agtcggccct caatatgttc 120
cgccagatgg atctcaaggg acagactcac gcggacacac agctgaagac gatccatcag 180
aacaccatca acacaattag ggtgtataaa gagacgggcg gtgcggtcca tcagtttagc 240
agtgagttat acatgcttca ttataaggca ctcgccttac cggagagaga tatcactaac 300
ggctgtgtgc tagcgagcgg agttgatggt cgtgtcgtgg tctggaccat ctag 354

<210> 1500
<211> 885
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (674)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1500
ccctcagacc tgaagaatgg cagtgcctat tctctgaacg ggccccgatc aagcgctagt 60
tcctacacac gagatttacc acattcgaaa gatggcagca tgcattcgtt agggaatgga 120
tcggtccgcg atccaaggga gagtggccgg ttctcgatga cgatggacaa ggatttcact 180
cgaaaatctt ctgatgctgg agccagtgct ggcattggct cagctgcagg gtccatctcc 240
agcgcgcagc aggtcaatgg gatctcgccg agccaccgca ccaccaacgg aaagtccctg 300
gttaacggcg accggcccca accgtcggct gacgaagtgg tttctcagaa ctcggctgcg 360
gccgcgaacg ggaacaccat cgtcgcctca ctccccgaag ataccagccg gctcgcgtcc 420
gaacctgatc gattggctgc ctcacggacg acaactcctc accgttattc ttccccgcct 480
ctcccttccg cctccgctga cgctagtcac ccgcaagatc ccgcagcatc atcaggcctt 540
cgacatcgac atacgctgca agttccccga gcgacaagcg cccgccgtaa tagccgcgat 600
caaggggacg agactgctta tagtaatggt aggctatctc cgacggcagg ggccatccgc 660
cgaacgtcac tcantttggt tcggcgggct acaaaaacca atcccgcgga ctctgttcct 720
gacgaagcca acgcgaacga tgatgcaccg cgttgggcag aagcgatcat gcagaggaga 780
gcgtccagaa ggaaacgccg cgatgaacac gatgacgacc gcgtcttcgt tgggacgacc 840
gttgaccaaa aacccctgaa atgggtgact gccttcaata tgctg 885

<210> 1501
<211> 300
<212> DNA
<213> A.fumigatus

<400> 1501
cacttattat cggaccttgc cccgtctttg ttaaaacccg aatggttccg tagtgtattt 60
gctgtgctgg acccgcagag tgcagaactc ctcaaccttc gcatctccta tgacatccgc 120
aagaacaata accgaaacaa ccagaccacc ctaacacacg atctgcactg ggcaaactgg 180

tccagcagcg cagaccctta cctcacctac cagtacgtcc ggaccctcaa caccacaggg 240
aattggtccg tgatctggga gctctactgg caaagctgcg acgaggaagc ggaatcgtga 300

<210> 1502
<211> 477
<212> DNA
<213> A.fumigatus

<400> 1502
tctgggagct ctactggcaa agctgcgacg aggaagcgga atcgtgatga gaaggtgctg 60
cctagtgatc atgacggcgg ggtctttgaa cactactact cctggtggca gcacttcact 120
attgacgatt ccgccctcaa aaaggtggat ctcgtcgcag cgaccgccaa cgccacctgc 180
ccgggggaca ggaacgctat tgcaatcaat gttaccgata caaccatgca ttcgccccca 240
ggtctcaact ccgcaggccg cgacacttgc gtcgttacgg ccaccacgac tgctagtgcc 300
acgcgcacca ccccggaccc ctgtcgcgtc gctatcgatg cggatgccga ggccagtatg 360
gccgccgttc accagaaact gctctgcgat catctgaaaa attctaaccc gcctgaggtc 420
tgtcctgctg aggagaatgg cgctcagcag ttggctgcac ttggtgtagc ttcctag 477

<210> 1503
<211> 402
<212> DNA
<213> A.fumigatus

<400> 1503
aaaaggggggg ccctttttttc cccaaaaacc ccccccccaaa aaaaagaaat ttttttcccct 60
tttttccccc gggggttttt ttttccccca aaacctcctt tttttttttcc gggggccccc 120
cctttttccc ccccaaattt tttttgggaa atttttcccc ccaaaatttt aaattttccc 180
caaatttttt tttttttttcc ccccccccct ttaaaaaaaaa gccccaaaat tttaaaaaaa 240
aagccccccc cccaaaaccc cgggggggggg ccccaaaccc aaaaattggg cacttcccag 300
gtcctgcgca gcctggcaag ggccacacgc gcatccccct cccgatccat ccacatccag 360
cccgcttcat taaggccatc ccgaccaaca tgcagcgtat ga 402

<210> 1504
<211> 357
<212> DNA
<213> A.fumigatus

<400> 1504
cagaacctga gccctctgtc acaaccaact ctttcccgtc cattttccca ctcagccccc 60
gtctcatcgt ccccattccg cctcacctcg aaacccgaca ccgaccacac aatccccccg 120
gaaccacccc tcgacggcga accggccccc tactacagcc cctacaaacc aaagcgccaa 180
tggccccccgg atatgtccaa actttccccg aagcaccagt tccggctcga gcgcaagtat 240
cgacggcgcg cggcgctcaa gtttgctcga cctaagtggg tcaagacgac aaacttgatt 300
cagtgggggg taatcggatg taagttttct gtctttgtcc gggggaaagc tatatag 357

<210> 1505
<211> 549
<212> DNA
<213> A.fumigatus

<400> 1505
caacccccccc cgggggggggg ggggtttttt ttacctcttt ttttcccccc aaaaaaaaaa 60
aaatttttttt tttttggggg gaaaaccccc ccccaaaaag gggttttaaa aaaggggggc 120
cctttttttcc ccaaaaaccc ccccccaaaa aaaagaaatt tttttccctt ttttcccccg 180
ggggtttttt tttcccccaa aacctccttt tttttttccg ggggccccccc ctttttcccc 240
cccaaatttt ttttgggaaa tttttccccc caaaatttta aattttcccc aaatttttttt 300

tttttttccc ccccccccтt taaaaaaaag ccccaaaatt ttaaaaaaaa agcccccccc 360
ccaaaacccc gggggggggc cccaaaccca aaaattgggc acttcccagg tcctgcgcag 420
cctggcaagg gccacacgcg catccccctc ccgatccatc cacatccagc ccgcttcatt 480
aaggccatcc cgaccaacat gcagcgtatg atcttcttta tcccttctct cgtcattcca 540
cttctctaa 549

<210> 1506
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1506
tatgcttttc ggagtcgact ggtcatgaac ggcggtcgtt cattttctat ttgtcttcag 60
tcggttattg agggcttaat agcacttgag aacctctctg tgtcccggca tgctcgtgta 120
tggtacctgc tagtagttcg aagtattgag tctacctctg acacgtgggc tcatcggcac 180
ataacatga 189

<210> 1507
<211> 678
<212> DNA
<213> A.fumigatus

<400> 1507
ggggtaaatt ccaggcccga tttggggtgg aacccttcag tgaaatttgt ggcttgggag 60
ggtattcagg caggccagaa acacggcggt gagttcgggc actggcatcc cataaatggc 120
tttgttgcat tgagggtaac aggcttagca tgcccgcata ccagcagcag gatccttctt 180
caccagcagc cacatcccca gcaacagcag tattcatcct tcccgtggga ccagctctca 240
aagtccccca agccaggcat atccaatttg agcaaattag agagtgcttt ctctagtttc 300
ctgccgggtg gctcgtcgag ggaagaacgt gttgagaatg tagctcccca gcatcaggct 360
ccataccagc accaacagcc tgatcgtcca tatcaaccac atggccagca accttatgag 420
acgcactccc agccacatca tccccagtac tatcagccac ctccacagca gcatcccggt 480
ggtgggtacg gtgagcccca tgggggctac cagagtaccc cttatggaga ccaatatggc 540
cacccacctc cggttcctgg ctacaggccc ccggaacatc agcaccacga gcatcatcac 600
caatcacatg ggcatggcga ggggtatcac ggttatcccg ggtcgggcta tgacaataga 660
tacggttctg gatattaa 678

<210> 1508
<211> 378
<212> DNA
<213> A.fumigatus

<400> 1508
ttgggattgt ttctgttctt tattgccgtg cgtctcggcg tctacaacta ttcgctgaaa 60
gtcctcaatg aaggacagac catactcggc acgaacgagc agcatcctcc gctgatgaag 120
tcctttacga agcagttctg ggacatgtac ctcacggtgg tgcacctcat ggacccctgg 180
aactgggcgc tatactacaa ctattacaac ccgcacctgt ggacaattcc agtggagttc 240
cggtgctcga ttgtcctctt cctcaccatc atcgcaacct cgcgcgttac agctgttgct 300
cgcctctccc tcgttagcgg cctagtctgg ttctgtatgc gcgtcttcac cgacggcggc 360
tggaaggaca cgagcttc 378

<210> 1509
<211> 585
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222> (455),(561),(584)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1509
cacaaacatc atcctcaaga tatgttgctc attgacaagg acacacggcc ttctcctgcg 60
attcatgata ttcccctcga tgacctggag tcaggcccat atggaagcaa gtcgtccttc 120
aactggacga atctatccga ctacaccccc tcccgtgtgc tcacacgtcc ggatcggctg 180
tcttcgcacg tacagcacgt ctcaaatcac tggcaggaat atttagatcg ttggctcaaa 240
agattgggca tcgcgctcac accgagctat ctgcaacact tggtgggtgg ggagcctccc 300
cagcccacaa aattccatgc gatcgcggcg ctggatggct tgagaggctg ggcctgtctg 360
ctggtcttca attttcattt tctcttcacc tacacatgga aagtcgcagt gggatggggt 420
ttcaataacg agaactacgg gatctttcat cttcntatca ttcacttcct gttctccggc 480
cacatcatgg ttgctatctt ctttgtgata tcgggatatg tgctatccta caagcctctg 540
aagatgatcc gtactcgctc ntgggagcaa acactggcta cttng 585

<210> 1510
<211> 414
<212> DNA
<213> A.fumigatus

<400> 1510
acagaaaggg gtttggacgc ctgcattttc caggtccgcc cagccattgc tgtggagaca 60
atctttgaac gagcgctccg ttcagtatca atacaccgtc gaaagagtcg ccagactttc 120
gtttttcttc attttcaggt tctaacacat ttcgtcaaaa tgggatttgg gcaattcgac 180
tctatatgcc aaaaggcagc actccctctt tgctccttgg tgggcccttc gtccccaata 240
tcaggatcca ctggcatcat tcccaactgc tatgcgcgga atatcgagtt ggcaaacacc 300
atcatatttg aaggtgctgc gtccttcgta catatcattg ctctaggaat gacagtcatc 360
atgattctgc atgtcaggtc caaattcacc gcagttggtg agtctcgaac ctag 414

<210> 1511
<211> 690
<212> DNA
<213> A.fumigatus

<400> 1511
acgccaattg cgcgatttgt ccaatgcccg tggtggaaga atatcttcat cgccaacgcc 60
ggcgtcatgg ccaccccaga gggccgcacc aaggacggct tcgagaccca gctcggcacc 120
aactacctgt cgcacttgct gctcttcctc ctcctccgcc cggcgcttct ggccgccgcg 180
accccgcagg cgaactcccg cgtggttctc ctctcgtcca tcgcgcaccg gtactcggag 240
gtggagtttg acaacctcaa cctcgacggc cagtacgacc ggtggaaggc gtacgggcag 300
agcaagtgcg cgctggtctg ggcagccaat gagatcgacc gtcgctatgc ctcgcatggg 360
ctgcgtgcgt ttagtgtcca gcccggtggc attatgaccg ggctggtgca tcacttgtcg 420
gaagaagagc agagtggatt tactgaggac cccacgcttg ggccgcagtt taagagcccg 480
cagcagggtg ctgcgacctc ggtttgggcc gctgtcagta gatccctgga cggcatgggc 540
gggaagtatc ttgagaatgt gcagattgcg gaggcgtatg atgcgagcgg gggtccgtgg 600
gcgccgggat atgccccgta tgcgtacagc ccggagaagg agaggagact gtgggatgtg 660
tcgctgaagc tggtgggtgt tgatgagtag 690

<210> 1512
<211> 1059
<212> DNA
<213> A.fumigatus

<400> 1512
acgagactct tcctgggtcg cgtgattgca atccgacttg tttccgcctt catccaccag 60

cgtattccct ctcatgtcgt cgattgcgcc catagtcacc aacccaacac ccaagatccc 120
gaacgcggcg aagttggacg gcaggaacag ctagcgtccg ctccgaacca ggcaaatggc 180
tctaccgaac ggacgcctct cctgttacaa tcaaagccgc cttctcgcaa gtccatgccg 240
ggtgccgttg agcgaccggc gcttgaacct ctgcggtctc ggttgactcg tcgcatcaat 300
cagctcatgg gtggcgttaa aacccaatgt gacgaaaacg gcccgtgcta tggtttctcg 360
cagacgtgcg gtcttgaatg taccaagatc ctcactaata cgcagatggc tagcgtcgtc 420
gaggagatgc ctcgcccttc cttgatcacg catcacagca ttggcgtgca gcttgactcg 480
gaacgcgtag gatttggaga aggggctggc ccaggcctgc tcccccagtc gcatgattcg 540
acagaagacg tctcaggaca atcggacgcc agtaactccc agaaaaacca aagcagcgca 600
tcttccttgc ggaccggtct ggaagtctat ccccacaaat cctcagagga ccaaaacgat 660
tcgaccaaag agccacgggc agcatcggcg caacaacaac aacaacacca tcaccacgtg 720
ccccagaatg cctttctctc tatcggactc cagacgtcgt tggctattgc cctccataag 780
ctcccagagg gcttcatcac atacgctacc aaccacgcca gccccacgct cggcatgacc 840
gtcttcgttg ccctcttcat ccacaatatc agtgaaggct tcgccatggc cctgccgctc 900
tatcttgcgc tcaattcccg ctggaaagcc atgttctggt ccagcttact tggtggtatc 960
agccagcccg ccggcgccgc cctcgccgct ttttggattt ggggcgcgcg gaacgccggc 1020
caccacgacg agaaaaccgg tgctaaacca cgccggtag 1059

<210> 1513
<211> 699
<212> DNA
<213> A.fumigatus

<400> 1513
agacaaacgg tctcagcgag gacagtcgca ctacccacac ccagccatgg tgaagactgg 60
cgcacaagca ttggttccgt gggcaacttg ctccccaaca tggaagcaaa gtatatgacc 120
atgcctgaag acgggtcgga accccgcgaa gtgcctgtgg gcgaggtggg cgagctgtac 180
ttgcgcggac ccaacgtttt cctgggctac cacaacaacc cggaggcgac ggcccagtgc 240
ctttccaagg acggatggtt ccagacagga gacgtcggct accaagacaa ggataacaac 300
ttctatatca ccgatcgtgt caaggagctt attaagtaca agggcttaca ggttgctccg 360
gcggagctgg aaggaattct ggtggacaac gaggcagtcg atgatgtcgc tgtccttggt 420
gtggagagcg aagcacacgg aacggaagtg ccacttgctt acattgtgcg aagcgcaaag 480
agcaagaact cgaacatcac tgccgaggag gaggccacga ggatcgtcca atggctggat 540
ggcaaagttg cataccacaa gcggttgcgg gggggtgtga gattcgtgga tgagatcccc 600
aagagtccga gtgggaaaat cctgcgacgg cttctcaaga aacaggccaa ggaggatgcc 660
agcaaggctc tagggtgtct gctccccaag ctaagctgt 699

<210> 1514
<211> 474
<212> DNA
<213> A.fumigatus

<400> 1514
gcccatatgc gcggttcttt cggtccctgg gcgagaagac tgctgcagga cccgcattac 60
ccctggcacg ccctctcccg gctcaacgcg gacaagttct tctcggatat catcgagagc 120
gtcctcggcg ccatcttcgt cgactcaggg ggtaaccttg cgccgtgcga ggtcttcgtc 180
gagcagatcg ggctgatggc ctacctgcgt cgaatactgg accatgggat tgacgttagg 240
catccgagga gcgtggtgca gcagttggct aagacaaata tccagtttgt gttgcagcgg 300
gttccgaccg aggagggagg cgcgagctat cagtgctcag ttcagatgga gcaggcggag 360
ctgtttgtag tgacggggtg cttgacagct gaagaggcgg aggtgaccgc tgccgttgag 420
gcgattaaat tcctgacacg ggatgagggg tctacaccat tgaacaagag ctga 474

<210> 1515
<211> 327
<212> DNA
<213> A.fumigatus

<400> 1515
accccggtt ggggtgggtc cccgcccccc ctactgggtg gaaagcgttg ccctttcaag 60
gacacccgtg ccatcctgac gccctcccac accggtaagc tcgccaacgt ggagtacaag 120
ccctccaatg tgttcaacct ccacgtgccc aagacctgcc ctggtgtgcc ctctgagctg 180
ctaaacccca agaacagctg gaccgcctca acaagcttca ccgacgaggt caacaagctg 240
gccaagctgt tcaacgagaa cttcgccaag tacgcagacg aagccaccaa ggaggttatt 300
gcggctggcc ccgttccctc ccagtag 327

<210> 1516
<211> 498
<212> DNA
<213> A.fumigatus

<400> 1516
ttctccgacg cggcacgctt gttgaacttc taccaattgt ggcttgacga cttattcccc 60
cgtgcaaagt tcgcggatgg tcttgccata attgagcgac tcggccactc gaaacgctta 120
caagcgatgc gaaaggaatg gatagatgag gagaagccaa aggacgcgtc agaaaatcat 180
aatgatgtcc tgaaagcctc cgaatcatca ggaagtcaat ccgatgatcc tgttgtagca 240
tttggtggtc tcaacatggc ggatacaaaa cgatcgaaag gggatattgc tggtgactat 300
atgtttgatg cagagaggat gcgtgttgaa gtcaatttaa atccttccgg acaacgcaaa 360
ctagacgagg ggctctttat gacagataac gatgatgtcg cgcagcagcc tgataacctg 420
ggagcacctg acgacgatga attggatgca cttctaaaag aacaggagct actcctgatg 480
aacaatgcct ctgcctga 498

<210> 1517
<211> 903
<212> DNA
<213> A.fumigatus

<400> 1517
ccactgtgcc tgcaggatcg cgtggcccgc cggcgaacaa cgactggatg gctcggttcg 60
acccgagagg ccaacagcaa cagcagcaac ctgcgcctcc tcagcccccg cagccgaatc 120
gaccggccac aacactggcc gcgcagctgt cgtactatac gtatacctcc ggggcaaccc 180
cattccgctt cctctcttcc caacctcact gctccatctc cggcccatac accgtccccg 240
gctccgactc agcgtccctc gtatccagga tcgatgtacg cacaatcgcc gtcctcacac 300
acacagccag cgcctagtgg cgcgcgcgat ctgggctcgc agaatcagat ttaccggccc 360
gcagtcggat cccccacgtc acgccacaac tccattgcgt acggctcacg acagggcccg 420
ccgacgcccg ttcaatcaca gacaagcctg cttggtctgg gatctcggcc gcctgcgcca 480
accgtgtctg ccccggcccc atcgaatcat atgtcggctc accagaccta tcagcagcat 540
gtgcagacca tggtcaacgg agcccatcag cagcaatcac atcgcggccc gctaggattg 600
agtacaggct atggccacaa ttccccgcaa ccgcaagcac agggttcccg tgcggcgggg 660
ctgccaggac cgccctcgca ggcggccgcc atgggccggt cgtatacgcc gccggcgatt 720
ctacagccga acccggcagg atacggtccg agcggcccat cgtcggggat gcatcctctt 780
caggcgcgac cgtctggccc tggaggtgtt ggtgagcctc tttcctctgg ccacaatccg 840
ggacatcaac gggggtacag tcaaggatca agtggaatgc cgccacagca tgggccacgc 900
tag 903

<210> 1518
<211> 690
<212> DNA
<213> A.fumigatus

<400> 1518
ctgactgttg tccatcttat agcgaactca cttgttgcag tgggcgatga agaaggcggc 60
attcgattac ttgactctgc caaagacgac aaaagcggat tttccaaggc atacctaacc 120

tttcgtcccc acatgaacgc aataatggat cttgaattct cgtccgatga tatgctcctg 180
gcaacagctt ccggtgacca aacggcacag gtgattgata tggctacgca gaaaccgata 240
tactgtctat caaaccatgt gtcctcagtg aagcgcgttc agttccaacc ggcggcgaat 300
aataaagttc ttgcaacttg cagccgggat ggaaatgtca acatctggga ccttcgatgc 360
aaagggttcg aaaggccatc cttacaggtc cggtgctcgc tggaatctga ctcggacaat 420
tcgctgtcac tggcttacaa aatgatttat ccccaagttc ttaatacgat acatggagct 480
catgcttgga ccccccaaac ttctatcaat gataaacccc aaccgcaaaa tgggacgttc 540
cgaccacaac ggaaaccttа tttgacgttt gtttcccccc ggtcacgaaa atatctttgt 600
gacaaccttc aaagcccatg catgcctgag aataagagaa tttcctacca cacacaaaaa 660
ccgttgaggc ccccctttcc ttctcgttga 690

<210> 1519
<211> 567
<212> DNA
<213> A.fumigatus

<400> 1519
acgacggcca tggatgcctc gtccagccat cgccgtcagc gcagtacaag tagacagcgg 60
gacgaccatg tagaatctcc gcctgtgtca gtcaaagtga agatgcacaa tgacggacgg 120
cacgtcactc tgaggagact gaccgaagaa gaagccgccg ccagtcgtga agcacgacga 180
agggagagga gaaactcacg tcgtcgcgcc ggaagtgcga gttctttatc gggaaacgaa 240
ggtggctacg atcgatggcg ccgggtggag gaactcgagc gccagcagca ggaacaaatc 300
caacgtgaac agcaggcggc cgcggctgca gccggttctg ctgctccttt gggcgctgct 360
cctcccccat catttgtccc gccctcgagt cacttttctc ccccacctcc ccctgtaccc 420
tccagcttgc cctacggcag catcgggtcc ccgggcacat ttaccggcac agatgcgagt 480
ggcgactatg caaacaatcg ccggcgaaga cgagcggaaa gagctcgagc tcggcaagaa 540
agacaacaga gtgttgattt cacatga 567

<210> 1520
<211> 1029
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (40),(928),(965),(983),(986),(987),(988),(990),(991),(992)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1520
cccccgcctg gtatgagggg gtgccccaag caccccaagn tggtgaaacc tcctccttca 60
cagaccagca gcggcaggtc cacgccggtc cccgtcaaag atagacagaa actaggtctg 120
gaaggtggct cgaggagacc agagacgcgg gaagccatgg ttgagagcat cggcgtgctg 180
gcacgtattc ccagtttcat ggtggagctt ttcgtcaact atgattgcga agtagatcgg 240
gcagacctct gtgaggacat ggttggtcta ttgtcccgca atgcctttcc cgattcagcg 300
acgtggagca caaccaatgt gcccccattg tgtctggatg cactgttggg gtacgtgcaa 360
ttcatatacg atcgtctcga ggacgagccg cgatacgagg gctttccgtc caaggaactg 420
ctgaaaagcc aacgcaaaaa gaagaggatt atcatccagg gcgcccaaaa gttcaatgaa 480
aatccaaagg cgggaattgc atatcttgca gctcatggta tcattgaaaa tccggatgac 540
cctgttctgg ttgcgcgatt cctaaaggga accactcgga tttcgaagaa ggttcttggg 600
gagttcatct ctaagaaatc caatgaagca atccttgacg cattcgttga tctgtttgac 660
ttctccggca agactgtcgt cgatgcgctg agagacctcc tcggtgcttt ccgtcttcct 720
ggagaatctg ctctcattga aaggatagtg accacattct ctgacaaatt tgtccagaaa 780
gcccacccaa agggcgttgc agacaaggat gcactctttg tgctgacata cggcattatc 840
atgcttaaca cagatgctta caatcctaat atcaggcccc aaaatcgcat gacctgcaat 900
gaatttgcaa ggaatctgcg cggagtcnat gcggggagaa gaatttgctc cctgaattcc 960
ttctngaaga tctacgaact cantcnnncn nnacgagatt atttttaccc gatgaagcct 1020

gaggaataa 1029

<210> 1521
<211> 987
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (11),(27)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1521
cttgccaagt ntggtgtcgt ctgtcgngaa cacgatgatg gacttgagat cgacggcatt 60
gaccgctcca cccttcggca gccggccggc ggcgtatttt gctacgatga ccaccgagtc 120
gcgttcagct tcagcgtttt atctctcatt gccctaaagc ccacgctgat tctagaaaaa 180
gaatgtgtgg gtaagacatg gcccggctgg tgggatactc tgcgacagaa attcgccgtc 240
aagctggagg gcaaggagct gaaggaagcc gagtcacccg ttcttacccg tgccgaaaag 300
gcaagtgcgt cggtgttcat tatcggtatg cgtggtgctg gaaagaccac aagtggacac 360
tgggttgcgt ctacgctcaa gcgacccttc attgatctag acgacgaact cgagcgcata 420
gaaggcatga ccatcccgga catcatcaag cagcgtggct ggcaaggttt ccgagatgcc 480
gagcttaatc ttctgcaacg aacgatgaag gagcgcccga ccggccatgt tttcgcatgc 540
ggcggaggag tagtagagat tcctgaagcg agaaagctgc ttatcgattg gcacaaaacc 600
aaaggaaatg ttctgcttat catgcgcgac atcaagcagg tgatggcatt cttgaacatc 660
gataagaccc gcccagctta cgttgaggat atgctgggag tgtggctgcg ccgcaagcca 720
tggttccagg agtgcagcaa tattcagtac tacagtcagc acgccagcgc aggacttccc 780
cgggcgtctg aggactttgc gcgttttatc aagtttgtca cgggactaga ggacagcctc 840
ggtaccatca agaagaagca gcattcgttc ttcgtgtcgc tgactcttcc tgacgtgcgt 900
ggtgcggatc agatcttgga gcaagcatgt gtgggctctg atgtcttcac cacggggctg 960
gaaggatccg cggtggtcaa atcatca 987

<210> 1522
<211> 297
<212> DNA
<213> A.fumigatus

<400> 1522
gtgagtgaag accagcagag tttaactagt gtaaagagat tacttattct taatagccat 60
tctagccacc agactgcaga atttgatgct ttctataagg aaaatgtaat tatttacctt 120
tatatactac cttatacttc ccaccttcta cagccactgg atgttggcgt ttttggcccg 180
ctgaaacgcg catataggaa gttagttaaa ggaataatgg ttgtaggaaa caactatatt 240
gataaagaag actttctgca cctatatcca cctgcacatg aaaaagtctt taattaa 297

<210> 1523
<211> 252
<212> DNA
<213> A.fumigatus

<400> 1523
tgcaggaaaa gaccaatagg cgtgctctct aatattggaa taatcccaca agcatcatgt 60
actttccttt ctcgtatcaa acactcactg aaagcagcaa gcagtgacat tgacaacctc 120
aactacatca ttcaagcctg ccaagtggca cgcaacgcag acgacttcac tgtgtatgcc 180
atcctatatg ccaaatccgc agacagaccc tgtgagaatg agttaggaag ctcgattcgg 240
cctcgaacat ga 252

<210> 1524

<211> 210
<212> DNA
<213> A.fumigatus

<400> 1524
acgtcaagtg ccgtcccacg cgtctctatc atcacctccg cattcgcgct tttcgtgtca 60
ctcgatcagg ttcctatcca agtactgtcg aatggtctcg cctatatcag aatgaatgac 120
gtgacaaact ccttgctcac agagcatttc agctatacgc ctttggttcg ttttcgtcca 180
ccgagatcgt cttgcgatgg gcaattgtga 210

<210> 1525
<211> 447
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (431)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1525
gccatgccga gggctagtac agctcctggc gcgcggctcc gatgcaggag agcttgcgac 60
agctgtaaac ggagaaagca gaaatgtaac ggagaacagc cgtgtacgat ctgcatacag 120
cgtcgcaagg aagcggaatg caacttctca gacaaaccgg cccgtttact aaaggctaat 180
gctcctaagg agactatgct tcttagtgag cacatggtgc cgactccgca gaggcaaacg 240
accatggatc gcctactgaa cgccctcgag gatcatagcg cagacttgga gcaacagaca 300
acggatgaca acgacgggac ggcgcctgtg cctaaagttc ctaggctgct tcctgatggg 360
caaggaaaat tcatgtattt tgggcgattc tgcaaacttt tcttttctgc caaagtgtta 420
cttcgtatcc ntccctttgg tcaataa 447

<210> 1526
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1526
tggaagacgc ttccacatcc tacaatgcca ggacaagttg gtgggcatga aggagtgggc 60
aaagtcgtca agctcgggcc gggagctgaa tcgtctggtt tgaagattgg agacagagtt 120
ggcgtcaaat ggatctcgag tgcttgtgga aattgccgta tgtgccatcc gatattccaa 180
agctttcatg tggtaatctc ggcctga 207

<210> 1527
<211> 786
<212> DNA
<213> A.fumigatus

<400> 1527
caaacaagct ttgcagaacc atgccaggcg ggctccgacg gactctgctt taagcagaaa 60
atttccgggt attatacccc gggcacattc cagcagtaca ccgtagggcc agcgaactat 120
gtcacaccga ttccagacgg gcttgcctca gacgaggcag ccccaatgct ctgtgcgggc 180
gtcacagtct atgctgccct taagagaagc cgcgtccgac cagggcagtg ggtcgtcatc 240
tctggcgctg gtggtggact gggacacttg gcagtccaac tagccagcag gggaatgggt 300
ctgcgcgtgg ttggcatcga ccacggcagt aaagaagaac tagtcaaggc ctctggcgca 360
gaccactttg tggacatcac caaattcccc tccgacgaca acggcgcggc tatcgccgct 420
catgtccagt cgctgaccga tggccttggt gcacatgccg ctcttgtctg caccgcttcg 480
aatgccgcat atgcacaggc tctcctcatg ctacgtttta acggcacgct tgtgtgcgtg 540

ggtatccccg agcatactcc tgtacctatc gcaacagcaa ctccgggaat tatggtcgct 600
aagcattaca cgatcactgg ctcggccgtt ggaaaccgaa cggaagctat cgagacttta 660
gatttggcag cacggggtgt cctcaaggct cacttccgca ctgagaaatt ggaaaacttg 720
acagcggttt ttcaggaaat gggcgaggta aaacttcaag gaagagtgtt tctggatttg 780
tcttaa 786

<210> 1528
<211> 1194
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (35)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1528
cgccctgcgc ggattttcga cgtctgtgtg agaanaccca acgccgggac tgctgttcac 60
ggatccttgg attatatgat cgttcaatcg gatactcatg ggcagcttct tatcgctcaa 120
tcgcggcttg agtacctgga acatatgttg aaggaggatc tgaccgttat cattccgtct 180
attcgtggct cggagctagc agaccagaca aagtatcgac cgcttttcaa gtcagccgac 240
gcggaaccgc agccgatcat agctgcggac tttgtcactg ccgactcggg ttcagggctt 300
gtgcattgcg ctcctggtca tggtatggac gactatgaag cttgtgttcc tcgcggcatt 360
cctgcgtttg ctcccgttga tgaccatggt agattcaccg acaaggccat gcccagtgat 420
ccaacgaggc tgagtgggaa aagtgtcctg ggagaaggga ctgtcgctgt gctcgagtac 480
attgagtcgc aaggctacct actggcaaaa catgagtacg agcataagta tccgtacgat 540
tggaggtcca agcttccaat catcattcga gcaactgaac aatggtttgc ggatgtagca 600
gacatccgtg acagcgctgt aaaggctttg gaggatgtca gattcgtccc cagttctgga 660
aagcaacgcc tggagaactt tgtgcagaac cgtagcgaat ggtgcatttc acgccaacgt 720
gcctggggtg tcccaattcc tgccctttat aatcgggcca caggcgatgc tgtgctcacc 780
cgggacagcg tctcgcacat catgtctgtg atcgacgaac gaggcattga tgcatggtgg 840
actgacgata tgaatgaccc tgcttggatt ccgcccacac tgcgagaaga gtccgcttcc 900
ggctacaggc gcggcactga caccatggat gtgtggtttg atagcggtac aagctggaca 960
gagattgaca cccctcctcg tgatggatgt ccagcggatg tttacctcga aggcactgac 1020
cagcaccgcg gctggttcca gtccggactt ctcacataca tttctcatca gcttgcttca 1080
gggcagactg ctactcctcg agcgccattc aagaaccttg tcacccatgg gtttactctc 1140
gacgaagaag cacgcaagat gagtatctta accgcggcgt ggcgatatga gtca 1194

<210> 1529
<211> 513
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (201)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1529
ggtgatcccg tggttgcgcc aattttgaag caccccgatt tctatcatat ttgggcatcc 60
acccgtgatc ctgccagacc cggtgcacca gaattcattg cccgcggcgt tgaaatcccg 120
cgtgcagacg tggacgaggg cagagaagat cttactgctg ccttcgatgg cgcacacatt 180
atttatgcac tgacagattt ntggcagaag cagtctgcca cggcggaggt cgagcaggga 240
aaagctatcg cagatgctgc cgccgcgaca acaaccctcc aacactttgt ctggagcgct 300
ctgcctgacc cagtcgccct gtcgggccgc cagtttctca atgtacatca ctggaagggc 360
aagagcttgg tcaccgagta catccagaaa gagaaacccg aactgtgggc gaagaccacc 420

accatccttt tccccaatta ctttgaaaac tgtctgacca gccccggccg gtatctgccc 480
gtcaaagtaa gacagccttc cagcctggca taa 513

<210> 1530
<211> 375
<212> DNA
<213> A.fumigatus

<400> 1530
gacagccttc cagcctggca taaacggaga tggaatggcg gagtactcac gttggagatc 60
tcgactcagg acgaagcggg tacctatact ctcaaatttc ctcacagtcc gaacacggtg 120
atgcccaacg ttgctatcgc tgatacgggc aagctcgtcc acctggtcgt cgaagccggt 180
tcggcctact tcacgaaggt tattgcgttc tgggcccaag ccctgtcgga ggcggagaag 240
ctggctgaac tggggaattg tatggttact cccaatcata ctgtccacat ttctaaattc 300
gatgttagac cacaatgtcc caactcgcta ccacccgtcc agcccctatt cgccacggac 360
tggaagatcc gcgtc 375

<210> 1531
<211> 723
<212> DNA
<213> A.fumigatus

<400> 1531
ttagcgcggt tccttccagc cccggtgtgt gaagaccagc agcagcagga gcaagcgatg 60
gctgccgctc aacaagcgat cgtacagaat caactggagc gcagccgaag ccaacgtcaa 120
cagcagtcac gcgggccaga acctaaacag cccacgcaaa tggggcattc gcagcacgcc 180
aatgatcata ctaccgcgtt gcaaagcccc cagaaggcgc agcccgttcc agcagctcgt 240
cctcgacagc gcgctcgtca aagtaatgct gtggacgtta gggcgcggtt gcttgccatc 300
tgtactccag gtgatccgac gaagctttac tataatctga acaagatcgg tcaaggagca 360
tcgggcggcg tttacactgc ttatcaacat ggcacgaaca actgcgtcgc aattaagcaa 420
atgaacctgg acttacaacc aaagaaagag cttataatca acgagatcct cgttatgaaa 480
gatagcaaac acaaaaacat tgtcaacttc ctcgacagct acctccatgg cttggatctg 540
tgggtagtga tggaatatat ggagggcggt aacctcacca ccttctcccc ttccttcttc 600
ttacccatgc cattacccct ccttcctctc cgaaaggttt cccctccctc cgtaaactcc 660
ccctctgctg ccacatctct tgtcttttcc ttaacttctt cctcctccct cggaattcgt 720
tga 723

<210> 1532
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1532
ttttggaccc ttcacactct cactcgggct tactcaaaac tcatctcacc tgcgctctat 60
gcaatcagcg agatctccac tcacacatgg aagtccgccc cctttgctcg cccatggacg 120
cgttgtccgc ataaaacggg catctatgct gaacattggt tactgccgac aagaaggatg 180
caatggtga 189

<210> 1533
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1533
caaccctcct cgatcaagat catcaatttg actaaccaga gtcgctgtct ggcacagacc 60
acgaccttct gctttacaaa ctcggaagac ttccctctct gctcgcacat cgcgaagctc 120

atgaccggag aaacaaagtt ccctctgttg agccacatgc cttccgtctc tgacacaaac 180
tga 183

<210> 1534
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1534
aacactatcc tcaagtccct cattgcagca accgcaccag agtctccctc gacatcacct 60
ccataccggt tcaccgtcaa cagcaccatc gttcagcaag gcttgatcga taagtcttcc 120
gcagcagacg gggccgtcag taatgccggc aagcgtggaa tgcactctgc ctcaggcgcc 180
ttttgggatg tcaaccgtga tggaatgtgg acatttaagt accctggggc tgaagagcgg 240
ggcctcgatg tcattgtcag tgtggcatgg tttgctctgg gctag 285

<210> 1535
<211> 252
<212> DNA
<213> A.fumigatus

<400> 1535
gcccttggtt ctaggggcca tgtctacttt tgcgcaatgt tcaaggaccc cgaattaact 60
cgtattgtcc caatctgcac tttcaaagct cataaagact atctcacgcg ggtctttctt 120
tctcctgacg tcaggcattt ggcgacttgc tctgccgacc atacgctaaa ggtctggaat 180
ctcgatcctg atttcccccc cggccaagat ggcagcgata acagcagcca aggccagagc 240
cactggcaat ga 252

<210> 1536
<211> 510
<212> DNA
<213> A.fumigatus

<400> 1536
aggtctggaa tctcgatcct gatttccccc ccggccaaga tggcagcgat aacagcagcc 60
aaggccagag ccactggcaa tgaatcgcct gtgccggaag ccaaagagcc tgtagcgaca 120
gatcccgttg cctccccgac atcacccaag gtccaggacc ttcacgttgg cgctgacctg 180
ggaagaagcg gggagctgaa cccgattacc tacatcagag gtaatgctcc tgcgaatccg 240
gagccgcagc agactttccc agtgcaaccg gatgggcctc ccatggatat ggctacagga 300
acgccttttc tagagaccac attagccaat catcagcgct gggtgtggga ttgcgcattc 360
tctgcagatt ccgcctatct tgtcaccgtt tcgagtgatc actatgcgcg tctgtgggag 420
ctggcttcgg gtcaaatcat tcgtcaatac agcgggcatc accgcggagc ggtatgtgtc 480
gcattgaacg actattcaga accacgttga 510

<210> 1537
<211> 666
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (602)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1537
gccagttctt acttgtgtat atatcaaaac aaacgcatag ggataaaagt cgatgctctc 60
cttcttggtc caattccccc accggcaatt caatgctcgt ttgactgcct gaacaacatt 120

atgggacact cggtcatctc gcctgccatc ttctactggg gcaccccggt cgttcttgcg 180
acaacggtca acaaagacgg aacgccgaat atcgcgccta tctcatccgc ctggtggttg 240
ggaaatcgag ctgtcctagg gcttggacga agttctcaga caatcgccaa catcatccgc 300
acgcgacagt gcgtgctcaa tctcccaggc gatgatatgg tccaatgtgt taatgctctg 360
gcgcggacaa ctggcgccaa agacgtgccg gcaagcaaga cccagcgagg ctatcgagat 420
gagaaagaca agttcggcat cgcgggattg actcccgaat cttcgcatct tgtacagcct 480
ccacggattc aggaatgccc ggttcagatg gaagctgagg tcgctggaac ccacgagctt 540
ttcacagatg gtccaatcga gttacaggga tgcgtcatgg cgattgaagt ccacatcctg 600
angaactatg tcacggaaaa actgcggctt gctgcgtatg cgaacacgat cgatcccgat 660
aaatga 666

<210> 1538
<211> 1170
<212> DNA
<213> A.fumigatus

<400> 1538
ggcatggacg aacgacgcgc caaatttcga caggatctca tctctgaggt taaaccatgg 60
tcaatgaata aacgaggtcc tcgtcgctgg cagcgacacc tgcatcactt ccgtcatgat 120
gagggtccgg agtcagagaa accgaatggt ctaccatcca ttgtcgtgaa cgatgacgcg 180
aacgtggaga acgggccgcg acacacacca ggccgaacgg atcaagagga aacggaatcc 240
gtctaccgca gtgcagatgg atcgcgtgcc ggaagcattc gcagtgcaca ccattatcgt 300
tcatcctcgc cgctgaagag aacgaaattc gggttggctg tacctatgat gaacccatct 360
acagaagatt tagcatcagt taagagtggt aactcgatgc tttcgcttca ggtgccggaa 420
accggaagtc gggctcctag cgagtacgat gaagatgacg aagatgaaaa gcatcaggac 480
attcaagaag tctggtttcc cggcggacac gcggacatcg gcgggggttg gaaacttggc 540
gagggcgaag aatggcctct tagtcatgca ccactggtat ggatggtaca cgaggcagag 600
cgtgcgggcc ttcagtttga cccgcgcaag ctcaaaaagt tcgaatgttg cgaagagtat 660
gacggggaga tttcgccttt gcatgagcat ctccattggg aacagaatat ggatatgtgt 720
caagatccaa gccatggaga agatgatgat gagcacatga gattcgcccg aaaggaggat 780
gaacagaacg cgtctaaatc caagcgcaga tttttggaag ctctgtacga gtccagcacg 840
aaaggaatcc tgcatgattg tttggcttat ggcaatgggc tgccattcac gtcagtcttg 900
tcgtggcgga tcatggagta tcttccattc cgtcgcatgg atttgcagga cgatggctct 960
tggaaaccga tccggtggcc tcttcccctg tggagaggtg cgagatattc ccaaggatgc 1020
tcaaatccat gtctcggcca ttcgccgcat gaaggccaat cccgagtacc gaccgggcaa 1080
cctaatcatt ggcggcggcg gacgtggtgt caaaagagct ccagcagagt acggcatgtc 1140
cttcaccaca gggctgaaag atccacgtcc 1170

<210> 1539
<211> 1128
<212> DNA
<213> A.fumigatus

<400> 1539
catcttcgac gcgtgagttc gaatttgggc ccgcagcaac atcatggaac tccaccgccc 60
ccgccacaaa atgggttcgc atatattcca aatccctcga tgtatcatcc caatgccaac 120
cccaacatag cccaacaacc gcgcccaccc caattcgcac actatggacc gcaacagcca 180
ctaccgccgc acgcaatacc tccacatccc atgcctcaac cagtcccgcc gcaccatcaa 240
gccccgcagc atctccccca acatccacat ccgcttgctc agcagacacc tgcgatggga 300
ctctcgcaac cgcctcatgc gtcaatacca caggtcgcgc agcctttctt gcccgaacaa 360
gggagaaact cgatccctcc tgcgtttccg acagagcagt cgcaaccacc tcgaccggta 420
tccctacccg atgtttcctc ggcagatcag atggttggtc cattaaaggt ggaaacaagt 480
ccctctcctc cgcaccagcg atcgctgtca tccaaatcgc gcagtatctt cacgccgatc 540
gatgaccgcg gctccgttct ggcccgtcac ttcggactcg gcccgcctac gtgcgagtct 600
ccacgcactg agagtgcaga cgtcaaggca gaagcaaaac agaatgactc gaaagaaatc 660
aagccacctg ctcaacctgt tgcgccccca cccccgccta ggaccacagc cgatgcggca 720

cggtctcagt cagctcctga tatcaagcca ccgccacgaa cgaatagtgg tcaactgccc 780
tcgaagcggc cacagcttaa ggtgcaaata ccaagcgaaa attctgaccg gggaagtgct 840
acagcagatt cttcgtcgtc caccggcaac caaaccgtga ctcctgccaa ggctaatccc 900
gacaccaatc actccggcgt ggttctccct ccaccgtcgc catctgccgg agcaattctg 960
agtgctggcg ccacagggcc cccaaatccc ttcgctcggc caccgccgcc gggaactgcc 1020
agccagaaca gcaatgcgta caacagcaat aacaacatag agacgccgat ctctgctcta 1080
cccagtcgat ttgtgtcttc accacggggc tggaaggggc cgctatat 1128

<210> 1540
<211> 546
<212> DNA
<213> A.fumigatus

<400> 1540
tcatcttcga cgcgtgagtt cgaatttggg cccgcagcaa catcatggaa ctccaccgcc 60
cccgccacaa aatgggttcg catatattcc aaatccctcg atgtatcatc ccaatgccaa 120
ccccaacata gcccaacaac cgcgcccacc ccaattcgca cactatggac cgcaacagcc 180
actaccgccg cacgcaatac ctccacatcc catgcctcaa ccagtcccgc cgcaccatca 240
agccccgcag catctccccc aacatccaca tccgcttgct cagcagacac ctgcgatggg 300
actctcgcaa ccgcctcatg cgtcaatacc acaggtcgcg cagcctttct tgcccgaaca 360
agggagaaac tcgatccctc ctgcgtttcc gacagagcag tcgcaaccac ctcgaccggt 420
atccctaccc gatgtttcct cggcagatca gatggttggt ccattaaagg tggaaacaag 480
tccctctcct ccgcaccagc gatcgctgtc atccaaatcg cgcagtatct tcacgccgat 540
cgatga 546

<210> 1541
<211> 498
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (17)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1541
gggttcttca ttggggngac tgttcgcccc acaacattta cacatttatt aggccacctt 60
atttctggcc gatatcccgt tcagatgaaa gccgcttatc cactgctcag cgacgaggct 120
cactcggtca ttgtggatct ccctaattac cgctggaatc atccggccaa atactggtac 180
aagcgtgagg tgagcaagga cgggcgtgtt cgcaaggttc cgcatcgcga cctcgggagt 240
gaacctagcc ttggcgcatc catggatacg cacaacggtg tcatggcacg caagaccgag 300
gaactcaatc aaggcatgca gaaaactccg gagacaacag ttttccctgg tgaatatggt 360
gatcttctca gtaagacgct aagcagctta agcagcatgt tgcagttgac ggagccagtc 420
gatccagaag agttgctctc aagctatgga ttggattctc tgtccagaat ccaaccacgc 480
ctttggctga atacatag 498

<210> 1542
<211> 738
<212> DNA
<213> A.fumigatus

<400> 1542
tttcatatcg gcgttgacag taaaagcgga cagtatactg cggctgtcaa gggcccttat 60
ggtgaatggg tgatgaccaa cgacagtcgc gtgatattta cccagactct ggaaaagagt 120
atgagctcgc caggtgctgg aaaggagaat gtttacatac tggcgtatcg acgagtggaa 180
acccagagca attcagctga gtccaataca ggtttatcag ccgctgtcac gtcctccaac 240

cccaaagcat caattactgg ccagagcgtg acctcttcag ggcattccaa tgccggctca 300
tcgaatgaac caggctcaag aaaagggtcg ctcaagggtg gtgtacaaat gaaagggatc 360
attgagctag aagggaggct tatccaatgg acgatcaacc agcagctgct cctggaccca 420
ggtaaaggtg cacttgtggc tctggggccc cgagcaagaa cgcagcgtgc tactctgcag 480
ctcacattaa cttcagaaga caccggcgag atcctcggag gacaagtgac cacgtcgctc 540
aaaccatggg gagtgcagaa gccaaagcga gggccttcaa agactgcaga caccaaagat 600
tccagtgccg gtacgaagaa agcagcagac acagtgtccg ggaaagcagc caagccgaaa 660
ggtgtcacaa agaaaccctc cagtccgcca aaaggaaccc gtcaatcggc gagactccgg 720
agtaaagcta aacaataa 738

<210> 1543
<211> 330
<212> DNA
<213> A.fumigatus

<400> 1543
gcacggatta tcctggagac ggacggggaa ggacagcggg agcttggcgg cggggttgac 60
gttgccgtag agcacgtcgg caatgccgtt gccgcattcg ttgccgccga accaggcctg 120
gaggagggcc ttggctttgt gggcccaggg catggtgacg ggcgtgccgc tctggatgac 180
taccactgtg tcggggtttg cgtcgagcac gcggctgatc atctcgtcgc tgcctggggg 240
gaggtccatg tgatcgcggt cgtagccctc tgtttcccat tcgctggtga gaccggcgaa 300
gataacgact tgggaggcct gggaggctag 330

<210> 1544
<211> 510
<212> DNA
<213> A.fumigatus

<400> 1544
tcctatgaga gctgttcctc cacccctggt gaagaccggg cagacctaca aggtcgtcct 60
gcaattcggc accgctccaa cctccgacct cgacatgcgc ggcgtcgtca tcttcgggcc 120
cggcggcttc cgcttcggcg ccgcccgccg cgtcagccag gaggaactca tctccaaagc 180
tgcagagcta gcctcccagg cctcccaagt cgttatcttc gccggtctca ccagcgaatg 240
ggaaacagag ggctacgacc gcgatcacat ggacctcccc ccaggcagcg acgagatgat 300
cagccgcgtg ctcgacgcaa accccgacac agtggtagtc atccagagcg gcacgcccgt 360
caccatgccc tgggcccaca aagccaaggc cctcctccag gcctggttcg gcggcaacga 420
atgcggcaac ggcattgccg acgtgctcta cggcaacgtc aaccccgccg ccaagctccc 480
gctgtccttc cccgtccgtc tccaggataa 510

<210> 1545
<211> 738
<212> DNA
<213> A.fumigatus

<400> 1545
cctatgagag ctgttcctcc acccctggtg aagaccgggc agacctacaa ggtcgtcctg 60
caattcggca ccgctccaac ctccgacctc gacatgcgcg gcgtcgtcat cttcgggccc 120
ggcggcttcc gcttcggcgc cgcccgccgc gtcagccagg aggaactcat ctccaaagct 180
gcagagctag cctcccaggc ctcccaagtc gttatcttcg ccggtctcac cagcgaatgg 240
gaaacagagg gctacgaccg cgatcacatg gacctccccc caggcagcga cgagatgatc 300
agccgcgtgc tcgacgcaaa ccccgacaca gtggtagtca tccagagcgg cacgcccgtc 360
accatgccct gggcccacaa agccaaggcc ctcctccagg cctggttcgg cggcaacgaa 420
tgcggcaacg gcattgccga cgtgctctac ggcaacgtca accccgccgc caagctcccg 480
ctgtccttcc ccgtccgtct ccaggataat ccgtgcctac ctgaacttcc gctccgagcg 540
cggccgcgtc ctctacggcg aggacatata cgtcggatac cgatactacg agaaggtcga 600
cctggccccg ctcttccgct ttggccacgg cctctcctac acgaccttct cccgctcgga 660

tctgtccctc gccacgaccc ccgagaaacc ccagctggaa gacggcgagc ctatcacggt 720
taccgtctct gtgactaa 738

<210> 1546
<211> 666
<212> DNA
<213> A.fumigatus

<400> 1546
tcatccagag cggcacgccc gtcaccatgc cctgggccca caaagccaag gccctcctcc 60
aggcctggtt cggcggcaac gaatgcggca acggcattgc cgacgtgctc tacggcaacg 120
tcaaccccgc cgccaagctc ccgctgtcct tccccgtccg tctccaggat aatccgtgcc 180
tacctgaact tccgctccga gcgcggccgc gtcctctacg gcgaggacat atacgtcgga 240
taccgatact acgagaaggt cgacctggcc ccgctcttcc cctttggcca cggcctctcc 300
tacacgacct tctcccgctc ggatctgtcc ctcgccacga cccccgagaa accccagctg 360
gaagacggcg agcctatcac ggttaccgtc tctgtgacta atacaggtag tgtggctggc 420
gccgagattg ttcagctgtg ggtggctccg ccgccgacag gcgtgaaccg ccctgtgcgg 480
gaactcaagg gcttcaccaa ggtgttcctg caacccggcg agacgaagaa ggtcgagatc 540
gtggtggaga agaagctggc gacgagctgg tgggacgagc agcgtgagaa gtgggcttcg 600
gagaagggga cgtatgaggt gctggtgaca gggacgggcg acgaggtgct caagtcccgc 660
cttcag 666

<210> 1547
<211> 267
<212> DNA
<213> A.fumigatus

<400> 1547
ccacttgttt ctcctttcct gcgagttact agtctctcca cgggctctct gcacgcgaag 60
attcgccccc cagggacctt cctggccatt cagggtgtcc atggcattct gagcctcttc 120
cgtgctgcta aattcgacga acaaatagta gtggtctcca ggctcgaatc ccttcccagg 180
gtgaggtgtg aacaatttgc tgacattttc actttttttt tttttggaac aaattactct 240
ccaaattgga aagtccattc tacagag 267

<210> 1548
<211> 198
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (146)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1548
aagaaacttt atcggtttga gagtcatttc accgtggcag taaacagaat caacgcttat 60
tcttgtgatg cgaataggat atggacacgg gcggtcaggg gcccacggtt gaatcaaacc 120
accggaacca accaatgcgg tgatanaaac ggtaagagcc aaccggcaga acagtttatt 180
tcaggcatta tccgcatc 198

<210> 1549
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1549

ttaaccaacc gaaacacctg tcctgtggac gtggtcggaa ggtcgagcgc tgtgtccctt 60
gcacgcccta tcaatgacag tcggcagccc agcccaatca cagacggacc ctgcggcact 120
ctcagctcgt tctacgcctt tgacatgatc aggtcgaagt atatttatca aaagaaaatt 180
ttattggtat ataagaacta a 201

<210> 1550
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1550
cgatgtatat ttatcattca aagcattcat tcaaagcata cgcagggaag acaagaagag 60
aacgaacaaa caggaaagga aacttttcct atgacccctc tcatgtccaa catgtgtgac 120
actcgctcat cagatactaa cgtccctcat gtggactcaa accccaacag cgctagggta 180
gaacggatct ccgatcgacg cctgatcttg ctgggcgacg gctccagttt gtttcggact 240
gggaatattg ataggtgctg a 261

<210> 1551
<211> 468
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (90)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1551
tcctcagctg ccccgagtat gccgggaagc tcggctgcca gttttaccgg tagctttgga 60
attgcgccgt ctggagtcaa ttccggtctn tcgaccgact ggggaagcaa cttctctgcc 120
ggtgtttctt ctttctccac gcctgccact gggtcagtcg accaattcgt tcagatggga 180
ttcgaaccgg agtttctgca acaactcaat gatcggtatg gtgaaatgca tattgacgag 240
atggatggca tgatgtttgg agtagaacaa gaacatacgc gcaatagcgc gttagtaccc 300
gagggcgacg tatacaaact ggcaggctct accgatgctg ctgcaccgct ctccaacgtc 360
gggtcagcac ctatcaatat tcccagtccg aaacaaactg gagccgtcgc ccagcaagat 420
caggcgtcga tcggagatcc gttctaccct agcgctgttg gggtttga 468

<210> 1552
<211> 672
<212> DNA
<213> A.fumigatus

<400> 1552
aagatcaggt cggtctccca cccaacccag gtcacgatca tcacggtcgt gggccaagcc 60
ggtgctttcg tcggtgccaa tttcttcggc tacattagta ctttctttgg tcgccgctta 120
accatgatgg tgacctgtgt tatcggtggt gccttggttc ccgtgtatat tctgccccgc 180
gacatgagct tgatcgccgc cgtcttctgg cagcagttct gcgtcggtgg tgtctggggg 240
ccgatcccga ttcatctgat ggaagtgaat ccccctgcgc ttcgctcact tctagttggc 300
ttgacgtatc agctgggaaa tcttgcctcg tctgcatcag ctacgatcca gtcgacgatt 360
gggtcgcggt atcctttgcc tcccattgaa gctaataaga agcgcttcga ttacggcaag 420
gttattggga ttttcctggg tgccgtctgg gcgtatatcc tgtttttcct cttctggggg 480
ccggagatag ccgcggaaga aagggaggag gaagcagagg cggctaagta cctggaaaac 540
cttcgttcag agggggtcag tctggctgag attggagttg tgcaggcgag gaaggccaag 600
ggggctggga tgccacctcg agataatgat gaagagaagg ggaatgaggc cattaccgag 660
cacattgagt ga 672

<210> 1553
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1553
catttgcttt atccattctt tggcggcctt gccagaatct gcgagatcgc ccagtcgtac 60
gagaaggcgt acggtgtcaa ggccgatctc cagcgattgg gatccttaga tgatccgtac 120
aaactcatgc acgagaaacg cgagcagaat ccctccgaca tctacagcta catgtcgttg 180
tatgtacttc cctgggccct tttttccact ggactgatag gtgtccgata ctga 234

<210> 1554
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1554
gtgtccgata ctgacggatt tgacaggttt ttctactact actgggtcaa cggtcagacc 60
ctggttggcc ccgagacgga caatgccaag taccccgagg taaagcctgt cagctgggaa 120
ggttttatgt cgcagtggcc gttgcagcaa ttgcccacag cgtactttgc tctgaatgct 180
tag 183

<210> 1555
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1555
gaactgacta ataggagcac agacgttttg gaaatgagca ttgtttctgc tgatggacga 60
caccgagtga tcaatgcgta ttcggatcca gagtactttt gggctgtgcg cggcggcggg 120
ggaagtgcct ggggtgtatg tgacctatgc tatataccag agccgcggat atattggatt 180
ggcgctgacc tgttcatcct caggttgtta catcggtga 219

<210> 1556
<211> 267
<212> DNA
<213> A.fumigatus

<400> 1556
cctgttcatc ctcaggttgt tacatcggtg acttacaaaa ctcatcctgt tccacagaac 60
ctcactattg ggttcgttca actaaacgca accgacaggt ccagctccac ccgcctcact 120
tctgaatccc taaaactcat cccagccgtt acagacgcag gctataccgg gtatggctcg 180
tttacgcagg gcttccaagc aatcttcctc caacccaacg ggacaataga atcttttaac 240
cagacttttg ctccgttttc taactag 267

<210> 1557
<211> 264
<212> DNA
<213> A.fumigatus

<400> 1557
acacagcttc ccggtgtcac tggagcgctt gcagcctatt ctgcgacctg gaacgactat 60
ttgagaaccc tcctgcaaga ccctaatatt gggactaaca ttcaggacac gtcacgacta 120
ttgacagcgg aggtaatccg agataaagcc gacgatttgg cggagttgat tgtcgacaat 180
gatcaagctg caggatttaa cttcagtaag gagggtcctg ttttcagcag ttggttccat 240
caggttaatc cgtcactggt ttag 264

<210> 1558
<211> 573
<212> DNA
<213> A.fumigatus

<400> 1558
ttctcgagaa cttcgctgtg tagatgcgat ccgctcattg gccagcacac tcccacatcg 60
aatcgatcga acggagcctt acgtcttgag atggccaaca acttcaataa tggcgactac 120
tatggcaata cctcattccg tatgactccc acgacctctg gtagccagtc caacacctct 180
catgccgccc ttgactgtag caacgccgac atgatgatga tgacatttgc gccttttgat 240
cccctccgaa tgggcgactt ttctttctct gaatctcatg ggtcagatat gctgtcgagc 300
ggcatatcag cagacgagct gctgggttct agctcgtctc ttcctgcgcc ccctgtgccg 360
ttggctgacc aattgcccaa tgcattgttc ccgtatgacc cgctgtctgg catggagaac 420
tcggtgccca tggcactgga cgctgcaagt gcaattgcat acggccattc ttccgtatac 480
caacaatcct ccttgatgtt tgaacagacc ttcaatggac agccaatgca gcagcttcct 540
tcgtttcaga accagactat gagcctagta ttt 573

<210> 1559
<211> 186
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (80)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1559
gccacggcgc atatctttca atctgctccc gaggttttgg gcggttattt atggtatatc 60
caattctcct gttgtgcttn tcaaggtaac cttttcttca aatcctttga tggttttcga 120
tattatcagg gccctttttct gagtccgact cacgctttgc ttcttttagt ggcacagggg 180
aactaa 186

<210> 1560
<211> 360
<212> DNA
<213> A.fumigatus

<400> 1560
gtttgcagat tgtcactgag ccttttttact ctttggacaa ttctaaccga cggccacttg 60
atagaggtcc tctcagtccc taagaacatg aagctgctcg ccgtgccgtt attcgagctg 120
tacgacaata cagcgcgtta cggcccgcaa ctctctgcca ttcctcatct gctatcccgc 180
tataactttg agtttgttga tgagaacgac aatgttgtcg cagccacgcc gggggcgccc 240
cttcctgagc accagatccc ccggaccaag gttctcgcag gcgaaaccaa cgacgggcag 300
gacgccggta tgacggacta cactgaaggc ggggagaatg gaggggagaa cgcgcagtaa 360

<210> 1561
<211> 288
<212> DNA
<213> A.fumigatus

<400> 1561
tgctccttgt gctcaagacc aggtgactat cttcacttcg acgatgacga ggttgaaggc 60
ttcaagaagc ggctgaacga gcgtctggcg ccggtgggat cccaattctc aggcgaaggc 120
gtcaatgaag actgggagat tggtgatacc cttgcgcagt ggtggcggcc gaatttcgag 180

acgtttatgt atccttttct tcccggacac gttacgcggc ctaaggagtg caagaaattg 240
tacttcattc agctgcctaa gaagagtaag tttgcagatt gtcactga 288

<210> 1562
<211> 600
<212> DNA
<213> A.fumigatus

<400> 1562
ttggggcgca tggtcgcgct gcacacagag ctaccgatca ttgccgatgc ggataccggt 60
ttcggcggac cgctcgacat ttctcgcact gtgcgactgt atgaacacgc gggaatcgcg 120
ggactgcaca tcgaagacca ggtaatggca ggctcgcgat ccagatgtgc cttgatctgt 180
attgacgcgc aatcccatca ggtcttcccc aagcggtgtg gccagctcca agggaaagat 240
gtcgtggccc tggaagtatt cattgagggc gtccgcagcg ccgtcgaggc acgccaggat 300
ccggactttg tcatcattgc gcgaacggat gcgcggcaag ccaagaggtt tggcgggcca 360
cacgccggat cggaggcctt ccatgaaggg atcaagcggc tcaaggctgc tgtagccgcg 420
ggggccgata tggtcttcat ggaatgcccg cgcaccgagg acgagtgtcg gactctggtc 480
aaggagatgg gagatgtgcc cgttccgatc aatgtccttc ccaatgtaag caagtccgga 540
tttgaggata catcgcggta tgctggtctt caccacgggg ctggccggat ccgcgcttaa 600

<210> 1563
<211> 366
<212> DNA
<213> A.fumigatus

<400> 1563
gagctatgtc catctatcgg cgtcgtgcaa ataaaactcg gtgatctaga atcacaaaac 60
gaggatgtct ccacagacct gacatggtct actatactga agtggggtat catcacctat 120
accagcatgc tcattgtgtt catcagcata tgcaactgtt gtccttcact catcgaagta 180
cggctgcttt cactgctatc ccacagaagc tcctctggcc cctttcttgc gtattcccac 240
aatgttggcc attttcggaa accgacgggg tttgacatcg ttgcactggt gccctacaag 300
catcatgagc agacgtctgt tttggactgt tatctgcagg tattgttgga tcttatcctg 360
ttctga 366

<210> 1564
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1564
ctacccccct tatctccttt atttttttat ttgttattca cccttatctc cactacctcc 60
ttaatctact ttacaagctt cttatttttt aatagagcta ctgcctcctt tactagctct 120
attattatta ttattactat tcactattat tactctcctc taattatata ttattataaa 180
taa 183

<210> 1565
<211> 297
<212> DNA
<213> A.fumigatus

<400> 1565
agtacgtgcg ctttgccttg gggtgtacgt atagtacagc accggggaaa aagacgagaa 60
gaagcagaaa ccagaacaaa cgacaaagca aattatcaac attatctctc tattacttgc 120
aaggattcct ctcttattcc actattctat ttgatcttct ttcctatctg gttggtcgca 180
aatttgttct acactctcgc caccaagtcc actcgcttgt ttcccgtcct tttcccttcc 240
cctactatta ctacctctac cttggtcact ctcatcggct accctccact cgcataa 297

<210> 1566
<211> 594
<212> DNA
<213> A.fumigatus

<400> 1566
gtactacacc gcaagtatcg ttgtgggaac tttagcgctc gcttatggct ccgttcctct 60
atacaaaatg gtgcgtggaa gccttactgg aggtttgctg gttctagccc agacataaac 120
ctgaacaatc ttcccttgca ggtttgtcaa cagatcggct ggaacggtca accagtactc 180
acacaccgga ccggagacgg tgacacctca tcgcgcgtga cgccagtgac cgatgctcgt 240
cgtcttcgaa tcaccttcaa tggttcagtg tcagacgtcc ttccttggaa atttacacca 300
cagcagcgtg aagtctgtgt gttgcccggt gagacggcac ttgcttttta taccgcgaca 360
aataaaggcc cgacggacat tatcggtgtt gcaacataca gtgttactcc tggtcaggtc 420
gccccatatt tcagcaagat acagtgcttc tgctttgaag agcagaaatt gaatgctgga 480
gagtctgttg atatgcctgt gttcttcttc attgacccgg attttgtgaa agatccggcc 540
atgaagggca tcgacaccat cactttgtcg tatactttct tcagtaagag atga 594

<210> 1567
<211> 546
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (41),(77)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1567
gtagatgcta acatgtttca gggctcagtg gccaaggcgg ngacattgta tgtcattaca 60
gcctactgtg tacctgntac aatacaggct aacgcgaacg aacagccaat gaacccaaca 120
tgggtaatgg aactgccgcg cggcgacgaa aagggagcat tcttcacgat ggacatggga 180
ggcaccaact tccgcgtctg caaagtgaca ctcaacggca ccgcaggcaa atacgacgtg 240
atccaaatgg acaacaagat ccccaagtcg ttgaagtctg gcaccgcaga gcaactgtgg 300
cactacgttg ccgactgcct gcagcagttt gtcgatcgct attccatctc gcagaaagag 360
ctcgcggaga cgcctctggc ctttacattt tcctaccctg tcactcaaac atccatctcg 420
catggcatcc tccagcgatg gactaaggga tttgatatca agggtgtcga gggaacagac 480
gttgttgctg cactgcaaaa ggttctcaaa gacaaggtca gtcctacttc ggtccttttt 540
gcctag 546

<210> 1568
<211> 618
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (357)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1568
aatctccccg ctcggatcgt cgccttggtt aacgacacag tgggtacctt aatggcgtct 60
tcctacgtcg accccaagac cgaaatcggt agcatcttcg gcacaggcag taacgcagcg 120
tacatggagc agtgctccaa gatcccgaaa ctggccgatc agcatctacc cgacgacgca 180
ttcatggcca tcaactgcga atacggcgcc tttgataaca gccagcgagt gctccctttc 240
actgtcttcg atgccgagat cgaccgcgct tcacctcggc ccgggcaaca acgctatgag 300

aagatggttg cgggattcta tctgggtgag atcttcccgc tcatcttgct tgatctncac 360
aaccgcaagg tcatctttga cggtcagaat tcctcgaaac taagcgaacc ttatgtgctg 420
gactgcctgt ttctggcgac tattgagagc gatattctgg ggacctgcaa accagggaag 480
atacttttga gaaaacactc ttcattacgc ctaccccgcc tggactacgc ttttgctaac 540
acctgcggca caccaattcc ttgcgctggc gaagatatac ccgggcggat tgggggggaa 600
tataaaaaac cggggatt 618

<210> 1569
<211> 942
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (892),(917),(923),(926)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1569
atgatggaaa atgatactat acgacttagc gagcgtcctt acggatctcc cgtacgcgag 60
tcgccgtcgc aaatcacacc tgcggcgaca ccctcatcct catctgtatt atctggctct 120
ggaaataggg ttacagcccc tgcgcaggta ttcatccaag aaaaggactt gtgcttatca 180
gatctaaact catacgttgc cgtcggcgtc ctgagaaagc gcaacgaacc tcacgatgtc 240
gatgccgacc cttgggcgga cgacgacaag tatccagggg cggagattgc aatgctgaag 300
aaaggcaatt gggtacgaac atgcgaatat acatatgtga agcatccgca atggtgctat 360
gtccgtgtct atgtcctgcc tgacgatgct gggcacaagt acgttgaccg ttcaagcaag 420
acattgaggg aggcacttaa agttgtcatg tcgaaagtca atcggtccgt cgatgcatgg 480
gatggtatct tcttttcgga tgagcaagtt accgatggca attcgaatga taccggtacc 540
gaggacgagt cactgtggta catattcaac acactgcgaa atcccgagcc gcaagttgaa 600
gccgtgaaag acccttacgc gaggctcgcc atgcgacaat tactttcaga ggaggatgct 660
ggcgacacag tactcgattc tggtgtcgaa gggctcaaaa caccttgta cccataccag 720
cgtcgctcag cagctttcat ggtccaacgt gaagcgcagc cagcccagat gttggaccct 780
cgtctgcagt tattcaaggc ccccaatgga cgcgagtact actacgacga agaagaaggc 840
accatttaca aagagaagaa gctgtattca gaagcttgtg ggggcatcct ancggaaact 900
atggggtgtt gggtttnaaa aanggnaaac cccaattttt ga 942

<210> 1570
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1570
ggttcgttgc gctttctcag gacgccgacg gcaacgtatg agtttagatc tgataagcac 60
aagtcctttt cttggatgaa tacctgcgca ggggctgtaa ccctatttcc agagccagat 120
aatacagatg aggatgaggg tgtcgccgca ggtgtgattt gcgacggcga ctcgcgtacg 180
ggagatccgt aa 192

<210> 1571
<211> 594
<212> DNA
<213> A.fumigatus

<400> 1571
tccgttgatg cagcttttgt ccgcccaatc tacgctggaa atgccatcct caccgttcaa 60
tcgaccgatc ccatcaaggt gatcacagtc agaggcactg cattccaggg tactgagacc 120
gagggcggct ctgctgaggt cgtcgaggga gctgacccca aggctcccgc tcagaccgag 180
tgggtatctg aagagctcgc caagtctgag cgccctgatc tggctactgc ctctcgcgtc 240

gtgtctggtg gtcgtggcct gaaatcgaaa gaggagttcg accgcatcat ggtgcctctt 300
gctgacgcct tgggagctgc aattggtgct tcccgcgctg cggttgacag tggatttgcc 360
gacaacagtc ttcaggttgg ccagacaggc aagaacgttg cgcctcagct ctacttgtgt 420
gctggtattt cgggtgccat ccagcacctt gctggtatga aggacagcaa ggtcattgct 480
gctatcaaca aggatcctga tgctcctatc ttccaggttg ctgatgtagg ccttgttggc 540
gatcttttcg agaaagtccc agagcttacc gagaagctga agagccaggc gtaa 594

<210> 1572
<211> 438
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (24),(25),(26),(27),(28),(29),(30),(32),(37),(38),(47)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1572
ggagaggagg ggaggtatct ttannnnnnn cntttannaa tggaacnact ctctgtacct 60
tccagccccg tggtgaagac aagcgatcta tatgcttttt tgcaggtgct gatgctcatt 120
gaaatccagg ggctgcccga gaactatgct cctcttcttg tggagaatat caagaagggc 180
gaatataccc acgtcgtcgc ggggcattct gcctttggaa agagtctctt gcctcgtgtt 240
gcggctctgc tcgatgtgca acagatctcc gatattacag caattgagag cgaggacagt 300
atgtggcccc cggatcgagt ctcgttggac tacgtgatga gtcattcgca tattaatccg 360
ttgatgcagc ttttgtccgc ccaatctacg ctggaaatgc catcctcacc gttcaatcga 420
ccgatcccat caaggtga 438

<210> 1573
<211> 648
<212> DNA
<213> A.fumigatus

<400> 1573
aaaatcataa aaggtacttc cgcaatgaga tctttgtatt tacgcctggc tcttcagctt 60
ctcggtaagc tctgggactt tctcgaaaag atcgccaaca aggcctacat cagcaacctg 120
gaagatagga gcatcaggat ccttgttgat agcagcaatg accttgctgt ccttcatacc 180
agcaaggtgc tggatggcac ccgaaatacc agcacacaag tagagctgag gcgcaacgtt 240
cttgcctgtc tggccaacct gaagactgtt gtcggcaaat ccactgtcaa ccgcagcgcg 300
ggaagcacca attgcagctc ccaaggcgtc agcaagaggc accatgatgc ggtcgaactc 360
ctctttcgat ttcaggccac gaccaccaga cacgacgcga gaggcagtag ccagatcagg 420
gcgctcagac ttggcgagct cttcagatac ccactcggtc tgagcgggag ccttggggtc 480
agctccctcg acgacctcag cagagccgcc ctcggtctca gtaccctgga atgcagtgcc 540
tctgactgtg atcaccttga tgggatcggt cgattgaacg gtgaggatgg catttccagc 600
gtagattggg cggacaaaag ctgcatcaac ggattaatat gcgaatga 648

<210> 1574
<211> 261
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (25),(100)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1574

tggtcgcgaa agccaaaggc cccgngacct tatccatcta tttacatatc catacagcgc 60
attgcaacat gcatacatgc atgcatgctc ctagtcgatn taagtactat atataccatc 120
gaagccgctg cgaagatggg cgcatctccc cttattttta ttcttgcgac agtgattatc 180
gccatgggag aagatgaaga aggtgaagaa ggccccatgt ctgtgtcgca aggagaaggc 240
gagacatttg ttacccagtg a 261

<210> 1575
<211> 1134
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (11)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1575
tccatctcca ntgcatatga aattcaagct ttttttaagg ccctcaattt agccgtcatg 60
ctttttttcca cgcagtgggc tcaagggaaa cggggttggg acgagttgca tggggcgagc 120
aggtgtgaaa acttcatgga tcacaagggc gaagagcttg gggacgagtt cgagcaggct 180
ctccggcaat ccatttggga acaggcaaag cggacactcc aagatgtctc tgatctggag 240
tgtttcaggg ttgttttcgc tgagttgatt tttggtcttg ttcaaaagcc gtattccagg 300
aatgaatatg acccagacgc aacaattggg ttggctacta gaaatctgtg caaaagcggt 360
accaattcaa tttcacctac gatcgcagat atttttgccc gagaagggcc gccgatattc 420
atggagcgag gggcccgcaa gatgcacgca cttaagtatc gattcgaagc ataccaagca 480
ggttttcggc aaggcgctcg cagttttgaa tctgaaccga atgctggagc cccccaagaa 540
atgagcgcag aagatggtca aacaattggt ctcttgtact ggctcgcagt catgtttgat 600
acggtctctt cgtctataaa tgagcgacca gtggtcgtcc ctgatgagga atgtcaacat 660
gatggagcac agagagcggc aaaggatcct ttagaattac cggtaacgaa tgtgcgatgg 720
aaacttgacc tctatgcaca agatgatact gagagaccgt ccctttgca ttggccttgt 780
acatacgacg ttgcaaccag ggcagttgcc aggtcagcag ctgtcaaagt gctgcttttc 840
cgccatatca catatcttca aaacggcttg aggaattgtg agaacggccc agccatcgag 900
gaaatcatta aggccacact atctgtatat cgatactggg acgtcactca tggtgctttc 960
ttccgcgact taatcatgaa ctatgaatca gtccctccgc gcattaggag ctggtttcca 1020
tgtatcagta ttccgtggca cttgggctca cttatgctcg caaacctgat tgattatgtg 1080
gatgagaacc ggcttggctg cgacagctac agggcgaaac gtctccatgt cggc 1134

<210> 1576
<211> 276
<212> DNA
<213> A.fumigatus

<400> 1576
tcataccaat ctaagaaggg aaaaatggaa aataaactgt gttctcaatt agccggccgg 60
gaatctccag cccctgaaag ccagtccgct gaacagcaga tccctttttg ctggggtaga 120
atacctcgca gctcgcagca acggacggag attcaaatcc agcaaacttc cgacaatatc 180
aagcctttcc agttggaaag taaccctatt catcctcttg agggccctga gatggccaaa 240
tatgcaggtg acaaagttag gcgtctgtct tattga 276

<210> 1577
<211> 501
<212> DNA
<213> A.fumigatus

<400> 1577
aagccgcagc accagaggta tgtatgtatt ggcactgtct acgggctcac tttgctaatc 60

gttcaggcgt ctaccgaagc ggaaccattt gaggagagat ggcgggcgac tcagctacag 120
tcaggctctt ccatggtttc ggcagccatc acctgcctgc cgcctcgtta tgtggcagat 180
ttcctggtcc agatcttctt caagtacgcc cagacaaata atttctacgt ggaagaggac 240
tggctgctgg aaaaaatgca cacatgttat acaaacccat ccagcctttc gtccgacgat 300
gctggctccg tttgctctat tctcatggtc ctggctgtcg ggacacaatt tgctcacatg 360
gagtccgcca ctcctgtcaa tcgattatcg gccgactcct ccattaacta tgaccacaac 420
ttctcggaag acgaggttgg gctcaccttt taccagtttg cgtcgaaatt gcttcccgat 480
atcatcgcca ctgcttcggt t 501

<210> 1578
<211> 327
<212> DNA
<213> A.fumigatus

<400> 1578
catagatata gagcggcgga ggtgcggcca atgtgtaaat atccacaagg ggtagtgctg 60
gccaaccttg aacctgcaac gcccgtgggc gtcgccatct tggcgtctgc cccccgccaa 120
ggcccccccgg gcaagccagc tcccgccccg gccgcttcgg tgccaccagt tggtaccatg 180
gtattcattc tactccttct gtccgccccc tctacttcct cggcgggcgc tgctcccccg 240
cccgccaacc tgccgaccag gcaccgccgc ggccgcggca agaaacctaa ggaccagaag 300
gccgacaaag gagagggcga caagtga 327

<210> 1579
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1579
tattggaatg ttaaatgcga atacttctgt cccttgagcg ctagcttcgg aatgcccctc 60
ccttgttgca acaaggcaca ggaggatatc gcgacccagt ctcagtattc taggacagca 120
attaatgtaa aaatcagaag gagaaaacgg gaatgtgggg tctgttctgc taaagcaggt 180
ttgggatcct ggacctgcgt gccctga 207

<210> 1580
<211> 465
<212> DNA
<213> A.fumigatus

<400> 1580
cgagctgcaa tcatgcaaag tggatctgta gtggaaagga cgtcatcccg gcgttttcct 60
gcgcaagaac tgtatgactc cttggttgct tcaacaaggt gcgccgaagc agaggattcc 120
ctgaactgcc tgagatacat tccctacgac gagataaaca atgcctttga aaaatctccg 180
tatggaattg gtcgcatggc cgaggccttc ggcggacctt ccatcgacgg aaactttctt 240
ccgaattatg ggagtctgag tctaaaggac tctcggatgg tcaaggtacc agtaattagc 300
ggcgtcgttt ctcacgaagg tagcaaccag atcccagggt cagtgcgaga ctgggctgat 360
ctgcgagatt atttgataag tattaagcat agcttggtcc tgaaactttg cctggtgact 420
gactgctgcg ttagatcaca tctcatttcc aacaactgcg gttga 465

<210> 1581
<211> 663
<212> DNA
<213> A.fumigatus

<400> 1581
agacacaccc tcacctctcg cttccccgat atcctctggg aaggatgcgc ctccggcggc 60
ggacgctttg accctggagt cctacagtac ttcccccaga tctggacatc agatgacacc 120

gacgccgtgg aacgcatctt catccagatg ggtacgtcac tcgtctaccc cgccagcgca 180
atgggcgcgc atatctccgc ggtgccgaac caccaaacag ggcgaacggt gccgcttacc 240
ttccgcgcgc acgttgcaat gatgggcgga tcgttcgggc ttgagctcga tccactgaag 300
atgtgtcctg aggagaaagc tgtggttccc gagctgatcg cgttggcgga gaaggtcaac 360
ccgatcgtgc tgaaaggcga gatgtggagg cttagtctgc ccgaggagtc gaattggcct 420
gctgtgttgt ttgtctcgga agatggagtc aaagctatcc tgttcctctt ccagctgagc 480
ccgactgtta atcataccat acccagggtg agattgcagg ggctggacag gcaggcgatg 540
tacagcgttg acgagcaggg gccgtattcg ggtgatatgc tgatgaacct tggattgcag 600
tattcattta gcactgatta cgctagcaaa gtggtgtttt tggaaagggt cgatgtgatg 660
tga 663

<210> 1582
<211> 294
<212> DNA
<213> A.fumigatus

<400> 1582
tgttacgggt tgacccaaac ccaatccacg accggtctaa taatgtcggc ttttagcaag 60
ctccctctg gggcatccat cgctctcaag ccttttcggg tctccatccc ggaagaggag 120
ctggatgagt tccaggccct gttgaagctc tccaagattg ccccaccaac atttgaaaac 180
tctcggccaa gcggccaata tggcattacc tcggactggc tgaccactct tcggaaacag 240
tggcagaagg atttcgactg gtatactatc ttagtcctgt gcgagaggct atag 294

<210> 1583
<211> 834
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (171),(814),(818),(821)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1583
gtctcgggtt tccaccccag taggattcac gagacgccga aggtaatctt ccccgccgta 60
ataccctgcc ccgaacggag gatggtaatc cagctgggca gacgcttacg aaaaggccca 120
gagggtcgtg agagacatga ccttgcccga aaaggtggat ctgacgaccg ngacggcatc 180
ttcatgggtc cctgtgtcgg ccagacgggg agtgcgctgc ggttcggcat ccccaacctc 240
tgccttcaag attctccttt aggggtgcgc aactcggatc acaacaccgc gtttcccgcg 300
ggcatcacgg tcggcgcgac ctttgacaaa gaccttatgt acgctcgcgg tgtggaactg 360
ggaaaggagt tccgcggaaa gggaatcaac gtacttctgg gcccgtcagt cggcccgata 420
gggcgcaagc cgagaggtgg ccgcaattgg gaaggcttcg gcgcggatcc cagtctgcag 480
gcgattggcg gtgcgcagac gatcaagggg atccagagcc agggggtcat cgccacgatc 540
aaacactata tcggcaacga gcaagagatg taccgaatga gtaatgtcgg gcaaagggca 600
tactcgtcca atatcgacga tcggacgctc cacgaagtct acctgtggcc atttgcagag 660
ggaattagag ccggggttgg cgccgttatg actgcgtaca atgaggtaag tgcctccact 720
ttgtgtccga gcgtcaagcc atctgatgag ttggcccgcc aggtgaatag ttcggcgtgc 780
agtcagtaca gcaagctgct ccgggacgtc ccgntgtntg naattcgcaa ctag 834

<210> 1584
<211> 681
<212> DNA
<213> A.fumigatus

<400> 1584
ggacgcgatc cttccttacc gggcgtgagg acgagcgagc ttcagcaatt tggactgaaa 60

atgtacgttt ggcacattgc ccttttgtta gcattgtggc ttatatcatt tcatagttat 120
aacgccaacg tgaaggagct tcaagatacg ccgggcagcg agtatttcgc cttccttagc 180
cgtaaagcgc atgaaggagc cctcaatcag gccaagatcg atgtggctga ggcacgaatg 240
aggggagaaa tcggtgaggc cgaaaagaaa ggacgagcaa aacaggagat ctcgaagatc 300
gatgccgaca ctgcagtttt ggagacaaag cggaaggccg aaaaggccaa ggctgactct 360
gaactcatga accgtcagac tgagctcgat aatagcgttc gacttgccaa aatttcggcc 420
caacgccaag cagaaatgag agacgcagag ctgcaaaagc aggttgagtc taagcgtgca 480
gaaacagagc tcgaacgcct acgagccgtg gaggttacga aaagcaaggt cgcacgcgag 540
tcttctcaag aaaaagcaga tgcttccttc tatacggaac aaaatgctgc agatgcccag 600
ctatacaaac gaaagatgga agctgacgca acctgtacgt ctctgaacct atgtttcctt 660
tccttttttc atttgcgctg a 681

<210> 1585
<211> 270
<212> DNA
<213> A.fumigatus

<400> 1585
cccaccaagg aggcccctgt cgacacatcg gccactccca ccaccttcgt taccgccacc 60
aagcccgcca ccactgctgc tcccgctgct ccttccccca gctctggctc taactccggc 120
tctgactctt gcaactccgg aagcgccagc ggctctgtca agatttacgg gcagtgcggt 180
ggccagaact actctggtcc tacaagctgc gaggccggtc tcatctgcaa ggagtggaac 240
ccttactacc accagtgcgt cagtgcttaa 270

<210> 1586
<211> 1083
<212> DNA
<213> A.fumigatus

<400> 1586
gccaccaaca tcacccggcc cactaacaac tcgaccaagc tcgtctcaac ccgtgccacg 60
aagtgtcgca ccattcaggt agagtccggc gactcgtgtg cctccctggc gaccgaatgc 120
ggcatcacgc cggcacagtt cacccaatac aatccctcct ccagtttatg ctcaagtttg 180
accccaggca agcatgtctg ctgtacggcc ggtacccttc cagacttcac gccacagccc 240
ggcgcggacg gctactgcta ctcgtatctc gtgaagacgg gcgactcgtg cgcatccctt 300
gcagcggcct acgacctcac gaatgaggag atcgagtcct tcaacaagga gacctggggc 360
tggaacggct gcgaaaagct gtttgccgac tacaacatct gcctcagcac tggctacccg 420
cccatgccgg cgcccattgc gaacgctgtc tgcggaccgc aggtcaatga cacggccaaa 480
gcaccccccgg ggacggacct gagcaccctg aaccagtgcc cgttgaatgc ctgctgcaat 540
atctggggcc aatgcggaac gacgggagac ttctgcacgc cttccaactc gtccacgggg 600
gctcccggca cggctgcccc gggccagaac ggctgcatct ccaactgcgg catggatatc 660
atcacgtcca gcgcacccgc cgaaacgtac agcattgctt acttcgaagc cttcagctgg 720
aaacgctcct gcctgcgcat gtccgtcact agcattgaca cttccgccta tacgcacatc 780
cactattcct tcatcacgct gaacgaggac ttgtccatca acatcgatga agttgctgac 840
cagctgcccc tcttcaaggg gatggtcggc atcaagaaga ttgtttctgt tgccggctgg 900
gcgttctcga cggagcctgc cacataccag atctttcgca atgcggtggc cacccaggcc 960
aaccgcaaga cgctggtctc caacatcatc cggttcctag acgactacag cctcgacggc 1020
gtcgactggg actgggaata tcctgccgac cgtcttcaac agacgcgagg atcccaaata 1080
agg 1083

<210> 1587
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1587

ttagtactct tccatctacc tgatacttgg caaatctatg agtggttcga tggtagttcg 60
gccgcccatg tccctcctgg cttttgctca cttgtgcccg gcgcctccac cagcttggaa 120
ggattcctct ctacggcata tccagccgca tacggcgctt cttgctgcat cggtggcgca 180
tatgcctga 189

<210> 1588
<211> 486
<212> DNA
<213> A.fumigatus

<400> 1588
gggctcggcc ccttgtttaa attcggagac gttgatttgg aatgcgacgg gcgaggaatt 60
accgggggggc ccgacagggg acggggacgg aagacggaga cggaaacagg cacgagaaag 120
tcctctcaga cgcgaacatc ctcatcctca tcctcatcct catcctcatc atcggggcta 180
tcagcagggg cagctgcagg aattggggtg ggtgctggcg ccggcgtcat cctcgtcggg 240
gcgttggtct gggttctgtt ccgccgccga cgacgacatc gcgctgcatc acaccaacct 300
caatcggtgt attcgcccgc tggtttagga ggtcaggcat atgcgccacc gatgcagcaa 360
gaagcgccgt atgcggctgg atatgccgta gagaggaatc cttccaagct ggtggaggcg 420
ccgggcacaa gtgagcaaaa gccaggaggg acatgggcgg ccgaactacc atcgaaccac 480
tcatag 486

<210> 1589
<211> 297
<212> DNA
<213> A.fumigatus

<400> 1589
agtggcggat tgtaccccag ccagaagtgc tggtggatta ttatcaaagt ctcgtcgagc 60
gatgcgacgg atacgaaatc cagcgtgagc gctgagtact ttcactgcac cgatgccgct 120
gtcaagcttc attccagcgc tgttatcctc ctttttatag gtggatttct agatctccaa 180
tcattgtatt gtatttctac atgccataca tctaaggcgg gaacggagtt gatcttctat 240
gcattactgg gcgatgtgcg acatttcttc tcatactggt gcagtctaat gccttag 297

<210> 1590
<211> 306
<212> DNA
<213> A.fumigatus

<400> 1590
gactcttctt tggccttgtt accaccttct tcttatgctt ctacgacctt gcggactacc 60
tggtcatcct cttgtacagc ttcacgcaat ttttcgggcg ttccattgtt actagcgttt 120
ggattatcat actccctgat catcttgatt caatctcttc ctacgtgtat agtcagattc 180
gttcttttag atggtagcat tatgtcatac gacgtttgtc atgcgtcagt ggtgaaaact 240
acttacatga cagattctct attgcctgag gcgtccaccc taattccact tttcaattta 300
cagtaa 306

<210> 1591
<211> 639
<212> DNA
<213> A.fumigatus

<400> 1591
cataattctt tccagcccgc ttctgttgac gcggacgcct cgcgtgcggg acgctcgggg 60
gacttggacc ttgaacacag ccaatccaaa cggctgcggc catccaagcc cgacgtgaaa 120
tatctgccag agaattatga tcaggctgat ccgcgggacc ttgtcattct aatctctagc 180
atgctgatgg agctgattcg ctttaacgac aagataccgc tgaataacgg acgcctgaca 240

cgtttccatt ctcgatcgcc acctcggatt tcggtccaag actatcttca acggcttaca 300
acccacgcca ccttgtcgcc tccgatcttg ctcagcatgg tgtattacat tgaccggctc 360
tgcgctctct acccggcatt tactgtctcg agtcttacta ttcaccgatt ccttattgcc 420
agtgcgaccg ttgcgagtaa aggtcttagt gacagtttct ggaccaacaa gacatatgct 480
cgtgtgggag gtatcagcat ggcggagttg gcccttctgg agttagagtt tctgttccgc 540
gtagagtggc ggattgtacc ccagccagaa gtgctggtgg attattatca aagtctcgtc 600
gagcgatgcg acggatacga aatccagcgt gagcgctga 639

<210> 1592
<211> 279
<212> DNA
<213> A.fumigatus

<400> 1592
ggcgggaacg gagttgatct tctatgcatt actgggcgat gtgcgacatt tcttctcata 60
ctggtgcagt ctaatgcctt aggactcttc tttggccttg ttaccacctt cttcttatgc 120
ttctacgacc ttgcggacta cctggtcatc ctcttgtaca gcttcacgca atttttcggg 180
cgttccattg ttactagcgt ttggattatc atactccctg atcatcttga ttcaatctct 240
tcctacgtgt atagtcagat tcgttctttt agatggtag 279

<210> 1593
<211> 189
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (120)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1593
actgataggc taacgtccgg acacctttt agtcttagtg gtattatatt tcgatatatg 60
tctatggcga acttcggtaa gcaggacaat tcaggaatct tacgtaccgt cctgaggacn 120
agagagacta ccagtgtgtt ctctaaatct ttaacaagtc tgttcctact aatgatacct 180
cgtctttaa 189

<210> 1594
<211> 384
<212> DNA
<213> A.fumigatus

<400> 1594
cttcccttac catcggcggt gcttcggccc tgtggtaaag accatgcaat gatcaactcc 60
caagcgcacc agttgaagga cctcgctgag gaacgtaccc atcatgccac cggtctcgtg 120
aagcagtacg ttggtgacta cagcgccaag gctcaggagt acattggcca ccgtcgcagt 180
acttcaccag aagctaccaa ggctgccggt cctgttgtca agaaggaacc tagtgccgaa 240
gccattgtca agcaggagcc catccccgaa cccgtcatca agacaacaga cttcccggag 300
gccccaaagc aggagccggt agcagaaccg attgagcaca atcgccagcc tctggagacc 360
agggagcctt tgctggctgc ttaa 384

<210> 1595
<211> 300
<212> DNA
<213> A.fumigatus

<400> 1595

tatccccaag aaaccccgaa atcccctctt aacggttcgg agggattttt cgagcccgat 60
aaagtctcaa tgttcggtcg accatttttct cttgacgatg cgcacacaca attctttaga 120
tacggaaaat ggggttacaa taccattaga tatgttttaa cctgggaagc catcgagcat 180
gagggcccgg gtaaatatga cgatgaatgg atctcattca ctatcgaggt tcttcggatt 240
gcaaagcagt atggatttta cgtcttcctt gatccgcatc aggatgttgt atgtttttga 300

<210> 1596
<211> 945
<212> DNA
<213> A.fumigatus

<400> 1596
tccgcatcag gatgttgtat gtttttgatg aaacctactc ccagaaaaga gcgctgtgta 60
gctgacaacc tgaagtggtc gagactctca gggggttctg gtgccccagc atggacactt 120
tacgctgcag gttttgatcc cagaggtttc aagaagactg aggcagcgct cgtccaaaac 180
actttcgatg atccggccga gttcccgaag atgatatgga gcaccaacta cacgaggctt 240
gtcagccaga cgatgttcac gttgttctat ggaggcaggg attttgctcc gaaggcgatc 300
atagatggca taaacattca ggactatctt cagggccatt ttattgccgc gtgcagatat 360
tttgctcaga aaattcacga ggccggggac atcgagaacg aagtagtcat tggttgggaa 420
agcatgaatg agcctaatag agggctgatt ggggtgcaag atatttctgt gattccacct 480
gagcagcaac tgcagttagg gacgtcgcct actgcttttc agggcatgtt gacgggctcc 540
gggagagcat gcgaagagtc tacatgggct ttcggcggat ttggtcctta ccagacaggc 600
agggagcttg tggaccctga gggcgagacc gcgtggcttc cggctgatta cgatgacacc 660
aggtatggct gggtcaggga tcctgggtgg aagcttggag aatgtctttg ggctcaacat 720
ggcgtctggg atccatcctc agataaactt ctgcgaaagg attatttcgc caaaaatcct 780
caaaccggtg aacctttgaa ctatgataaa ttcaccaatc cgtatttcat ggagcattac 840
agagcctata gagatgctct caggagtgtc tggccggaag ccatcatttt ctgcccaccc 900
cctgtgtctt caccacgggg ctggaaggat ccgcggtggc gaaaa 945

<210> 1597
<211> 405
<212> DNA
<213> A.fumigatus

<400> 1597
gagagaatca aatcctccct cagctttctg tgttcctgtg ttcctgtgtt cctgcattcc 60
tgcattcctg cattccttcc tgcgatccag cagtccaaag cagcagtggc cctgctgctt 120
tctcttcccc cttctcgatc tcacccttgt cgttcatttc cctccccccc caatttgcac 180
acaatggcac ctctcaagct caatagcagg aacctgtcgc aaatcgcagc ggcaggtggc 240
gcgctggtga agatccctac ctaccagcgc ggtcgcgccg tcaaggaggg aatcgtccac 300
attggtgtcg gcggtttcca ccgggcgcac ctggctgttt acatcgacca gttgagcacg 360
aagcatgagg gtcttcgacc ggcggatgct aaacaggccc ccaga 405

<210> 1598
<211> 573
<212> DNA
<213> A.fumigatus

<400> 1598
ctgtttaata gtactggcgc aaaatgcctt cctgcctcgc aggtatccaa agccagaggc 60
ctggtgctac acgactggca cgcggaggtt ctagccctgc gctcattcaa ctactggctt 120
ctatctgaat gccacagcct gctggcccag gaacagcatg caagatcaag ctcaaccaat 180
acaccaggtg cagcatcttc acctttcatc cgccgcagga agtccgccga aaggcctagc 240
acagcgcaat cagaaccagc cccggcctgg ccccccttcg agctccaacc tgacatcaaa 300
atttacatgt attgcacctg cgccccctgt ggtgacgcaa gtatggagct ctgcatggct 360
gcccaagacg acccaagacc ctgggatgtt gcaccgggac ccgagcgcac cgagtctccc 420

ggccccggcc cagaactcct agatggtcga ggctacttct cccgcctcgg catcgtgcgg 480
cgcaagccag cgcgcgcgga acccgaacca accctgagca attcgtgctc ggaacagctc 540
gctctgcggc atgtatcgtc ccccctatcg taa 573

<210> 1599
<211> 267
<212> DNA
<213> A.fumigatus

<400> 1599
gccagtcttg gcgtcagcga aggtactcca tacaatcttg ttccgtccac aaaggaggtg 60
gcgaatgctg tacgcactcg tgtgtactgt actactatct actggcaaaa gattaatatc 120
ctggaaaata atgttcaggt tctccaaaaa cgcatctttc actgtactac atatagattg 180
tctaacgtcg agcgttcaat ccataattat tctttcgtgt ggcacaagtc ctgttcccac 240
cccataaatg cctatgattg ttcataa 267

<210> 1600
<211> 795
<212> DNA
<213> A.fumigatus

<400> 1600
ttccttgaac agtctactgt tttcgacgac ctggctcatc agatcgttca ccagacgacc 60
ctctctttgc accaggcgag cgctcaaatc tcaagcaaat ccactgcaga cggaaagctc 120
ttcttaatga gccatctctt gatcctgaag caacaaattg tcgcattcga catcgagtac 180
gtagcgccag aagtgtcgtt cgatttctcc ggcatcacca ataccttctg ggagctccgt 240
gaaagaggcg gcctcttcaa cccccgcaac ctcatgcgcc tcgtcggcca tggtctactc 300
ccacgcgtcg tcgagaatat gctcgatgca aaggtagagc ttgacgggcg gctccgaacc 360
gtgatcaacg atttcattaa cgagttcgca acaaagatga ccgcctcttt acccgcaaag 420
ttcatcgata ggcggaatct gcagcaagga gaactaattt atccgacatg ccagaatatc 480
gagaaggaag tccccaactt acgaaaaata ctcggtgact atcttgacga tccccggatg 540
aaagagactc ttgttggtgc agtacaagac cgcgtcatcc agatttacga ggacttttc 600
gacagatata catcgtctga acggagcaag ggacattctg tctccaagaa ggggaagggc 660
cgcgaggacg ccgtgtggga tgtggggagt ttcgcagagt ggtgtgaaaa tatcttccga 720
gtcggcatcc ctgagcaaga tgacgaagga ttacctagtg ggagtttgag ccggagcggg 780
agtccaggga gctag 795

<210> 1601
<211> 468
<212> DNA
<213> A.fumigatus

<400> 1601
aacatccctg caacgccaaa ggaatcgaaa ccggtctgga ccctgcaggc gcatgacacc 60
tctgtgtcat cctttgacat caaccctgcc attcctggct tcctcgtaac cggatcaacg 120
gataagcaag tcaagctatg gaacgtcgag aatggccggc ctagcatggt cgtctcgcgt 180
aagatggacg ttggtaaggt gttttcgacc accttcgctc ctgacaacga ggttggcttc 240
cggttggcgg tagctggcag caagggaacc gtccagatct gggacacctc gaccaacgga 300
gccgttcgta gagcttttgt gtctcgcatg cccgccctgg aaggcgaggt caaggagcgc 360
acaatcggag tgcaagccga cgatgatgaa tcggatgatg atgccgcagg ggaggagatc 420
ggtgctcagc aaggtggaga tggctgggaa tccatggacg aggactag 468

<210> 1602
<211> 246
<212> DNA
<213> A.fumigatus

<400> 1602
aataaaacat ttcgctttgc ttataaagat agctgctggt cacggtgctt aaatctccgc 60
ttcattgctg aatacgctgt tattgcctac gatagtgagg ggacggtctc acttgcagcc 120
acttcaccag cctcaatttt aaagctacct gtggtcaatc ttcttcatgt caagattgtg 180
gagctcagtg tggattcttc catgtcgcag agtaatacta ctgggcatgc aacgcaactc 240
tctcca 246

<210> 1603
<211> 603
<212> DNA
<213> A.fumigatus

<400> 1603
atactgtgtc gcaaagaaat caattacgtc aaaatgtcgc agaaggagcg cgaacagctc 60
actgccgaat tcaacatcct gagctccctc cgacacccga acatcgtcgc ctattaccat 120
cgtgaacatc tcaaagcgag ccaggatctg tacctgtaca tggaatactg tggcggtggt 180
gatcttagta tggttatcaa gaacttgaag aagacaaaca aatatgcaga agaggaattc 240
gtttggcgca ttttgtcaca gctggtaaca gcgctatacc ggtgtcatta tggagcggat 300
ccggttgaag tgggatcgaa tatactgggc ccggctccca agccctctgg tctcaaaggc 360
aagcaggcgc agatgactat cctgcatcgt gacttgaagc ccgaaaacat ctttcttgga 420
agtgacaata cggtcaaact tggtgatttt ggcttgtcca agctaatgca ctcgcacgac 480
ttcgcatcca cctatgtcgg cactcccttt tacatgtcac ccgaaatctg cgctgcagag 540
aagtacaccc tccggtctga tatctgggct gtcggttgca tcatgtatgt cttcaccacg 600
ggg 603

<210> 1604
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1604
aacctaatat caaacaaaac tcatacaggg tgcggttcat tcggcattat tcgcaaggtc 60
aaacggaaat ctgatggctt cgtaaggact cgattcaagt ttgtgacgct ggtgttgggg 120
ctaatcaaca agctagatac tgtgtcgcaa agaaatcaat tacgtcaaaa tgtcgcagaa 180
ggagcgcgaa cagctcactg ccgaattcaa catcctgagc tccctccgac acccgaacat 240
cgtcgcctat taccatcgtg a 261

<210> 1605
<211> 324
<212> DNA
<213> A.fumigatus

<400> 1605
actaccagtt tcctcttttt gatctcaatt ctcttccaat tgctctacgc ccgccaccac 60
aagcgcgaga agcgtttcgg tccttccccg gcaaacggtt acacctacgg caccggcacc 120
caacgccgtg gcttctggcg ccgcaacaag cgtaccccgg aaaccgccag tgcagacgac 180
atgcttccgg gtcaccctac ccctcacgac gtggaaatgg gcgatagcgc cgagaaaccc 240
ggcgccttcg gtggccgctt ctcgcgcaac aacaatgctg tggcgaatgg ctatggtggc 300
tcggcctata ccggcaacta ttga 324

<210> 1606
<211> 357
<212> DNA
<213> A.fumigatus

<400> 1606
cccatttccc cccacaaatg tgaataccag cccccagtat tctcaattcc ccgggtggag 60
tctgggaaca agcctcaaat tgagtctcag gccaagcccc agtttgggta taagcgtgag 120
ccagagtctc cacccaaacc caagcccaag aataaccccg tacctgagca tgcccctgag 180
ccgaagcctt ccgaaactgc gcatgcacag ggattctcaa agacttgcga acacggcgag 240
atactgtgcg gggcagatgg tcagacatgg gcgaagtgcg actggggcaa acctgttcag 300
atgggacctg ttgccgccgg tacgcgctgc agccacggtg tcatcgaacg tacgtag 357

<210> 1607
<211> 237
<212> DNA
<213> A.fumigatus

<400> 1607
ataaaggctc agacagtgaa agcctcagct cttaactctc gtcagacctc cctgtctcct 60
atcctcccca tttatctttt agccataagt tataattcta gcttgtctgc ctgtccatca 120
atcaccgaga aaggacgtcc gccaggtatt atagagcagt atcctcgccc cctcgacgat 180
atctttcatg ttcctgtacc tggtctcgat cagaccagct ctataggggc catttga 237

<210> 1608
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1608
tcagtgctct tattattggg cccaaacctt gtttataatc atactcccga aattcaattc 60
gacaataatt cctctcattt tgaccgtgcc atttggcgta aatgccgcac agcaaccata 120
agatctcgtc tgcctctcct taatgcttgg actttggatt tcggaccatg caatacagct 180
acacgaaaag gtttatcatg a 201

<210> 1609
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1609
tatctaagtg agtatgcaat atatgattgc agaggtatat atgtgctcaa gttaagtgat 60
gtcatggcta cacaggcgta cagtgacttc atagtcggtc aggcactcca cgggaaggct 120
acttttctgc gaggtgagtg ggaaattgcg tatattgacc gatacaaagc tcggcaaagt 180
ctatctgatt aa 192

<210> 1610
<211> 195
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (102)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1610
tgtggcctct ccgggcgggc gcgatacatc tttattacga tgcatcctcc acgcctcgat 60
ttcagtggcg cgcccgataa tgatccgact ctgctcatgc angatcagtc tctcttcgga 120
agtgtgaggc cgggagattg gatacaccaa gcttgtctac gtttttatgt tgatttgatg 180
atttcagttg cttga 195

<210> 1611
<211> 198
<212> DNA
<213> A.fumigatus

<400> 1611
cacggaccag aagaagccac cgacccggtc acgcgcaccc tacacaaccc atcccagtcc 60
tacgccgacc acaccaaaga atcaggcagt agtgtcgcgg agaaaatcgc cgaggcgatg 120
cagccgggtt cgtaccttct atcccggggg gaagctttgc cggatggcgc gttgatattg 180
gtgagctgca ggcgataa 198

<210> 1612
<211> 612
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (60),(65),(122),(213)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1612
gtgccactgt ttgccccggt ctggactctc accacgttgt ataccttcct cctccaattn 60
tactngccag gagacccccc ccccccaaa atagacaata tattggacat aatcaaaatg 120
cntactcagc accgcatcct tgctcttgtg tacaacgagt tcgaagccct cgatcttttc 180
ggcccattgg gcgccatcgt cccccgcagc gantactaca cgctggcgtt agtcagcctg 240
cacaacctag actcgccaca tggcgttgaa acctccatga agaacggcat cggcgtgatc 300
ccgaccctct cactggccga ggccctccgg gaggatcagc agttcgacac cctgttcatc 360
cctggtgggt ttggcatgat gccactggta tgggacccaa tcctgctgca gcgcatcggt 420
cagctggtcg accgtgcgcc gaacgtcttt tccgtgtgta cgggttcgat tttgctggct 480
gcgactggtc ggctggacgg ccggaaggcg acaacgaaca agcggctgta tgatgagctg 540
actccgaaac gtataatccc gccgtcttgt ttccagattt ccagagcaca tgctaacatt 600
ttttttttt aa 612

<210> 1613
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1613
cctcatagcg ccaccgcgga tccttccagc cccgtggtga agacaaagga atacgagctt 60
gacctgtctt ttgctcaggg ctacacttca aaatgcactt tgtctactat actagcggca 120
tggtccgtta cagatacgac agaattgaat ccttcaggct attcccggct cctttacact 180
tag 183

<210> 1614
<211> 228
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (199)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1614
tcccgccgtc ttgtttccag atttccagag cacatgctaa catttttttt ttttaatcgg 60
ctagacccag gggtccaatg gcaaaagcgc gcacgctggg tgcaggatgg gaaatttttg 120
acgtcctcgg gtgtgacggc cggtatcgac gcgggctttg ctttccttgc tagcacgtat 180
gtcgcaccgg aggaccgcnc aggggccttt cccaaaaccc ccccgggg 228

<210> 1615
<211> 267
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (16),(107),(164),(169)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1615
cgccagcgtg tagtantcgc tgcgggggac gatggcgccc aatgggccga aaagatcgag 60
ggcttcgaac tcgttgtaca caagagcaag gatgcggtgc tgagtangca ttttgattat 120
gtccaatata ttgtctattt tgggggggggg ggggtctcct ggcnagtana attggaggag 180
gaaggtatac aacgtggtga gagtccagac cggggcaaac agtggcacct atctcacgtc 240
agatgccggt gtcttggggc tccttag 267

<210> 1616
<211> 462
<212> DNA
<213> A.fumigatus

<400> 1616
acagggagtc gtctgctgat gctgctatcg gggatcgctc caaaaaagga aaaaaagcat 60
ggccaagcaa ttcagccgac agctgactgt gccttggcgt cagcgtcatc acagcctggt 120
ctgcttcaca acattgaatt gcaagagacg ccgtttatgc aggtcttgtt cattcttctc 180
cttttgttgt cgatttatcg aagttgtttg tctagccgag atggaaaacc aattgcttca 240
tccctaaaca gacgccggca atgctgggaa tgccgtcgcc gccgactagt ctgcgacttc 300
tcactccccg ggtgccgcaa atgctatact gctggggtcg agtgtcctgg ctacgacgag 360
aagaagccgc tcaagtgggt tacaacgtgt gaggttgaca tcccggcctc ggaagaagac 420
tgttcagcag agtactgcca agcagtctgt gtccggagat ag 462

<210> 1617
<211> 621
<212> DNA
<213> A.fumigatus

<400> 1617
cggatcggga tcttccagcc cttggcgaag accacatcct ctggcctccc cagttccccc 60
gtcaacgtcc tccccttcaa cctctcaatc acctcctcag gcaacccatc gaacatctcc 120
gtccgcaccg cccccggcgc aacaacattc accctcaccg gcgcaagatc gaccgctaac 180
ccccgcccca gcccattgat cgcattcccc agcatagctc ccacactgta ccccggtggc 240
ggccgcatcg ccaccgcccc gctcgtcaac gtcagcgaag accgcgccga ttgcaccatg 300
tacgtcggga cgtgcttcgc aagcatcagg ccgcccagga gccgcacggt ggtgagggcg 360
cggatgtacg cggggtcgag ggctgggtca gtcggcgggc ggatttggag ggcgtcgccg 420
gcggtgaaga cgatatggtc taggaggacc ttttcgcttt tgccgggtgt gtctgcgttg 480
ttgggcgaga ggttagtcgg gaagagatcg ggttgtgttg ctttgtctag caaggtcaag 540
atgttcgact ccaaggtgga ctcatccccc aggtcgacgg tggtgccggc tattctggtc 600
gtgaattgct catcggggta g 621

<210> 1618
<211> 900
<212> DNA
<213> A.fumigatus

<400> 1618
tatcaaacag atctctccga ttcactctca gtccaagata gcccgatttc ctcctacatc 60
aacagtccta gtacctacaa gggaatctcc accatgacaa cccaaactcc acaccttgtc 120
tctatcaaca agctcaccgg cacccgcgtt ctcgtcatcg gcggtacctc cggcctcggg 180
ttcgcggtcg cccgcgccgc cctcgaacac ggcgccagcg tcctcgtcgc cagctcccgg 240
cccgaaaaag tccagtccgc cgtctcccgc ctccgcactc tctaccccga tgagcaattc 300
acgaccagaa tagccggcac caccgtcgac ctgggggatg agtccacctt ggagtcgaac 360
atcttgacct tgctagacaa agcaacacaa cccgatctct tcccgactaa cctctcgccc 420
aacaacgcag acacacccgg caaaagcgaa aaggtcctcc tagaccatat cgtcttcacc 480
gccggcgacg ccctccaaat ccgcccgccg actgacccag ccctcgaccc cgcgtacatc 540
cgcgccctca ccaccgtgcg gctcctgggc ggcctgatgc ttgcgaagca cgtcccgacg 600
tacatggtgc aatcggcgcg gtcttcgctg acgttgacga gcggggcggt ggcgatgcgg 660
ccgccaccgg ggtacagtgt gggagctatg ctggggaatg cgatcaatgg gctggggcgg 720
gggttagcgg tcgatcttgc gccggtgagg gtgaatgttg ttgcgccggg ggcggtgcgg 780
acggagatgt tcgatgggtt gcctgaggag gtgattgaga ggttgaaggg gaggacgttg 840
acgggggaac tggggaggcc agaggatgtg gtcttcgcca agggctggaa gatcccgatc 900

<210> 1619
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1619
ggtgtggtca ttgtgaacac ggctcgtggc gctttaattg acgaaaaagc tctggtggcc 60
gctttggatt ccgggaaggt aagctccatc ctagcctact tccttgagtt atgggtagta 120
acggaatgcg acaggtcatg tcggctggtt tggatgtgta tgagaacgag ccggagatcg 180
aacctggact tgtaa 195

<210> 1620
<211> 228
<212> DNA
<213> A.fumigatus

<400> 1620
atcataccaa cgccatcgtt tccgctctgt tatatgcgtc gtggaggaat taggaattgg 60
acatggtttt cgctgatgtt gggtctttgt ttgcatcagg tccgttacgc tgctcaggac 120
attccggccg caaagagcgc ccgcgcccgg ggctcttacc tgcgtgtcag cttcaagaac 180
acccgtgaga ccgctcaggc catcaacggc atgaagctgc agcgcgcc 228

<210> 1621
<211> 258
<212> DNA
<213> A.fumigatus

<400> 1621
gttatgggta gtaacggaat gcgacaggtc atgtcggctg gtttggatgt gtatgagaac 60
gagccggaga tcgaacctgg acttgtaaat aacccccgcg tgatgctact accgcacatt 120
ggaaccgcga cctatgagac ccagaaagaa atggagctgt tggtcttgaa caacttgcgc 180
tcggcggtgg agaagggcga gatgatcaca ttggtgccgg agcagaagga tatcttcaag 240
gggcagaacg gaaagtaa 258

<210> 1622
<211> 963
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (940)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1622
tcgaatcgca gaggtcacgg tacctactcg aatccactct cgacttctat cattgccact 60
gttgctggca ctgtacagaa aacgaacaaa cttctctccg ttcagccgct gcgggctcga 120
tatatcccag aaatcggtga tctggttgtt ggacgcattg tggaggttca gtcaagacga 180
tggaaggtcg atattgccgc tcctcttcta gcacaactac ccctctccgc catcaacctg 240
cctggaggca tcctccgtcg acggacaagc gcggatgagc tgcagattcg aaccttcttc 300
agcgaagggg atctggtggt tgcagaagtt cagagcgtgc attctgacgg ctcagcctca 360
ttgcatacgc gatcgctgaa atacggcaag cttagaaatg gcgtattcct cgctgttgcg 420
ggaaccggtg gtagcggagc ttcgagttcg acagtgaagg gaggccctgg agcgggaact 480
gcctctgcag ggttgctagg cacctcaggc acgggtggtg tggttcgcgc ccggagacaa 540
cagtggacag tcaacacggc gaacggaggc ggcgaggtga acattatcct cggggtgaat 600
ggttacatct ggatcgcgaa gcacgccgac ggcgcggccg ccgcgtcctc tacgacggag 660
aatgtatcca tcacccgtat ggaggagatg gtatcaagct ctatctattc cagccagaac 720
gacgagattc caccgcagac acggcgcgag attgcacgcc tggcgcaatg tattcgcgtg 780
ctggttcaag gcggagttcg tgtggatgag gaaactgtca tgagagcata cgatgccagc 840
ttacaggtcg atctcgaagt cggtgatgat gaggatgagg acgagcggag aagagaagga 900
agggagtatc tcgagggcgc caaagcttca gggatcctan ctttggcgac ggtagcacga 960
tga 963

<210> 1623
<211> 738
<212> DNA
<213> A.fumigatus

<400> 1623
tcctgtgcct ctgctctggc caagaacccc gatcgcttcg acgtgaccct cttcgatatt 60
gccccgtgca ccggcggcca agcaacctcc atctctcttg acgagtcccg ctacggcgcc 120
gactggctca acgatggcgt gcaaggtggc tctccgatct tccggcacac cttccacttc 180
ttccgtcggt acggctacga gcctcgcccg gtgaaactgc aagtcgcgtt cggcaagggc 240
gtggagaatt tcttcacgaa tgtatttccc tccccgttgg ttgaccagct gtcgggcgag 300
atcaagaagt tgggacgcgt gctcaaatgg atcaagcgtt tgtttccgat tctggggctc 360
ttgcccatca aggtgataat gaagctgttc cggtttagcg aggagtttac caataagatg 420
gtcattccga tcatggcgct cttcttggga acggggaacc agacaccgaa cgtttcggcc 480
gcgctgctgg agagactgtt ttgtgatccc aatatgcggc tttgggagta cgacccagac 540
acactcctcc caaaccaacc caccatgtac acattcccca agctaggcga cttctaccgc 600
gactgggctg gagacctcgc gtccagaggc gtcgacatcc gtctcaacac ggccgtcgag 660
attctgcaac gcaacaacca cagcattacg ctacgtcccg tcttcagcca cggggctcga 720
agatccgcgc ttgcgtta 738

<210> 1624
<211> 474
<212> DNA
<213> A.fumigatus

<400> 1624
gatttatcga gagtcaggat ttcaacacca acatcgccaa ggcatatatc gatcatcatt 60

ttgtcctcca ggtacaattg gctccttaaa gccctttctt ccccccctaag aactacctac 120
agcgatacta atccttatca gttattggag ttattcgatt cggaagaccc tcgcgaacgg 180
gactttctca agaccacatt gcatcggatc tacggaaagt ttctgaatct gcggtcttat 240
atccgtcgat ccatcaacaa cgttttcttc caattcacgt acgagactga gcgcttcaac 300
ggaatagccg agttgttaga aattctgggg tctatcatca acggatttgc cttgcctctg 360
aaggaggagc ataagctctt tctgacccga gtgctgctcc ccttgcacaa agtcaagagt 420
ctcagcatgt gtcttcacca cggggctgga aggatccgaa gcgtgcgtca taat 474

<210> 1625
<211> 402
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (115)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1625
cgccaagagc ttttcatgca gaagattgac cagtgcaata tcattttcga cttcaatgat 60
cctacagccg acatgaagtc caaggagatc aagagactgg cgctccacga gctcntagac 120
tacgtggcga acaaccgttc agtaatcacc gaacccatgt accctcgagt ggtcgagatg 180
ttcgccaaaa acctctttcg acccatccct cccccggtta ccccccaagg cgaggccttt 240
gatccggaag aggatgagcc ggtcctggaa gtggcctggc cacatatcca ggttgtatat 300
gagttcttct tgagatttat cgagagtcag gatttcaaca ccaacatcgc caaggcatat 360
atcgatcatc attttgtcct ccaggtacaa ttggctcctt aa 402

<210> 1626
<211> 744
<212> DNA
<213> A.fumigatus

<400> 1626
tgtggacaga ttctcccatt cctaacccca tttctaatgc ggtgtaatct gtcagcgcct 60
ccctccaagg acaccaccaa gaagaccgat gcgaacggcc aagctggtgc caatacgaat 120
atcctcccc ccaaaactga taaaccccga ccacatgtct gtaccacttg cgggcgatcg 180
tttgctcggc tagaacatct gaagcgccat gagcggtcgc acaccaagga gaaaccattc 240
gagtgccctg actgctcccg gtgctttgct cgccgggatc ttcttttgag acatcagcag 300
aaactgcaca tgaccacgac accatcgtcg cgaccccgaa atgctcggag agaaagtacc 360
ggagctgctg gtactggagc aaatcgtgtc cgtaaaaact ccattgccag caactcgaat 420
agcattcgtc cccgggccaa taccatcagt cacattgatg gagcttctct aggcatagcg 480
accaacgacc ccaatcactc ggtacccgcc acaggccatc cgggacatgc tcatcatacc 540
agcatgagtt caatgtccat gggtgcgaat atcgattttc atcgcgggta cagctcaagc 600
catccctatt ccagcagcct tcccaagctg gagactcatg gtctgcccat ggatctttcc 660
ggtggacttc gtaccgctcc tgtgtacggc aactttgatc tgaccatggg ggacttttc 720
atgaacccat gggactacga ttaa 744

<210> 1627
<211> 285
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (88),(106),(108),(116),(125),(126),(136)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1627
ctcgccgtca tccccccctcc cgtcatgcct cccctcaggt acaacccccc cactgattca 60
atgttgggaa gaaaaactcc agctttcnac ttggatgaaa cggctncnat cccgtncatg 120
cccgnnccta ggtcanaagc accgaactcc gggattgatg aagtcgttcc cccctccgcc 180
atgagtactt ggcaggccaa attgggaatc acccaaggcc ccgaatggat tggaaccaac 240
cgggttttca aactctgctt tccggctggg attaaccctt ttccc 285

<210> 1628
<211> 960
<212> DNA
<213> A.fumigatus

<400> 1628
cgcgggtcct tcggcccctg tggtgaagta tggatcccac gcggggagac aaagtccctt 60
caactgtatc accatatcat ttggctttca cgggagggtc tattgatctt ggaggagttc 120
gtccttccca tggtcgagcc cttcgtggag ttaaaaatcc tcgcatacaa gctcagagcc 180
tcgttttatc atatcttcgt tctcttccat aacgagccac cagtccatgc gcccggtatt 240
atgagcctcc gaagccagtc ttcagcgacg aataatgctg ctgaagcaga gtcgactccc 300
aaggaccagg gatcaaggtt ctcatttact tctaaaccag aagtgatccc gcgtccccag 360
gatgcggcct cgaatccaga cgacgctgca agacgaaggg ctacgcaggc tcctcctggc 420
ctagccccgg tacagcctcc caaacccgct tcatcattcc ttcttccctc tatcgattat 480
accccaactg caacggcatg cttcaaccat gccgctctcc ttgctgaacg gtttctgccc 540
ggatcgcatc ccctacgcct gtcgataaag ctcgaatatg ctgcttacct ttacgattgc 600
cttcacgacc caaatgcttg tcgacgattg gcgaagcaag ctatagcaga tgtttacaat 660
gctcaggaag gcatggacga cgagagcttt gaggacgccg ccgagatagt tcggatcctg 720
ggaaagatgg taaagcgctc gggcaagaat agcagcacgg gacctagcag cacgtcagct 780
ggaacaccaa aaggggatat ctcgatgagc gagggcagcc tgaccccaaa agtacgaaaa 840
tccgtgtcac aggcgacaac aatgacttca gtctcgcctg ctccggtgaa taagtccccg 900
gtcaaaagtg atgcgccttc tactgcactt ccaaatccaa gtatgacgaa tcctatttga 960

<210> 1629
<211> 327
<212> DNA
<213> A.fumigatus

<400> 1629
agcggtggcg cggtctttcc ggccctgtgg cgattattca tcatctctgc gaagcccgga 60
tctgccaccg atgaccgggc tgcagacatg acttctgcga ccacagggcc ttttacgtat 120
gatgcgtatg gggtgttacg ccatattgga tcgaccatgg ggagcggaca ttatatatcg 180
ctggtgcggg atgcgcagcg ccaatgctgg cgcaagtttg acgatgagcg ggcgaccgac 240
tttaacccac gcgatctgcg cttcaaggac cggctgcaga acgaacaggc atatattgta 300
ttctacgagc gagtcccggc gaaatga 327

<210> 1630
<211> 195
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (190)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1630
gctccccacg ttgggcgtta tatctcttac tcaattccaa ctctctctac ttggggtgca 60

gccgcgtcgt gcaagaacct atgcagggcg ctctccgact cctttaattt tcccgacatt 120
ctcatgaccg agctctccct aattgcgagc caggcactag aaatcgatca ttgtcacctt 180
cgaggagctn tttag 195

<210> 1631
<211> 645
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (15)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1631
aagttattcg tcgantgttc aaccgtccac ccggacacct cccgccgaac ccacgccgcc 60
ctaacgccgc gcggcgcctc cttcatcgcc tgtcccgttt tcggcgcgcc tgtcttcgca 120
gacgcaggtc agctggtcgt cgtgcccgcc ggcgatgcag ccgccatcga ccgcatcagg 180
ccgttcttcg agggcgtcac cgcccgcgcc acaatcgaca tgagcggcca cgacgtcggc 240
cgcgccagca ccctcaaaat cctgggtaac acgctcatcc tcaacacggt cgagtcgatt 300
gcagaggggc tcgtggcggc ggagaagttc ggactcggag ctgatgttta ccagcagtgg 360
gtgcatgggt tggttggagg catgttcgcg aaatacgcgg accgaatgtg tacgggcgac 420
tactacaagc gtgaggagcc gctcttcgcg gtggacttgg cgcgcaagga cctgcggcat 480
gcggccagct tggctgaggc ggctgggatg cggctgcgta gtgttgagat cacggatgcg 540
tatctgcagg aggtcaaggc tgagaagggg gaaaaggggg atatcgcggg tgtctatgga 600
gctattcgga aggagtcggg gttgccgttt gagaatcagc agtga 645

<210> 1632
<211> 252
<212> DNA
<213> A.fumigatus

<400> 1632
tttcccgggg gggagcgaat taccttccat cccgctgctg aagacactgc tacgggtagt 60
atcactccaa ctgcgacgaa taatgccagc ggctcgactg gatccggcgg taatactggt 120
aactcgcagc ccgaaaatac caataatggc agcaacgctc aaccgaacaa caatgcagct 180
gctggctctg cggtctcgaa agcggcgtcc gtggcggccg ttgtgggatt gatcggtctt 240
gcttggctat ga 252

<210> 1633
<211> 618
<212> DNA
<213> A.fumigatus

<400> 1633
tattattttg gacagctttc tctctcatcc atacctaatt taaataccat tgtctgtggc 60
ctactcttca gctcgaaccc ccttgtacaa cgcatcgtgc aaccatcgct cccgatgtcc 120
actctcaata tgttaccgga gcaatccgcc tttggccggt ctgcaatgcc tggttccgat 180
gctgtcaatc ctggcccatc tccgtttgct cctcctccta attccttctc tggtgacttt 240
cttggactct cgctccctga cgaagagcat ctctggggta tgagtcctct ctcttcctcc 300
atgccctcgt ggaatggaaa gaacgaacag atgttctcca atcctaacct tgaacgcgac 360
ctcaagcact cccatgtccg caatggccag cctactccac ctccatacgg tgacaacaag 420
actcacacgg tcggtgatct atactcgctg tctcagtgcc aattctccaa tggagcacaa 480
aatttccaga cccataacga tcgtagaagc ttctgtgagc agtcggccat aaatagcaac 540
ggcggcagct ccaaacgtcg caaggttcgc gacgccaaga tgacccaggc cgaatacaac 600
gaacagcagc aggagaag 618

<210> 1634
<211> 372
<212> DNA
<213> A.fumigatus

<400> 1634
agacctccag cacctggtct actcgaggtt cacttcacca gatcagaaca caagaatcac 60
gataacaacg cgctcacatc aacaacaaca acaacaaaat ttttttcag caataccaac 120
tcgttaacat cttcattata cacattcaaa atgtctctct tccacacctt ccacactcct 180
ggcgactttg cccctctctt ccgccttctg gacgactacg atttccaccg gtcgaccaga 240
aatcaggctt cctctgtgcg ctcctttgcg ccccgctttg atgttcgcga aaccaacgat 300
gcctaccttc tggatggcga gcttcctagg cgtcttcagc ccacgggcgt ggaaggacag 360
cgattgcgga cc 372

<210> 1635
<211> 582
<212> DNA
<213> A.fumigatus

<400> 1635
agaggtactg atatatcggc aggtgaccga gtggctttgg aatgtggtgt cccatgctct 60
aaaccaacat gctctttctg ccgcaccggt aaatatcatg cttgtccaga tgttgtcttt 120
ttctctacgc ctccccatca cggtacgctg cggcggtatc atgcccatcc agaggcatgg 180
ttgcacaaga ttccggacaa catttctttc gaggaaggtt cactgctcga gcctctctct 240
gtcgctttgg ctggtatcaa tcggtccggc ctccgtctgg cggatcctct agtcatctgc 300
ggtgctgggc ccatcggtct catcacgttg ttagctgcca gcgcggcagg ggctgagccc 360
attgtcatca cagatattga cgagaaccgc ctttctaagg ccaaagagct cgtgcctcga 420
gtacatccag ttcatgtgca gaagcaggag agccctcaac accttggagc acgtattgtc 480
agagagctcg gccaagaggc aaaattggtc ctcgagtgta caggcgttga aagtagtgta 540
cacgctggca tatatgtagg tcgactcggt cctgagactt ga 582

<210> 1636
<211> 300
<212> DNA
<213> A.fumigatus

<400> 1636
gcccatagca aagcctgtct cattaaaatt atagatatcc tcctatgtaa tcccatattg 60
tatgatagtg atttatatat ggttaaacca ctccctaatt attttagggt cttcgcattt 120
cgctcatcaa taatcatagc attgattgta gcgtgttttc agtttatcac gacgtctaat 180
gaacttcaaa gcctaattta tactaactat ttgaataggc cttgtactat acacagcaag 240
aagaatatca gctatttctt atatatagga cggtcgggga ggtgctctat attaatctag 300

<210> 1637
<211> 186
<212> DNA
<213> A.fumigatus

<400> 1637
aaccaacagc gactccataa tttgacgagc ctgcgagtag gcttcagctt taacctactc 60
cgcctattta tcggaccgga aatgcttcga attaactcct tcagctgtcc cgtttttatt 120
aaccgaacgg ccaattcctg ggaaatcaag gttttacctt ttccccctcc ccgctcccca 180
aaaatt 186

<210> 1638

<211> 309
<212> DNA
<213> A.fumigatus

<400> 1638
gtgatacgac gtgaggcgcg atactacctg ctcagtgcga tggcgaacca attacgctat 60
cctaatagcc atacatactt cttcagcttt gccattcttc gtctctttgg cgtggacaac 120
tccgagcagg atggatccga tatccgtcag cagattatcc gagtcttgtt ggagcggctg 180
atcgtccatc gcccccaccc ctggggtttg atcatcaccc tccaggagtt gctccagaac 240
cgaagctaca ctttcttcca ccttcctttc atccaggctg cgcctgaggt atgtcactct 300
tcggtttga 309

<210> 1639
<211> 603
<212> DNA
<213> A.fumigatus

<400> 1639
agtatattcg gtttccaggt atctatttct cctcaactgt gtaaggagac tccctttact 60
gatcgcactt tagatcgaac aacccccatt ggaaagttga taagtagcta tttacaaggc 120
cagtcccaag cggatgacca ttcgattcat ctcctcttct cagcaaatcg ctgggagatt 180
gcgaagagca ttgaagatga tatagccaac ggcatcagtg tcatagtaga ccgttactcc 240
tactctggtg ccgtttactc ggctgcaaag ggcaatccta atctgtcgct ggagtgggca 300
tggcagccag agatcggact gccgcagccg gatatgtgcc tcttcctccg catatccccct 360
gaagaagcag cgaagcgtgg cggattcggc gtcgagcgct atgagaatga aactatgcaa 420
aaccgcgtgc gtgagctatt ccaaacgctt tttgacctcc agcagggtga ttatattcac 480
acaattgatg ccggaaggtc cttcgatgca gtgtcgcagg atattatgaa gatagtgaca 540
gactatatcg ggagacttga tgccatggga cctttgaaga ggctgggagc actctcaaac 600
taa 603

<210> 1640
<211> 312
<212> DNA
<213> A.fumigatus

<400> 1640
ttaattttcc attccatggc cattttacg tctcctaagt cgcttcagaa tgtcaatgcc 60
ttggttcctc ggcagttcat gactcaaatg ccatcggggc tcatgaatgc tgggatgctt 120
caggatggcg gccatccgag ccatccatca ttcttccacc ttgtccttct ggttttcgaa 180
gctgtattgg aggtagtttg tgtcagcttg ccgggttaca tagttgccaa acaaggcatg 240
ttcgatgcag aagctcagaa gttggtcgcc aacctcaacg tcatgctgtt taccccatgt 300
ctgagtatgt ag 312

<210> 1641
<211> 294
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (190),(263)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1641
tatggcgcag tcttcatcaa acttggttct caactgacgg cggagaaaat cactgatctt 60
gccatcatcc ctttcatctt catcgttcag accttcgtct catattcatg tgcttgggct 120

atatcgcgat gtttccgctt caaaaaacga caggccaatt ttgtggcggc aatggctgta 180
cgtattccan aaattcttca ccacattccc tatctaatct tctctattaa caggtcttcg 240
gtaactcaaa ctctctacct atntcccttg tcatgtcgct ctcgcagacc ctaa 294

<210> 1642
<211> 348
<212> DNA
<213> A.fumigatus

<400> 1642
gaaactcagg tttatgctct ggagctccgt acttctggca ttcgagcttg gtttttccct 60
cgaggttcga ttccgaacga cattttagat aatatcccgg atccaacaac ctggggaact 120
gccttggccg actttcccaa taccaactgc gacattgcgt cccatttcag caatcagagt 180
atcattgcca atatcgatct ctgtgggcag ctgggcgcac agcctcagtt ctacacccac 240
ttatacaact gtcctggcac ttgtagcagt tttgttgcac gcaatcctgc caaccttacc 300
gaggcttact gggagtttaa gagtttcaag gtctatcaag ctcaataa 348

<210> 1643
<211> 795
<212> DNA
<213> A.fumigatus

<400> 1643
tctgtggaca tccactgtcg tagacgctac cggctgttgc ccacgaaagt tcccaacccc 60
agccttcccc cgccggaccc gtcactatgg attgtgcatt attcaagggc gcctcctacg 120
gaacatattc cagcgaaccg gattccagtc tccccgcaag tgcaaaacat gctggctcaa 180
cgtcgtttcc tccaaaacca gggtcaactg gcgcgcaaag attttatgct tcatgatcgg 240
aacaattggc ccacaatcaa ctttcctcca cagatagcgc cgcaagcact tgcccaaccg 300
gctgggccat accccaatgc catggttggc cgtcagccgt tctatcccca gcctgggcaa 360
cctgcgcctc ctcccgccgc tgcagctccg gccaaggcac cccgtggaca tcgcgcctca 420
accgcggcga tgactgcagc tgcagcagat tttgcactcg aggatgaaga cgtttccacg 480
ggcgacttga tggatttgct gactcctcgg gaagtaagca aaatgagata tcagcaacac 540
cacgagtgga tggaagagat cttcgcctcg ccgtatgcaa tcagtcagat cacgcctgtt 600
tctttggggc tcggtcgcaa aggcgaattg gagactttga ccgcaggttt tttcgatgca 660
ccggttgggc ctgcaagtgg tgattcgaaa gaaagcactg attctgctca agcgacgaaa 720
atggagcctg aaagggcaaa ggagtttgcc gaccgggttg ccaaaaaagt tgggcgacat 780
gactgcagaa attga 795

<210> 1644
<211> 498
<212> DNA
<213> A.fumigatus

<400> 1644
agcgcggtac cttccagccc gtggctgatg atcgatgagg gcatggagga cattgctgcc 60
gatgatggag gtctcgatcc tctcctggag gagatggaag ctgctctgcg cggggacaat 120
gaagcgcaac cacagggagc gccttcctcg gatactggcc ttgcgaatct ctatcaagct 180
ggaactccaa tggcgactaa accttctacg cctgcagcgg atacatcggg cgatgaaagt 240
gactcagatg ctgacgagga ggcggatgtg cctgaaaacg aactggatga tgagcagctt 300
gagcaacagc gacagttcca acaacatcgc gaagagattg ccgagctcga ggcccttatt 360
cgcgccgaga cggtcaagtg ggagaacatg cagaaccaaa tcttgaagca caagctcgcc 420
aagcgtatcc aggatttgaa gcgggatcta tccttgaaga aggtctctgt tggtgagggc 480
gatgacgctg atacttga 498

<210> 1645
<211> 585

<212> DNA
<213> A.fumigatus

<400> 1645
tacccgatcg catgttatgt acaactagca atgacatatc ctcatgccta tctactaaaa 60
cacaatttcc agctccaatt tatccctgcc tacttgtttc aggcaactgg atctcctgta 120
cctgcacgaa cggctccttt cacatccaga ttctcctctt ccttcagctt ccgctgtctc 180
agcgcttccc tttcggcggc ctctccgcgg gggtcttcag gactctggtc aacacgatca 240
cctagaattc gatcatgttc ctcccctctt cgctccatgt ccgcagcaag atctctttct 300
tctccaaatc cagggtgtcc tggcccttgt gcactgccaa cgggacctgc atgcgcccca 360
gcctgtgctc gctcgctttt ctgtcttaca gctcgagcaa tgtctccttc tgcgggttgc 420
tcctccacgc catattccaa gtcaacatca gaggcggcct gcagattctt ctgctcctgt 480
tcccgcctct gctttagtct tgcgagttct tcgtcattgg atggtttgga gtctacggta 540
cgtcgggtaa tggaagagac tggatcaccg cgctggcgct ggtga 585

<210> 1646
<211> 288
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (62),(148)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1646
tgggattgcc cgcccttcat cttcaaattg gttgttcctt caaggagtcc taaccggcgc 60
gngatcttca tcaacaaaac cgcggagatc cgccgcggca ccaggaagtg gggcatccac 120
gccaagcagg aggaattgga aatcgacntg ccggaattac tcgtcaccaa tttctcccgc 180
ccgctgcgcc tggtcgtgca cgaaccgctc atcgtcgccg tcacggtgta tctcggtttc 240
atctacgggc tgctgtactg tttcctgacg gcgtacggct tcgtctag 288

<210> 1647
<211> 345
<212> DNA
<213> A.fumigatus

<400> 1647
caggggtgt accacatgaa cgccggcgtc ggcgggctgc cgctcttcgg gatggtcgtc 60
ggcctgttca tcggcggcgc ctacatctgt ctgtttgcga gcagggcgta caaccagaag 120
ctgcaggcga atgccggcgt gccggtgccc gaatggcgtc tcccgccggt gattgttggc 180
ggggcgctct tcgcggcggg tatcttctgg ttcggatgga cgggcttcac ggccgacgtg 240
ccgtggattg cgtcgacgct cagtggcctc ttcacgggct tcgggctgtt gattgtgttc 300
atccagctgt ttaattatct gattgatacg tatctcatgt tgtaa 345

<210> 1648
<211> 330
<212> DNA
<213> A.fumigatus

<400> 1648
ccttttttt tttctaacga gttcagtgcg gcctcggcca tcgcggcaaa tacgttctgt 60
cggtctgtgt tggcagcgag cttcccgctg ttttcgcggc agatgttcaa taatatgggc 120
attcagtggg ctgcgacgct gctggggtgt gttgcgacgg ctctggtgcc gatcccggtt 180
atcttctatc tgtatgggaa gcggctgagg atgaggagtc ggtttgcgcc gattcttgag 240
ctggatgagg cggcgcatgt ccccagggag atgactgaaa ataaggggga agaggaggct 300

aatacgcaga cggaggagag tcagtcgtga 330

<210> 1649
<211> 204
<212> DNA
<213> A.fumigatus

<400> 1649
accgtcctgc gacatacttc agatgttgct gtcgtcgtgt gtctcagcct tggtattgct 60
atggccatcc atttgttcat gagggcttgg aaccaaaaca gcattggcat ctacaccccc 120
cagcacttct tctcctccaa acagggcatc ctgggtaggc tgaacctgtt gtccagcctc 180
aataacctgc ctgagctcgc ctag 204

<210> 1650
<211> 558
<212> DNA
<213> A.fumigatus

<400> 1650
cggtttgagt tgtcaggtac ccgagacagc ctccgaggct cagctgaaga gcgcctacaa 60
gaagggtgca ctcaaatacc atcccggtat gtgattgtca atgatatctg cgatggacgg 120
atttggagtc taacagggcg ttttatagac aagaatgcaa acaacccaga agcggccgaa 180
aagttcaagg aaatgtcccg tgcctatgaa attctttcgg atcctcagaa gcgtcagatc 240
tacgatcaat atggtgaaga aggtcttgaa ggcggtgctg gtggtccagg aatgggtgcc 300
gaggatctct tcgctcagtt cttcggtggc ggtggtgcgt ttggcggtat gttcggcggt 360
ggcatgcggg atcaaggccc caaaaaggcc cgtactattc accacgtaca caaagtcagc 420
ctcgaggata tctaccgtgg caaggtctca aaattggcat tgcagaagtc ggtcatttgc 480
cccggatgcg acggccgtgg tggtaaggaa ggcgctgtca gtcttcaccg accggggctg 540
gaaggaaacg cgtacggg 558

<210> 1651
<211> 210
<212> DNA
<213> A.fumigatus

<400> 1651
gttgaaccaa attgtttttg gggggtatcg cggcgaatgg cttctgccag ggtgatcatc 60
tcgggccaat gtctggcgca tttcatcatg ggcagtgcgt tcattgccta tggtatcatg 120
cttactatct tgttgctcgt tggtcagtac tggttgcgcc gcaccggccg cagtcaagag 180
ttcttcgact ccctggtcat cgcggcctga 210

<210> 1652
<211> 414
<212> DNA
<213> A.fumigatus

<400> 1652
ggatgcgtca acacctttac ggagcatcgt tggggaggac catgggtaca caatgatctg 60
cagcatacca ctatgggcat cgtctggtgg tgtgcaggtc ttttgggtat ttggatgagc 120
aggaagagaa atggccgccc caagcggaat ctcatccccg caatcgtcat tctgctgacc 180
ggctatgcga tgtcggctca tccccagacg ttgatgatca gcaccatggt tcacaccatt 240
tttggctaca cattgatggc tgcgggtttt accagaatcg ttgagattgc ctttgtgctg 300
aaagacaaaa atactgtgag tctcgacggc tcggacccta gtagcttcca atatctgcct 360
ccttttgtaa gttcatcttg catctgtctt cttgaaccag gcgatcgggc gtag 414

<210> 1653

<211> 336
<212> DNA
<213> A.fumigatus

<400> 1653
gctgctggtt cttattctaa cctcaacgta gtcgtcaata tccttctaca tatttacgct 60
gtccacgcat ggcccaactc cgccaagcca tctgcccatt ctcgatcttc aagcaccaca 120
gacccggttc aggactctac ctatattaac ggccacgccc gctcggcgtc cgagactcag 180
caggtccatg acgccgaggc gtttgagttg cagggtctta tctccgacga agaagatgag 240
gacgtgcccg gtaaccgaaa ccactccatg ggtcccagaa aagcggaaga cgaagaaagc 300
acccctttgg ttggaaagga ggcgtcgtcg gcctga 336

<210> 1654
<211> 246
<212> DNA
<213> A.fumigatus

<400> 1654
gttttgaatc caccaaaaga cccttatttc atattttcca aactagagaa taacctatcc 60
cgctctgatg actatgacgt gattgagatt cttggttctt gttgggaatg gcgttgctgg 120
atttggtgcc ttgcttttcg ttacttcctg actctatccg cggtttgtta tgccttgtat 180
atataccaga aggatggaat gactttacaa gaattcttca ccacggggct ggaaggacac 240
gcgcta 246

<210> 1655
<211> 231
<212> DNA
<213> A.fumigatus

<400> 1655
accaggcgat cgggcgtagt ttgggctgac aagtcatttt cacagctcct gtacgcctct 60
ggcttcctgt tcatgggtgc aacagaggag caaatgcagc tgctccacga tgctggaatc 120
acccatgtgt cctatgttct gatcttgtac agcattgcct tcattctttt cctctgtaag 180
tggattgtct ttctcctttg tccccttta ggctgctggt tcttattcta a 231

<210> 1656
<211> 405
<212> DNA
<213> A.fumigatus

<400> 1656
tccttcggcc cctctggtga agattcacaa tcctcccttt tccaggtcta cctgcgactt 60
cggcctcccg tttcgcagca ccaggatcct tacgctgaac gttgtcttgt gattgagtct 120
ccagaggaga agaccaacaa tgctgagagc gatggggcgc catcggctcc tattccaaca 180
catattatac tacagccacc aaatgatgcc aggaagcgtg ccgtcgagaa attcggcttc 240
accaaggttt tcgacgagtc ggcttcccaa ctgactgtct ttgaggatac tgggctggaa 300
tctttaatca gaggcgtact tcttgaaggt agagatgggt tggttgccac actgggtgtg 360
acagggagtg gaaaggtgcg aacaataagg actgtatggg actga 405

<210> 1657
<211> 675
<212> DNA
<213> A.fumigatus

<400> 1657
caccaaacca gctacccatg ggccaaggcc aaaccgtcga aaaagaagag cgctaggcaa 60

gccctcatcg acgaagctct gacccaagga gtccagcact gcgtgtacac ctcggtcgac 120
cgcggcgggg acgcatccac cgacaacgcg accacatccc gcactttcat cagcaagcac 180
cgcatcgagc atcatctctt cgagcagacg catggtaccc agatgtcctg gacggtgctg 240
cggccggtct tcttcttcga caacatcacc cgggacttta tcgggcggct cgtcgtgacc 300
gcgtgggacg cgtacctgca ggggaagccg ctgcagtgta tcgccgtcag cgacattggc 360
tatttcgcgg cgcaggcgtt tctgaacccg gcggagtatc ggaaccggtg cctgtcgttg 420
gcgggggatg tgctcacgta tgagcatatg caggagacga tgaagcgcaa gacggggcgg 480
gaggcgccga cgacgtttcg cctggtttgc tatgctgtgc tctggatcgt gaaggacctg 540
cgtacaatgt ttgagtggtt gtatgcgcat ggctaccggg ctgatattcc gaggttgagg 600
gagatgcatc ccggcttgaa ggatttcgag aggtggttgg aggaggacag tcagtttgtt 660
aaccgtcgtt cttag 675

<210> 1658
<211> 435
<212> DNA
<213> A.fumigatus

<400> 1658
tatctgcccg tggcgaagtc tttaaacgtt agaaaaatga ggtctatcct tgttaccggc 60
gcgacaggca aacagggcgg cgccgtggtc aacgccctcc tcgccgaaga cgccgacatc 120
gagatcctgg ccgtcacgcg caacccgcag tccagcgccg ccagaaacct agccgacaaa 180
tcccccaaga tcaaagtcgt gcagggcaac ctggacgacc cggcgggaat cttcaagaat 240
gcccaccaag tatcatccga gcccgtctgg ggcgtgttca gcgtggcagg tacggactac 300
ggagtcctca ccggttccca ccccccaag cccctcagag caggatcgac tgacaccaaa 360
ccagctaccc atgggccaag gccaaaccgt cgaaaaagaa gagcgctagg caagccctca 420
tcgacgaagc tctga 435

<210> 1659
<211> 366
<212> DNA
<213> A.fumigatus

<400> 1659
agactcacca tctccataat ctctggcatc gtcacgttga tagcgtacac aaccagccca 60
cgcgagctca caccccaatc ccaggactcc ctcttccgct gcggcacctc cgccgccgaa 120
gccaaggccg caggatgcca tttcgacctg atgtccttct cctggctgcc gtccgcctgc 180
tacaatgaag acctgacaaa cgaattcctc aactacacgg actggaaatg gtcgctcgac 240
agcgaggggc gccacctcgt cccaaaggag tatgtccagc agggagactt tgagtacctc 300
ttcacgagct acgagtatca tgttgtacac tgcgtgttta tgtggaagaa gacgcagtgt 360
attctt 366

<210> 1660
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1660
ggatctgata cagtgggtga tcacctgacg cccggtccca cctgccgccc aatttccctc 60
acagactttc aaaatgacca aacttcaact gctcataact ccactaatat aactctaatt 120
aaagcagctt tagaagtaat taaattattg gaactaggta aattaattaa ttatactttc 180
tttataaaca agtatggtgt tagctag 207

<210> 1661
<211> 456
<212> DNA
<213> A.fumigatus

<400> 1661
gatttgtcga gttggatact ggaatcgagg aagcaacgaa tgtatgcttg ctttgcatta 60
aggcttgatc tatggttctc taatggtttg tatttacaga ctctgatcga ctccgatgcc 120
ccggtgttgt tgattcgaga gaccccggaa cacaaaacgg ccgtgggcac tttcgattac 180
tcggatttga atgcatacct tcttcttgcg gccggactga cgcagcctaa tgaagaactt 240
cgtgaatcgt atgaagagct ggcgagaaag gccagggacg ggcacaaaat tccattgaaa 300
gacgtgaaag agctgggccg gagtgagccg ctgaccacgc ttcctgcatc agccaacttg 360
atgacggctg tcgagacgtt cggcggcggt gttcaccgtg tggtcgtggt ggatgaacac 420
aagaacggcg aagtggtggg aatcgtcagt caattc 456

<210> 1662
<211> 246
<212> DNA
<213> A.fumigatus

<400> 1662
cataaaaaac acgtttccta ctcgctggac agcagtactt tgcaaaggaa ggccgttctc 60
ggcttcttca cggaacctaa ggctcctggc gaggtcgtcg gctgcatatg tcggcaccac 120
aagcgacctt tggccagcag caagcgcgag gattgccgcg agaagtggtc gaactcgcct 180
accaaggatc aagaactcga ggccgaaagc acggcctgga tcgccaacat caatccaagg 240
ggctag 246

<210> 1663
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1663
gtggcggatg cagagacggg gatttcactt gaagctgcgc acatccttcc tctatatgag 60
ctgttgacta cgaagtactt tctgcagaag atgacatatt ttctacttta tcttttgtcc 120
tcttcttacg aagagattgc ttgctctttg gaagggaata aagatctaca aatagagggc 180
tgcgggtacc ctaggacagg ttgttga 207

<210> 1664
<211> 384
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (173)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1664
agggtgtgta ctgatcactg cagtatgctc cctgccattg cttacaccct agatatgtac 60
cgccgcacag gcgaattcta cggcatcaac gaggcgctct tctcgtctgc gttggcagcg 120
atgatcttca gtgtgcttgg tgcgcagccg ttgactatcg tgggtattac ggngttgatc 180
tcgctgttta actatactat ctacgatatc gtgacgatct atgagccggc catctacccg 240
aatttcatgt gctggacggc catctgggcg gccatcttcc attggatcgt ggctgtctgt 300
aacctgtgtg actatatgcg ctatgtcacg gacttttttcg tcccagtcgt ttggtgccta 360
tgttgggatt atctactgga gtga 384

<210> 1665
<211> 309
<212> DNA

<213> A.fumigatus

<400> 1665
gaacaggaca agcgcggggc ggctcccgag gccctccgtg ccgggtcgga tctgctggcc 60
gatctgcacg ccacttcttg tggtctaaag gcactggcca gtaccaccgc cggagagggg 120
ctggagatct gtcgtcgcgc ctgtggtggt cacggataca gcagctacag cgggatcgga 180
ccctattatt ccgactatct tcctaccctg acctgggagg gcgacaacta catgctcacc 240
cagcaggttg cccgctatgt aagttcttgt gacctgcgtg gactgtcatc gatgctaatg 300
ctggattag 309

<210> 1666
<211> 519
<212> DNA
<213> A.fumigatus

<400> 1666
ctcctcaaat ccgctcgtgc agtgcttgcc ggcaagggaa ccggcaacga caccagccag 60
atcctccagg cataccttgc gcgtcgcgac aagggtgcct cgttcgacat tctcgaggtg 120
gacagcgata ttgtggccgc gttcgcctgg cgcacagccc acctcacctt cgaggctctc 180
aaacaccgag atctcgagaa gcggtcatgg aacagcctgc tggtcgactt ttggcgtctg 240
tccacggctc actcgcagta cctggtggtc aagaactttt acgaggcggt gtcgtcgccg 300
gatctggccg ccaagctcgg cccggagacg accaagatca tgcacgacct gttccgcctg 360
tacgctctac acacgctgga gcgcgaggcg gccgagttct tctcgtcggg cgccgtcacc 420
gtccggcaga ttactctcac ccggaccaac gcggtgatga agctgctgga cgagatccga 480
cctcacgccg tccgcctggt ggatgcctgg aagatcccg 519

<210> 1667
<211> 750
<212> DNA
<213> A.fumigatus

<400> 1667
tacctaagcg cgtatcctgc cagcccggtg ggtgaagacg ccgccaattt gcaggccacg 60
atcaactccc gcgatggctt gggccaaact gcccagattc tcctgctcgg tccttcccgc 120
ttagacaatc agtttgcccg ggacgcctac ccggccacag cgacctcggc cccggacgtg 180
gaaggactct cgcacgccga ggtccactac gtgttcgagc ctactccact tcccggtcag 240
agcagcaggc acggcggcaa cttgagcatg agtagctttg ccctgtctag atatccgctg 300
gcatggaagc tcatgtcaaa accgtgggcg gagtccaacg actcgatcag cgatctatca 360
accagaaacg aacacggata tcaggttgcg gtcggcgcga ttcggcccaa gacgtcgatg 420
gcacagtgga tcctgttggt cgaacagacg caggcggagg ccttcgcccc gatcaacaag 480
ctcaggaaaa tcattctggc atgcgtcttt gggactatag ggttcattat cctgatcgtt 540
cctccgctca cccatctggc cgtggccccg attctccgct tgagcgaggc cacgcgcaag 600
tcgatcgagc ccccgtccca gcctccgcat gattgccctc cctccagcgg accgtacatt 660
gtaggaaccg ccgaggcgga gacggagccc cgtgcttttg gcgaccacat ggatgagaag 720
ggtctagtag cgtgggtgaa acatttctga 750

<210> 1668
<211> 357
<212> DNA
<213> A.fumigatus

<400> 1668
cagagccgac acccgacatg cttcttgccc ggcgtatgcg tcgtcacagg tggtctcaat 60
cagcgtagat cccgctgtct ttatcacttg ttgactgtgg tgcctcagat tctgattcac 120
cgtatcggcg gaggcgatac gactgatgta ctgggaaccg atgttgtaaa acgtctcacg 180
caactgaaca tttccacttg ccaggaagat acctctaatg cagatctgga acagctggtg 240

cagtttttcg tctatgatat ccccacttcg ccgtgcactg tctgtactcg tggacgtaaa 300
ttcgagaccc ccgataagag tctcggcgag tcgtgcaagc tcgattgcct ccggtag 357

<210> 1669
<211> 672
<212> DNA
<213> A.fumigatus

<400> 1669
attgcgttta accgttacct ggctcttcga tcatggacag agctcatcac accgatgctg 60
gcttgttctg agattgaggg tggccgaaaa ccaacgttta tcttgcattc aatccagttg 120
gttctcccta aactcgaagc agccatcgag gaggacctac cggaggcaat cgagcttgca 180
cgactcgccg agactcttat cgggggtctc gaatttacgt ccacgagtac agacagtgca 240
cggcgaagtg gggatatcat agacgaaaaa ctgcaccagc tgttccagat ctgcattaga 300
ggtatcttcc tggcaagtgg aaatgttcag ttgcgtgaga cgttttacaa catcggttcc 360
cagtacatca gtcgtatcgc ctccgccgat acggtgaatc agaatctgag gcaccacagt 420
caacaagtga taaagacagc gggatctacg ctgattgaga ccacctgtga cgacgcatac 480
gccgggcaag aagcatgtcg ggtgtcggct ctgctatttc tcaatctgct ggccactctg 540
gatcgagaaa cagactcaac tctggcagag ttgatctcac aatcgaatta tctcagtctt 600
ttcttggacg ccatcagagc gctacctcac gaactgaaga acactcaagc aaatggtaag 660
ttgtggaggt ag 672

<210> 1670
<211> 1296
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (736)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1670
agcccttcct tgggctttca agaccacagc gacgatacct ctaatatgat caccaacgga 60
gagctgccat ccgtgccccc gctgcatctg ggagagagcc gcactcctcc ttctggtgac 120
cagcaccatc agcagcacca tgaaagtcgg aagcactcta gcagaaaacg ccggaagtcg 180
gtccaccctg acattgttgc ccgtgctatg gtggatacca caatcgcaat catcccagcc 240
agcgctttcc ggcgactgac cagggtctac ccaagggcaa ccgcccacat cgtccaggtc 300
atcctcaccc gccttcagag agttacgttt gcaacggcac attcctatct tggtctcagc 360
aacgaggtgc ttggaattga aaagcaaatg accaagttta ccacgtatga tctgccaaat 420
aacatgcgcg gcgcagctct ggatcgcctc aaagacaagt tcatcaagga gcgggatcgc 480
ctaggctctg aggaagtcac gaagggaatt gccctgcaca atccatctgc gggtagacga 540
cgccggtcga gcagcttcct gagaaaggat gctgcgctgc aagccaagct gatgacaccc 600
agacgtgcgg ccaccgtggt taccccggag agtgcacccg ctgagcacga cacatatgga 660
gttagtccag gcgacctatt atcgaccatt caatcctcca gattcggccc caggtatgag 720
cagcctcctg caaaantaca gactcctttg gctgaaaagg agaacaccca tttccgactt 780
cctgccatgc aagcgcgtca tactttccgc cgacaagaca ccatggacga ggacggactg 840
ttccgcgagt gcatcttgga ctgcatcatg aagggaatcg gcctcacgag tagtactcgt 900
gacgctttgc gcaaaagcaa ccattctggc gaggcttctc cgaagctcct ttcctatgat 960
tctcgacgtc agaaggcgat cttcaccaac aacgcctttg gctttattga cccatacgaa 1020
ggctctgggg acggggagac ggagtcgctg atgtccatgt ctgtaacgag tgcaggaggc 1080
acatcgccag tgatcaactt gcgggaagag ctccgtaacg acatcgagat cgtctatttc 1140
cccaagggtt cggttttggt cgagcaggga gagcgccacc cagggttgta ctacgtgatt 1200
gatggattct tggacgtcgg cgtgccgatt gtcgacaaag gggaggacct cgtggggtct 1260
cgtcttcacc acggggctgg caggatacgc gcttag 1296

<210> 1671
<211> 213
<212> DNA
<213> A.fumigatus

<400> 1671
tcccgctgtc attcttttt gtttgccaac atggtgtcca gcaagctttc tttcgtcgcc 60
acggctgttg cagccttggc tcccctggcg tctgctttcg atgcctcctc aagatccaac 120
cttgccatct actgggtacg tttcgaccgt agcaatcgcc ttcgcttcca gtttctgcat 180
gctgatcatt gtcttgcagg gtcaaggtcc taa 213

<210> 1672
<211> 747
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (699)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1672
cgatatctct ccttctcttt ggtctggcct tcccacttcg caagtcttcg tccgttgaga 60
gaccgtccga cttgcctgca gacatttgtc tgcgtccttt ctttgaccct caccgtctac 120
actcctttct tgtgcggtag ttggctggga tttaatcccg ctgtcattct tttttgtttg 180
ccaacatggt gtccagcaag ctttctttcg tcgccacggc tgttgcagcc ttggctcccc 240
tggcgtctgc tttcgatgcc tcctcaagat ccaaccttgc catctactgg gtacgtttcg 300
accgtagcaa tcgccttcgc ttccagtttc tgcatgctga tcattgtctt gcagggtcaa 360
ggtcctaacc agctccgtct gagccacttc tgtcaagaga cctccttgga catcattaat 420
attggtttca tcaactattt ccccgatatg agcccgggac actggccggg ctccaatttt 480
ggcaaccagt gcgacggttc tgtctacgtt actaatgatg gcgttgtaac caagttgctg 540
tccggctgcc atcaaatcat ggaggatatt cccatctgcc aggcggctgg taagaaggtc 600
ctgctctcca tcggtggtgc ctatcccccg gaccagagta tcctctccga ggacagtgct 660
gtcgcgttcg ccactttctt gtggggagct tttgccccnt cgcttgaggc tgggaaggtc 720
ctcgtccctt tgggatgtcg tcgttga 747

<210> 1673
<211> 321
<212> DNA
<213> A.fumigatus

<400> 1673
tgctctgtta ttcacctcat gcttgctggc ctcaacctcc ttccctctac ctccgagtct 60
catatcgtta aatacaactt gcacttctac gcatctctct tccactctac caaccatctc 120
tcttctctca tactccctca aacctgccaa tcgtatcttt ctatccttac tcagtgtctt 180
ccaatcatcg tcttgcactc attaagcttc aaaaactgtc tatcttgcaa tttcaagcga 240
gctttcttca gtgttattgt gactcaagta aatttcgtcg cgaagatgtc gccctccagt 300
tttcctggtg cccctgcgtg a 321

<210> 1674
<211> 501
<212> DNA
<213> A.fumigatus

<400> 1674
agcggaagcc acaccatcgc cgaccccttc gttgctgtca atatgacttc cttcttgcca 60

gtaaataata cgtcttcgcc gcaaactcgg cccatggagg aggtagcaac cgcagccaca 120
cctcgacctc atacgaatgt gtcagccaca gaagagaaca ggtcgcgaac tatgaacagt 180
ggcacagaag acgcaactcc actcaacctg cataaggtcc aagaggactc ggcttctcga 240
acaaaaccgt cattaggtca caatggaact tcacatgggg aatccgatgc agaccgtgat 300
ggctccgatc atgactccga cgccgcaggc aatgcccctc catcaaagaa gaagaaaggg 360
caacggttct attgtacaga tttccctccg tgcaatttga gctttaccag aagcgaacat 420
cttgccaggc atatccggaa gcacactggg gcgcgtccgt ttcaatgtca ttggtcccag 480
cgaatttcgc ggtctggata a 501

<210> 1675
<211> 1014
<212> DNA
<213> A.fumigatus

<400> 1675
cccgcactcg ttgcgtccgc tcaggcgtac cgtatcttcg agtacacagg tacccgctgt 60
acaggcgcgg aagtgggcat cttccgcgtt gctgggccaa gtgcctgtac caaattgaat 120
gagggagtcg cttcctctgt cctagtcaag atcgataaca tccacgacga ccagtactcg 180
gtcaatgtct atgagaatga ggattgtacc ggtggtatcg ttggcaaaat taccaatatc 240
aacggttgcc tcgatctgta cgctttccat aaaaccgtcg gcaaagccgt gcaggttgtc 300
cctgtctcca aaaagcgcga tagatccgtt tccgccacca agggtttagt gacagacttc 360
caatacaacc ttccggagga gactgagcag aagatgaagg ttcccatcat gcatggcggc 420
ttccggacga tcagcaagtc cgaccatgcc gaggacggga catacctgaa tgaggccttt 480
ggtcttttcc ttcctcttcc agaggagaac ctggctgctg ttcatgagct ttggtccact 540
cctcttgaaa tggcccccta cgactctgcg aacgaaacat cgctccatga tttgagcgag 600
aggcagtttg aatgggccta ttgtgagtgg cacgctattt gcctaggggc agccgactta 660
ggcggtagac tcagcaactc tcaggtagcc caagcactag ccaactttgc cggtagcacg 720
ccattcaggc aattttggaa aacagttgat gttatcgtgg ggcacaccgc caatggaatc 780
acgatcattt cggcattgac gacctacgga acgcaaaata caaagtgtga tactgacaag 840
acgacaggcg ggctgctcaa ggatttggtg aacggagtgt cgaccgaagg tctcaccaac 900
gcggtttttg tggtggaaga tgatgaggga aggcaatttg aagtgggcat ccagttgcgt 960
ccgatgggag gacgcaaccc taacagctgc ggcgaatgtg ctctctgcca gtga 1014

<210> 1676
<211> 1095
<212> DNA
<213> A.fumigatus

<400> 1676
agacgtctgc tcgcatgccc tcggaggttg gataaaattc catctcatct gaagtatccc 60
accgaaaggc aggattccca ctacaatttg cagtcactat tcctgattcc tcagcacgca 120
aggatgccgc cagcaccacc ggaccagaag ccctgccacc agctgcagcc cgccccgtac 180
cgggccctca gtgaaagcat tctctttgga agtgttgacg aggaacgctg gtggcatagc 240
acagcgccca tcctctcaag gcttctcata tcctccaact acgacgttga cgtacaatac 300
aagtacctgt cgctgtatcg acacctggtc ctccccgcct tgggacccta tccccagcgg 360
gacccggaaa cggggatcat tgcgacgcaa tggcgcagtg gaatggttct taccgggttg 420
cccatcgagt tcagcaacaa cgtcgctcgg gcgttgattc gaattggggt tgatcccgtc 480
acggctgact ctggcaccgc acaagaccca ttcaacacca cgcgtccgaa ggtctatcta 540
gagaccgccg cccggctcct gccgggggtt gacttgacac gcttctccga gtttgagacc 600
gagctggtga tcaccaaggc agaggaagcc gtcctccaag ccaacccgga cctgttcagg 660
agcccctgga aatcgcagat cctcaccgcc atggacctgc agaaatccgg gaccgtcctg 720
gtcaaggcgt atttctaccc gcagcccaaa tctgcagtga ctggccgctc gacggaggat 780
cttctggtca atgccatccg caaggtagat cgcgaggggc gcttcgagac gcagctggcc 840
aatctgcaac ggtacatcga gcggcgtcgc cggggcctcc atgtcccagg ggtcacggcg 900
gacaagccac cggccaccgc agcagacaag gcgttcgacg cgtgttcgtt cttccctcat 960
ttcctgtcca ccgacctcgt cgaacccggc aaatcgcggg tgaagttcta cgccagcgag 1020

cggcatgtga atctgcagat ggtggaggat atgtcttcac cacggggctg gaagagagcc 1080
gctccaagtc tgacc 1095

<210> 1677
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1677
accctgtact ttacgtacgt ggttcgttgg cgcgctcttc tgacggacaa ccgcaaccct 60
ggattctccg gctctactac tacctggtac ttctttgaca agatcttcgc cttgatgagt 120
gcgtcgacgt tctcagatgc ctctctttcc cgcgaatccc agaggtttgt ccgaccttcc 180
ttcgcaccgg aatggtcttc t 201

<210> 1678
<211> 612
<212> DNA
<213> A.fumigatus

<400> 1678
cttttgggac ctgatgggcc ccgtgtccct ctcaccagag tgtacagtga tcttcttgcc 60
agggaagttg tcgaatacgg caaccgtggt ttgcgcgtca ttgctctggc tagtgtcgac 120
gatattgcgg ataacccccc tttgcacaat gctcaaacca ccgaggagta cgctcagctg 180
gaaaggaaca tgactctgat tggccttgtt ggaatgctag accctccccg caccgaggtt 240
gctgactccg tgaagaaatg ccgtgccgct ggtattcgcg tgattgttat caccggtgac 300
aaccgcaaca ctgctgaatc tatttgccgt caaattggtg tctttggtga ggatgaggac 360
cttacgggca aaagcttcac tggccgggaa ttcgacgccc tctcggaaag tgaaaagctc 420
gaggccgtca agaaggcgtc tctattctca cgtactgagc cgagccacaa gtccaagctg 480
gtcgatcttc ttcaatctct gggccatgtg gttgcaatga ctggcgacgg tgtcaacgat 540
gctcctgctt tgaagaaggc cgacattggt gttgccatgg gtactggaac ggaatttggg 600
ggtttttttt cg 612

<210> 1679
<211> 411
<212> DNA
<213> A.fumigatus

<400> 1679
tcctcgccca aagaggcccc agacgaccat ctaatctggg aaaccgatac ctcacgatct 60
aacatgcaca gcttttatcc cgatacccag gaagattgtt acttactact gaatgttttc 120
ctggccaata tcgatccaat tgtgcgaata gtgcattgtc ccagtttagc tcgtcgcttt 180
gatggactca ttcgcacccg ttattcccta gacaagactc aagttgacgg cagttacagt 240
aactgtatgg cattcaaccc ccatcattcc agtgcatttg agccgctggc catgtccagt 300
ttctatgcag ccaccaatag catgaagaca atagatgttt ctacagtctt ctacacagac 360
aaatcccatc tctggctgat gtacagtagt gatatctcga tacaagtttg a 411

<210> 1680
<211> 651
<212> DNA
<213> A.fumigatus

<400> 1680
tctaacttaa accagttctc gctcgtccaa tgggctgtct cctggcatcc agctggcaaa 60
ggctcctacc agagatcctg gctgaacatc ccgggcaaac tggggtggtt tctcatggag 120
atcgtgggac cagcaaaact gctctacatt ctttacaaat tgccgccagc gctcaacatt 180
acctcgctcc cactatctaa taagctcgtt gcgtccctat acgtaatcca ctatgtcaac 240

cgtgccatca tctcgccgtt cttcgcggcc cccagcatgt cccccatgca tgcgtccgtc 300
gtctccatgg cggtgctgtt caactggctc aactcgacct gtctggctgg ttggctggtg 360
ggataccacg tcccggtgct ggggtacaag accgacggcg ccgtctcggg cgttccggga 420
gggccgtcgt cctactccgc cgcaacgcac ttcctgcctt gcctggggat ggtcctcttc 480
gcagccggta tgataggcaa catccactcg gagcgcaccc tcttccatct gcgccgcgaa 540
gcagcagaga agcgcgacgc ggccgataag tccgacgagg atatcaccca gcatgggaga 600
cgaggaccat ccgaccttta tccaggcatc gtcctcgtcc tcgtctactg a 651

<210> 1681
<211> 561
<212> DNA
<213> A.fumigatus

<400> 1681
gcaacatcca ctcggagcgc accctcttcc atctgcgccg cgaagcagca gagaagcgcg 60
acgcggccga taagtccgac gaggatatca cccagcatgg gagacgagga ccatccgacc 120
tttatccagg catcgtcctc gtcctcgtct actgacgcgg atgccaacgc caatgccaag 180
ggcaggaaga ataagtatga caaggtctac gtcatcccac ccgcccgcgg tgtcttccgt 240
tccatcctct acccgcatta cgccttcgaa tggctcgagt ggctcggctt ctctctcgtc 300
ggcacggccg tcttccccgc cgctcaggca ctcgcctatg cctcgccgcc cttgcccatc 360
gttccgtggc tgaagcccgc tgccgcgctc gcggagacac tacaggttcc cctgcctctt 420
ccggcggtcg tgtttgttgt taatgcggtg gctaatatgc tgcctcatgc gcgctggggg 480
aggaagtggt atgtagagaa gtctggggag aaggcggtcg cgggtcgagg ggctgctgtt 540
ccatggtgtc cgtggctgtg a 561

<210> 1682
<211> 1776
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (35),(1620),(1647),(1648),(1675),(1731),(1738)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1682
ctcgagatga gcgacagaag aaggagaaca ggttntccac tcggcaccgc tgtgcgtcct 60
tctcttctgg cgtgcaccga gtgccgcaaa caccacgtca aatgcgacgc caaaaagccg 120
gcgtgttccc ggtgcttgga tgcccgtctg ccctgcaact atctcccgtc gcgaaggggc 180
ggtagacgca aaccccgtag cagcctgctt ccgcctctgc agggagtaac ccccgacttc 240
ccaggcatgg cgtatcagac tccgctgtcc gaaacagcgg gcgggaatcc aaccaccggc 300
ccatccagtt cccccgtgac gggcaaagag gcctcatcgg tcgcctcaag gaactcgccg 360
cagaatgcac cgcttgtggt accagattcg cggttcgtac gtctttacta tgagcatttc 420
cacaatgcgc atccgattct ggttcccgcc tcctcgtacg aggagcggaa ttatcccagt 480
ttcctccagc atgtggtgcg gttcatcgga agccattact cgctgcaggt ctctggcgac 540
tcgttcaagg acgcgacgat gctgcaactg agccactcag gcgagcggac gccctgcatg 600
gtgcaggctt tgctgttgta ctcgatcttc ctgtgtgcgc gaagtgagtg cagcgaggcg 660
gagaaaacgt tctcccaagc aaccgatatc gccctggaac tgggaatgtt ccgtcgagat 720
tttgcaacga cgttctccaa cgggaatgag accgaagcgg agagtttacg gcggacctgg 780
tgggagctgt tcattgtcga cgtgttcatg gcagcacgac caccaaaggt cgtccttcgc 840
tgcgggaatg tcccctacga cgtccctctc ccgtgcgagg agtatgttta cgccaatcga 900
aaggagatcc cacccccagc gacctttacg gcctttaaga tgcgcgtatt tctagaggaa 960
gacggagacg ctcgtttctc gcgatattca tcgttcagtt atcgcatcga agcagccctc 1020
atcctggctc gcgtgcttgt gttgaacagt ctgccggaga cgcaccgcga tcatctgcag 1080
gccgtggaga atgcgctcat cagctggaca aaccacctgc caacgcacaa ggtcgacatt 1140
gtcgatatgt acggcaacgt cgacgagatg cttttccagg cccacacgac cattcagtac 1200

gccgccatgc tgctccacct tccacgcagc aatttgcgcc ccgagttccc cgatctccac 1260
gttcccatct gcccgaccac tcctctgcgt ctatcaccat catgcacccg acacgtccat 1320
gatgtgaaag caacagaagc ctcgaagcaa ctctctaatc tcctctccat gcgcccgagc 1380
gcacagggat acagcccgct gatcgtgtcc ccgctcgtcc tctgcggcat ggtccagctg 1440
gcaaccagcc gcatccactc gccagagtgt ctagaccatc actgcaaccg cgtggtgctc 1500
gtgctgggct gcttaaaaat cctcagctcg agctggcctc ttgcgcgcca ggcccagcag 1560
catcttcgac gtgcagcggg cgactcgttt acctcctgga ttgaatcgca gcatctccan 1620
ggaacggccg gtctggctcc tgcatcnnag aatgatgctt acagggaatc ctcanccgat 1680
cagaacacct ggttcagtac aggccgtcat ggggagaaac gggaagtcca ntctcttntt 1740
ctcgccaggc atgctcctcg gggtaattcg aatccc 1776

<210> 1683
<211> 516
<212> DNA
<213> A.fumigatus

<400> 1683
ggattcaatc cccacccagg aagagcacga atcttcgagg acgaaaccaa caccaacgtg 60
gagaaggttg gaaacacacg gtcgccttcc gcccatggag gaagatcaac ctcgcggagt 120
cgaaggacgc catgtctccg catgaagcaa cgacgctcag atcttcgctc cgcattctcc 180
agtgccggtg agaaccatct cgatgagcac aagaagcaac cgaacggcga gaatgagcct 240
caacaggagc cttacctgga ctatccgatc gtagatctga gggagctgga tgacatgacc 300
ggcgctacca ctccaacgtc cacccccagc cgcggctatt tgcacgagcg tatcccgcct 360
gtgcctccgc ttccaaagaa cctagctgcc accgctgcaa aggtagatag acggctagcc 420
agggagctct ggaagatgaa aaacgcacag atgcaggact cgggccagac gccacctaag 480
gaagaggatt ttcgatggcc cgaggatatt ttctga 516

<210> 1684
<211> 540
<212> DNA
<213> A.fumigatus

<400> 1684
actgatacgc caagtgcgga tcctcccagc cccgtggtga agaccatcgg tgtagtattc 60
gtacatgacg ccgttggtcc agtggcggaa gccgtagacg tcgtgtttgg ggttgccgcc 120
gaccatggtg atgaaggtga ggaagatgag gcccaggagg aggaggattt tggtcgaggc 180
catgatgaat tcggcttcgc cgtagtactt gacggcgacg aggttcagcg cgaggcagat 240
gaccatggcc atggcgaccc aggccgctgg gttgacgtcg atctgccagt agtccatgat 300
gaaggcgacg gcggagtatt cggtgcagac gagcatcagc ccggcgtaga aatagaccca 360
tcccctagac agatattcat ggtcagtgcg tgtcccccag gaaccgaaga gaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aaaaagggaa cggcagaagg cgctttacat ggcgaatcca 480
aacgccgggt cgacgtatcg cgccgccagc tcaaagatcg acccgcggat gggcaggtag 540

<210> 1685
<211> 510
<212> DNA
<213> A.fumigatus

<400> 1685
gctggcggcg cgatacgtcg acccggcgtt tggattcgcc atgtaaagcg ccttctgccg 60
ttccctttt ttttttttt ttttttttt ttttttttc tcttcggttc ctgggggaca 120
cgcactgacc atgaatatct gtctagggga tgggtctatt tctacgccgg gctgatgctc 180
gtctgcaccg aatactccgc cgtcgccttc atcatggact actggcagat cgacgtcaac 240
ccagcggcct gggtcgccat ggccatggtc atctgcctcg cgctgaacct cgtcgccgtc 300
aagtactacg gcgaagccga attcatcatg gcctcgacca aaatcctcct cctcctgggc 360
ctcatcttcc tcaccttcat caccatggtc ggcggcaacc ccaaacacga cgtctacggc 420

ttccgccact ggaccaacgg cgtcatgtac gaatactaca ccgatggtct tcaccacggg 480
gctgggagga tccgcacttg gcgtatcagt 510

<210> 1686
<211> 363
<212> DNA
<213> A.fumigatus

<400> 1686
tctattgtcc acaggtatat gctggcggcc atggagaaaa aggcggtcct cgacgatcgc 60
caggatacag acgccggcag catcgttccc tttccccaga cccagcgtgg tctgacgtcg 120
cgccatgtcc agttgatggc cattggtggc tcgattggaa cgggcttgtt tgtgggcatc 180
ggcgcctacc tgcgcgacgc aggcccactc tcgctgttgc tgggctatct ggtctggggc 240
atcgcgttca ttctccccat caacctcagc gtcggcgaaa tgtgcgccta cctgcccatc 300
cgcgggtcga tctttgagct ggcggcgcga tacgtcgacc cggcgtttgg attcgccatg 360
taa 363

<210> 1687
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1687
tgtattgtac tcgcccaaca tgacaagaac gatcgcattg aaagtctctc aacctgtcaa 60
atcatcatgc ctacccttcc aactcgtccc ctgggcaaaa acggccctca agtcccccgg 120
ctcggcttcg gcttaatggg cctgagtacc ttctacggca ccgccaaacc cgactctgag 180
cgactcgcat tgctcgatgc tgcatacgag ctcggcgaaa ccttctggga cagcggtatg 240
tatttccccc tcactgacca tgaagaccac tcacggtcaa tctag 285

<210> 1688
<211> 303
<212> DNA
<213> A.fumigatus

<400> 1688
ccgacatgta cggcgacagc gaggacctcc tcggcaaatg gttccaagcc aacccctcca 60
aacgagacca catcttcctc gccaccaaat ttgcgaaccg cgtgggccca gacggacaac 120
gcttcgtcga gtcttcaccg gaatacgcgc gcgaagcatg ccatcgctcc ctcgcccgtc 180
tcggcgtcaa gaccatcgac ctgtactact gccaccggct cgaccggaag acccccattg 240
aaaagaccgt cgaagccatg gcacagctca aggcggaagg caagatcaga tacctcggtc 300
tga 303

<210> 1689
<211> 591
<212> DNA
<213> A.fumigatus

<400> 1689
agaccactca cggtcaatct agccgacatg tacggcgaca gcgaggacct cctcggcaaa 60
tggttccaag ccaacccctc caaacgagac cacatcttcc tcgccaccaa atttgcgaac 120
cgcgtgggcc cagacggaca acgcttcgtc gagtcttcac cggaatacgc gcgcgaagca 180
tgccatcgct ccctcgcccg tctcggcgtc aagaccatcg acctgtacta ctgccaccgg 240
ctcgaccgga agacccccat tgaaaagacc gtcgaagcca tggcacagct caaggcggaa 300
ggcaagatca gatacctcgg tctgagcgag tgtagcgcag actccctgcg gcgcgcgcac 360
aaggtccacc ccatcaccgc cgtgcagatg gaatactcgc cctttgcgct ggagatcgag 420
agcccgcagt accggctgct cgagacggcg cgcgagctcg gcgtcgcggt cgtggcgtac 480

tcgccgctca gccgggggtt cttgacgggg gctattacct cgccggatga tttcgaggag 540
ggcgatttcc gccggatgtc gccgcggttt agcagtcttc acaggcggta g 591

<210> 1690
<211> 384
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (159),(161),(207),(294),(306),(311)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1690
tcgatgaaac ttcttttatc acttttgatt tgcatcgcag cagtcttcct ctcataccag 60
ttcgcctcta attcagctca cctcgaaagt ctaagcgctt cgctcagaga acaactccca 120
atcgccttat cgcagtacct gcgaaggaac aacatcatng ncaccttctt cgtccctccc 180
ctcacacata ccgagccgat catcctnccc ctcaccgata tggccgtccc ccgcgcaatc 240
cgtcaggtct tcctggccat cgaaaaagcc gaaggcgccg gcgcgcgcgt tcgncgttcc 300
aatcgnaccc ncaaactgcg caactttaac ccctttctca tgctggaaca ccttaccatt 360
cgccccggcg cagggtttcc ctga 384

<210> 1691
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1691
tattgcagag agttctggtc gaagggcatc agactcgtag tcgcatgcgc agaaatgtac 60
gaggcttttg tttcccaagt tcccggactg cttgcgcaac taaagtatta cccgtcccaa 120
gctccatcca cggattcctt gggttccagg attccccttt gctccaactc cgtggccctg 180
ttgttcagaa ccggtgccaa ccgttacctt gaacgaccgc aaactccttc ttaa 234

<210> 1692
<211> 1518
<212> DNA
<213> A.fumigatus

<400> 1692
tcccatttca cctgctcata ctcgaacttt gctagctgcg gtacaattat gccgccagct 60
ttcgagtttc gaggcaacga ccgacggtcg cacaataaca ataatccaag acatgagttc 120
actttccgat atgcacgatc cgggacgggc gaacgaacgc tcttgactac caaaagagaa 180
accactccag agcccatctt gggcgctaca gcaggagatg aaaaaccggc catgaaattt 240
gcgcccattt caagcctcag tgacagcgag gaagccgaga tggacatgtc cgatgatgat 300
aaggacgacg aagcttcaca tccgcgtaag aagcgtgcgc taggaacaaa tactgcggct 360
gctcctactc cagcaccagt cacagctcca aaatggtcca acccagatcc ttatactgtc 420
ctacccccgc ctgatgagac gttggggaag agggttgatg tcgtcaagct gattcgcaag 480
gcgcggatca cagagaatgc taagcagcca gcacctgcgg atgcagtgac gaccaacgag 540
gactttatat catttagtgg cctgatcgac gaagaagaag aagctaggat gaaggtgtca 600
gacaatgctc cttcgggacc gaaacgtctg caaggaagag actctgctcc cggaagccgg 660
aagagaacgc atgatgatga gataaagggc tattccaaga agactggacg acccatggtc 720
aggttttacg atgatggctc gattattgac gagtggagag cgcgctcgca agaggacgca 780
actccgtgga tgttgctcat ggaaccttcc ttgcacctgg gttctcgact gcacaacgaa 840
attctgagtt tctaccactg ggttaaaccg atgcagtatg agcagattgt ccgagcggat 900
ttgattacaa ggctgcaggt agcattccaa agtaggtact atggtgtgca acttcgtccg 960
ttcggctcgt tcgcttcagg cttgtatttg cccactgcgg atatagatct tgttctgctg 1020

tcatcaaatt tcatgcgcaa tggcataaag acttttggtg agcgtaaagg gcagatctac 1080
gctttcgcgg cctttctcaa aaatcttgaa atcgccgttc ccaattcaat agagaccatc 1140
gcgcatgcgc gcgttccgat tctcaagttt gtggacaaga tgaccggctt gcgggttgat 1200
ctgtcgtttg acaatgatag cgggctcatc gccaacaaca catttcaaaa ttggaaatca 1260
gaatatccgg cgatgcccgt gattgtcgcg gtggtcaagc aatttctgct acttcgtggt 1320
cttaatgagg tcccaactgg tggtctggga gggttctcca taacctgcct cgttaccagt 1380
cttcttcagc atctaccaca tggccacaca gcgcctaatc tgggcagcat tctcatggat 1440
tttttcgaat tctatggcaa caactttgac ttcgagaagt cttcaccacg gggctggaag 1500
gatccgagcg ggcttcaa 1518

<210> 1693
<211> 261
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (29),(63),(84),(96),(98),(99),(126)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1693
cccctcccac cattcgcggt tcacttcgnc ccttgttcag gtatcttatc aaagggccca 60
agnatcgtac tcaacaacta catncttact tccatncnnc ccccagtctc tcggaggtcg 120
ttggcncggc ctatctctga gtttcatatt gactcgttcc ttttttcttc tttcattgca 180
tatcggtcac tttgcatgcg aggcttcttc tctccaacgt ctcatctaac cctcctcgct 240
atcaaccaat cttatcgctg a 261

<210> 1694
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1694
gtgatatttc aaagtctgtc aaataataat ttttttttttt ttttttttttt ttttttttttg 60
ttttttaaca tgtcgcgatc cgatactagc agtctgttgg actatccaga ggcagcggga 120
tcaatggggt ttcgcggttc ttctcctagc cctacaaacg agatctcccc ttgcttgcca 180
tcatgccgca gatga 195

<210> 1695
<211> 960
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (26)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1695
tgggaaacac ccctattcat ccgaantaaa gcgacttttg ggaggaaacc ggaacgcaat 60
atcttcggca aggccgagtt ccagaacccc ggtggtagcg tcaaggaccg tgctgcgcta 120
ttcgttgtca aagatgccga agagaaaggt cttttgaaac caggcggcac agtcgttgag 180
ggaacggctg gcaacaccgg tattggtttg gcgcatgtgt gtcgatccaa gggctacaag 240
cttgttatct acatgcccaa cactcagtcg cagggtaaga tcgacctgct gcgtcttcta 300
ggtgccgagg tctatcctgt gcccgctgtt gcatttgaca accctcagaa ttacaaccac 360
caggcgcgca gacatgccga gtcgctggaa aatgccgtat ggacgaacca gttcgacaac 420

accgccaacc gccaagccca cattgagacc actggacccg agatctgggc tcaaactgat 480
ggaaaggtcg atgcgttcac atgtgctacc ggaacaggag gcactcttgc tggtatcaca 540
cggtacctca agaccgccag cgatggccgc gtgaagtgct tccttgccga tcctccaggc 600
agtgttctcc acagctacat ccagagcggc ggcaacctga tcgagcgaag tggaagcagt 660
atcacggagg gcattggaca gggccgtgtc accgacaacc tgaagcccga catcgatctg 720
ctcgacgggt cgctcaccat cagcgacgaa aagtccattg agatggtata ccgctgcatt 780
gatgaggagg gcctgtacat gggcgctagc tccgcgctca acgttgtcgc cgccaaagag 840
gtcgatgagc agctccccaa gggtagcaat gtggtgacca tcctgtgcga tggtgcttac 900
cggtatgctg accggctttt gtccagcact tgggttcaga gcaagggcct caggagatag 960

<210> 1696
<211> 480
<212> DNA
<213> A.fumigatus

<400> 1696
ttaaatagta gcactgtgga tccttccagc cccgtggtga agactagctc tcatccagtt 60
cttgtttccg cgcaaggtgt tgatttcacc attgtgggca gcccatcgca aaggctgtgc 120
acggtcccaa gatgggaatg tattggtaga aaatcgggag tggacgagag cgaagtgcgc 180
ttcgtaatca acattgacga gatcatggta gtactggtac acctgaactg gggccaattg 240
acccttgtag acaatgtttc tgttgctcag ggagcacaga tagaaccaat tagcgagacc 300
aatgacgtga gtggctcgtt tccgaagaac atagagctgg cgctcaaagg tcctctcgtc 360
gaaagactca ggatcggtgt tttctggctt atttccctca ccatatgcgg acttcaagac 420
cacaaatggc tgcatgatga tcggctctct ggacagagca gcaggtccca agatggttga 480

<210> 1697
<211> 780
<212> DNA
<213> A.fumigatus

<400> 1697
catctttctt cactgatagc ccgcaatctg ctttgcaaca tgacgcatcg aggagctgtg 60
ggctctgatg cacgagacgg tgatggtgcc ggtgtcatga ccagtattcc gcacaaattt 120
ttcatcaaga atttcgcccg ggaagtcggc gttgaactac ctccgctggg ccagtatgct 180
gtcggtaact tgtttttcaa gcccgatcag gagtctctta aggagtccac cgccaagctc 240
gaggaaatcg cagaatctct cggtttgcgg gtgctagggt ggcgtgaggt tcctcgcgac 300
tcaaccatct tgggacctgc tgctctgtcc agagagccga tcatcatgca gccatttgtg 360
gtcttgaagt ccgcatatgg tgagggaaat aagccagaaa acaccgatcc tgagtctttc 420
gacgagagga cctttgagcg ccagctctat gttcttcgga aacgagccac tcacgtcatt 480
ggtctcgcta attggttcta tctgtgctcc ctgagcaaca gaaacattgt ctacaagggt 540
caattggccc cagttcaggt gtaccagtac taccatgatc tcgtcaatgt tgattacgaa 600
gcgcacttcg ctctcgtcca ctcccgattt tctaccaata cattcccatc ttgggaccgt 660
gcacagcctt tgcgatgggc tgcccacaat ggtgaaatca acaccttgcg cggaaacaag 720
aactggatga gagctagtct tcaccacggg gctggaagga tccacagtgc tactatttaa 780

<210> 1698
<211> 435
<212> DNA
<213> A.fumigatus

<400> 1698
cttcccgcga acgcatcgcg gggcggggcg ggatccgcct ggcttttcga tcgtggggac 60
gttgcttcgg aagttgaaga tggaggggct gtttactctg cggaacgggg cgagggttac 120
gcgggttgta aaggaggagg ggtgcgtgaa gggggtggag tatgtgactg tcgaggggga 180
gacacaaaac cacacggtcg aagggccagt catcttcgct acgggcgggt ttgcgggcga 240
ttccagcggt atgctggcgc agtatcggcc ggatctggcc gattttccgt cgacgaacga 300

ggcgagggaa ggcacgcagc cgattctcga ggcggtgggt gcctcggtgg tggatatgga 360
gtgcgtgcag gttcatccga cggggttcgt ggaccccaag gatccggcgg cgatggccaa 420
gttcctggcg gctga 435

<210> 1699
<211> 918
<212> DNA
<213> A.fumigatus

<400> 1699
ttggggcacc acgtccccgt ccggaaggtg gaccgcgcca tcaagccagg cggcaatccc 60
atcaagggtt tttgggggat taacggcgcc ggaacaagat tccagcaatg ggaggacaat 120
ggcgatgtct tcttccagga cacgctccgg tccgccggcc aggcattcac acgggcaagt 180
agcgacgagc gcgcccggcg ggagacgctg atttcgacgc tggcgtctcg ttccgcggac 240
gcggtgcact ggctcgttga cgagaagggc gtggacctga gtaaagtcgc gccattgggg 300
ggacatagct tcccgcgaac gcatcgcggg gcggggcggg atccgcctgg cttttcgatc 360
gtggggacgt tgcttcggaa gttgaagatg gaggggctgt ttactctgcg gaacggggcg 420
agggttacgc gggttgtaaa ggaggagggg tgcgtgaagg gggtggagta tgtgactgtc 480
gaggggggaga cacaaaacca cacggtcgaa gggccagtca tcttcgctac gggcgggttt 540
gcgggcgatt ccagcggtat gctggcgcag tatcggccgg atctggccga ttttccgtcg 600
acgaacgagg cgagggaagg cacgcagccg attctcgagg cggtgggtgc ctcggtggtg 660
gatatggagt gcgtgcaggt tcatccgacg gggttcgtgg accccaagga tccggcggcg 720
atggccaagt tcctggcggc tgagatgctt cgcggagagg gtgggattct gctcaatagc 780
gatggaagcc ggttcgtgaa tgagctggag acccgccagc atgtcgttga tgccattcgg 840
cagtcgacct ctccgatgga gacggctacg cgccagtggg atgtgacgct gctccttgat 900
gagttttcac cagccgtg 918

<210> 1700
<211> 255
<212> DNA
<213> A.fumigatus

<400> 1700
ctcttgagac agatgtggat gggtacatac ccgacagttc cgtcgaaaat ccttgccaca 60
ggcgagatgc tcgccgacta catcaaaaac aacccgcagt tgattgggaa ggccgttttg 120
gatcgatatg gtccagaaat ccccttttttg cccaaggtac acaccgtctc gagaaaaaca 180
acctgcatga ccttgactaa tgaatactca gatcctatcc ttcgccaaag ccctcccact 240
tcaaatccac cctga 255

<210> 1701
<211> 441
<212> DNA
<213> A.fumigatus

<400> 1701
ctaatgaata ctcagatcct atccttcgcc aaagccctcc cacttcaaat ccaccctgac 60
aaggccttgg ctgagaagct ccacgcaacc gatccgaaga aattcggcga ccccaaccac 120
aaacccgaaa tagcaattgc actatccaac tttgagctct tcgctggctt caaacccctg 180
aaagacatcg agtctctcat gaaactgaag ccgctcgaac ggtttgtccc gcctcacgac 240
acattcgatg acgagcttct gcggcagatt tgcaaggcgc tgctaagcgc gcccccagtc 300
gccgttgctg aaacgatcaa tgagcttcag agcattcccg agcctcaatt tggtcccaac 360
agcagctata ttccgggtat gctggagaga cttcgcaaac agtattgtct tcaaccaccg 420
gggctggaag gaccagcgct t 441

<210> 1702
<211> 1119

<212> DNA
<213> A.fumigatus

<400> 1702
agacaccaac cacgtccgag tgcgtcccca ttcgcccagc gaatgcagca gtaccagtac 60
ggtcagcagc ctcccgcgtc gaaccacaat ccggtgggcc aaagtccggc gcaaccgcag 120
gcgaccgctc agccgcaagg aaattggcga actaatcaac ctctgaatag gaccgctgcg 180
aactacaacc gtcctacgtg gaatcacaac ggtaggcagt catggaacca gggtccttct 240
cgcgttggcc ccccaagaga gcgagcctat gctgctaacg tacatgtcga accgactgtc 300
gaacatccat ccccttcacc acggtacgat gaaccggaat attcaccata tgttgaatca 360
aacgaacggt atgaatcaaa cgaaccgtac gaccagcacg accagcccga tgatgaggac 420
ccgggatatc aagcattcct ccatcatccg gcgttcgaac gcggagattt ccctgaatct 480
aaggatgaac catgcgcatt tgcagtcgat gttggacctg tggtcacgac ctgcaatgga 540
tgtggggcta cattcccgtc acggaatcgt ctgcataccc atctttcgga atgtccacgc 600
acacaggaac caatccctgt tacccctact actaatgacc caactgctgt ccgtatcatt 660
gaatctactc acaagccaac cgggctcgtt ggaatccgtt cctggcgttg cgctaccgcg 720
aagatcggaa ttaacagcac atcagaatac catgagatat gcctcgatac aggctgctcc 780
tctaccattg gaaatacaga gttcatcgaa gcattaccta gcgtaaccat caccgagctg 840
acggacggca tcacggtttc aggcatcgga tcccgtcatc gatcaaaccg ttctgctatg 900
ctaacactat ggttccctgg attgatgaat gatggtggtt ctgcgaacgc attcgctaag 960
attaccatcc gttgccattt ggtcgatggc ctgaagccta agctacttat cggaaccgat 1020
gtcatctgcg gtgaaggatt catgcttaat tttgaacgtg gcatcgcaac ttttggttcc 1080
tgcagttcga ttaaccttcc caatcatcgc gcaagctaa 1119

<210> 1703
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1703
cccgctggac ggatcaacct tgattggaac cactatatat cctcatactg gttgaccatg 60
agttcccctt catcgaagtc cgcaactaaa caccccctcc aattatcgtc actcgtccca 120
ctcccaaaag gtacctcttt gattcccacc tcgacccctg ccccaccaat tccccaaacg 180
accctcttct attaccttaa tcctcttgaa ttcccaacca tcggaacttc catttctccc 240
aaatttgaat tccccctccc ctcatcaatc ctcaaaaacc tttaa 285

<210> 1704
<211> 501
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (486),(490),(492),(498)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1704
acagacctcc cgaaaaatgc tactctcttt ctctgctcca cagtccccgc ttcctatgcc 60
cagtccgtag ccgcagagct gcaatcgcgc ggccgtgcgg atatccgctt catcgattgc 120
cctgtttctg gaggcgccaa gcgcgccgct gacgggacgc tgtccatcat ggctggtgcg 180
tcggaggagg cgctgaacag cggacgcgag atcctgcaag tcatgtccga tcagaacaag 240
ctgtatctgg tccccggcgg cgtcggggcc gggagcaata tgaagatggt gcaccaggtg 300
ctggcgggaa tccatatcct gggtgccagt gaggcaatgg ggttcgcggc gcagttgggg 360
cttgatgcaa agactaccgc tgagaagatt atcggctctg aggcgtggac gtggatgcac 420
gagaaccggc tgcagcggat ggtggaggag gattggaact cagtgtccag ggggccgggg 480
cctttnctcn tngatatntg a 501

<210> 1705
<211> 396
<212> DNA
<213> A.fumigatus

<400> 1705
acactcaaac gggtcggatt tgcaagtcga agcaatcaca aattcaatcc tacattcaga 60
gtccatacat acaaaggtca tcagataatc acaatgtcca aacctaccat cggcttcgtc 120
ggccctggag ccatgggctt tcgcatggcc accaaccttg tgcgcgaagg ataccccgtc 180
gtcggctgtg acgtcttccc agcctcggtg cagcgcttcc agtctcaggg cggaattcca 240
gcttcgtcgc ttcgcgagtc ggcagagggg aaggactttt acatttgcat ggtcgcctcg 300
gcgccgcagg tgcagtcggt tcttttcggg gacgacggcg ttgtgcagtg tacgttactc 360
cccttacagg catctcaata tgaggaacaa cgctga 396

<210> 1706
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1706
aatacctctt cttcaattca tgttactact ccctcagtcg cttcgcagag tggcctaact 60
atcacccctc ttagatgggt tgctgggcac tcgcaacaag aaggcgaatc caccgcttac 120
acaatccgct tgaccacttc agtcgtccat tcaaaatgga ttgagagaaa ctgtcttcac 180
cacggggctg gaaggagccg cgccatt 207

<210> 1707
<211> 963
<212> DNA
<213> A.fumigatus

<400> 1707
atcatccagc tacaaaatcg cgaggtgtca tgttatgtgg ggatgttata cctattcaga 60
agcgtaatgg aacgaaaggg tttggccagc gtctgggtca tggagaaacg cgggggcttt 120
atctgggttc ttgaggaaat acaggagaat gtcgcctaca tcttctgcga cgactcctgg 180
accatcactg gtacccgtgg ggaaaccgac aagatctggg gccagggcgt ggtgaagctt 240
ggatcacata tcacagacct tctcccccac ttgccgacgg attgcctaaa ggcttcacct 300
agcaaaggta tactaaaact tgccgatata aaatactttg ctgcccgggc ttctgctgag 360
atctgtatcc cggctattgt tggaaaggaa gaagatccgc gctgtctccg agtatccagt 420
ttccctcacg ttgcgggcat gatggtcctg tcttcgtcca cgctaaaggt gattagttct 480
aatccagtgt tttcgtcggc cctcttcggc cacgcacgac cggagggtat gcatgtcaac 540
gacctaatac ctggctttga caccctgctc aacgtgctca gcgaagagga aaatttgccc 600
ttggtggagg gagtggtgat tcctgaaccc agcttccgaa gagcacggac actttccatc 660
ctccgcgacg gtaaggcgaa cgtggcttcc gtgttcctgg aaccgatggg catcactgct 720
gcccatcgtg acgggtcaac aattgccgta gacgttcaat tgcgcgttgt ggaaagcgag 780
acctttttcc gtcaaaacca cagtgaggac atggaaagcc atgacgaatc aagtgattac 840
caagaagatg caatcgccat aaaggaactt gtttatgctt tatgggtcac gtattcgaga 900
aagatccact caatagggcc gtcagcaacc gtcttcacca cggggctgga agggtccgtc 960
cag 963

<210> 1708
<211> 249
<212> DNA
<213> A.fumigatus

<400> 1708

acattccaga tgcgttttca tgcgagaagc tttcaagact atcacttcat tgccttacac 60
cgagtatacc gaggccaaag ccctaaagat ttagatgagt ttcaaagaat atctggcgtt 120
aatcagatcc tctcattcgg tgactgggac tttctaatca tgccagagat atgccagatc 180
ttccgcaaca gcgtcaaacc cacaaatagg ctcactatgg agacaaagat tgccagcttc 240
atcaagtaa 249

<210> 1709
<211> 675
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (616)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1709
aagaccactt gtaccagatg tacgcctctc agccaaatgc aaatagctct ttcctcacat 60
tccaacactt ttgacatggc cacccaccaa gccatcatcc tccctggtat taacttacca 120
ctcaccctcg cctcagtccc aacaccagcc ccccaatccg gccaagtcct catcaaggtc 180
ctcgccagcc ctatcctcgc atactaccgc acaatcctcc ccggcaaacg tccctatccc 240
ctctccctcc ccctcacccc tggtgtatcc ccaatcggcc gcatcgaggc caccggatcc 300
gacacaacag cactcaaacc gggccaacta gtgtacgtcg accttgccgt acgcgcacgc 360
gatgaccctc tcaaggaaca cggcaccatc gtccttcagg gcctcttcgt aggtataacc 420
cccgaagcgc gcatcctatc cgaaaacgac tggcggcatg gctcgtgggc ggagaaacag 480
ctcgtcccgc tggagaatgt gcatgttctc gatgaatcgc tgctgtgtgc gcagatgggt 540
tattcaccgg cacggctcac atggattaaa caccctgctt gttccgtacg gcggattaat 600
gtcgggggcc ctgcanccgg ggagacggtg attgtgtgtt ttgcgacggg gcatttcggc 660
ggtgcgggcg attga 675

<210> 1710
<211> 252
<212> DNA
<213> A.fumigatus

<400> 1710
cttaccactc accctcgcct cagtcccaac accagccccc caatccggcc aagtcctcat 60
caaggtcctc gccagcccta tcctcgcata ctaccgcaca atcctccccg gcaaacgtcc 120
ctatcccctc tccctccccc tcacccctgg tgtatcccca atcggccgca tcgaggccac 180
cggatccgac acaacagcac tcaaaccggg ccaactagtg tacgtcgacc ttgccgtacg 240
cgcacgcgat ga 252

<210> 1711
<211> 276
<212> DNA
<213> A.fumigatus

<400> 1711
acaaggctaa cactgcatct cgctttgctt agtgatgaag atttgaaaga atacgacctt 60
gatcactacg acagtgatga ggtcgatgag gatggagaga agatcaccat gttcggaaac 120
gtcaagtcgc tagcgtacca ccaacccaac gaggaagatc cataccttgt gataccggaa 180
gaagaagagg atgaagagag agaggagttg cagatccttc ccaccgacaa cttgcttctt 240
gcaggtaagg tcgaggatga ggtggcccat ctttga 276

<210> 1712
<211> 285

<212> DNA
<213> A.fumigatus

<400> 1712
ggaaaacact ttacgatgtc ttctatgatc actacgaccg cttgggtgcg gcggggagtc 60
gctgcccaat tccctaccaa atatgagatt gacgaggagg aaatgaaccg gatatccaag 120
ctcgctcgga tgcagctcga agaggcccag ggtgatctgg aggctgccag ggaaggaaag 180
gaccaggacg gcgagaccat ggaggaggat cagaaggagg aagcccaaga cgcgatggag 240
gacgattccg aggaaaagaa gggaaagaca agtttcaatg agtag 285

<210> 1713
<211> 231
<212> DNA
<213> A.fumigatus

<400> 1713
ctttctggga cttttaaacc tttttacatg tctcccctgg aggtccggcc ccgccctgac 60
ccggatggcg tttggggacc atgcagtcgc aatggtccag gtcccagacc ccaaatgtcg 120
ggctccaatg tttcctccgc ccacgaaatt gccgttagcc cggtcatccg tgtgtgcgcc 180
aacaaggaaa tccaagccat tcaaggcaca gagggatggc ggcaagcata a 231

<210> 1714
<211> 909
<212> DNA
<213> A.fumigatus

<400> 1714
gagatacggg cgaaaaacta cgcatcgtgg atccccggcg ccaagcccta tgtcgatcag 60
gcatttgacg acctcgagga gatcaagcgc aagcatggcc aggaattcaa tgagattgtc 120
agtaatgcgt acaaagactt gcgcgaagcc acaaagaagg gcagtcttga cgtgaacacc 180
gccgttaaga tccgagacat tctacaagaa cacttcaagc gtctgtatga actggccggc 240
gagtctgcaa gtgacatcct tgacaaccat cccgagatca gggaaaaggt cggtggcagc 300
ttggatcagc tcaaggagat gggcaatgcc tatggtccgc aggcgaaaga ggaggtagac 360
agaacgtggc agcaagtgaa ggacatcgtc acgagcggtg ttaatcctga gaccatccag 420
aagattcaga agctggcaca agagaagaga gagaagctcc agaagttcgg tgatgaggca 480
tggcagaagg gtatggaaga gatcaagcca tacctggatc ggaaccccaa ggtcaaggaa 540
cttgtcgaga gaaacagcga tgctttgaga aagggcaact atggggaact ctgggacctg 600
atcaaggaaa gcgcgtcttc cggcaatcta ggaaacctgg agggatacat caacaagacc 660
gttgatcaag ccaagaagag tggtttcaac ctggacagtc tggcggacaa gttcccaggt 720
ggttcagaca ttctctccca actgcagtca ctccaggata ttgcacagaa aaagggtccc 780
gaggcggaga agattctaaa ggataccctc aatgacatcc aggggtctta tcggaaagaa 840
ccaaacaggc cgagaccctt gctgagtctt ttaccacaag gagtcgaaac agccccagta 900
cgtaagaag 909

<210> 1715
<211> 606
<212> DNA
<213> A.fumigatus

<400> 1715
ggttcaaact tcaaaccgac ccacgagact cctcagaata tatatatata tatattgaat 60
acagacaggt gtttaaagat gagcgcaaat ctgtccccga aacaccacca catcgttttc 120
cttcaggccg attattgccc aattcccaac tttcgcttcc cgcctggtca tacttttact 180
acggctgtct atcagcagac ttcactctca gaactccatt cacgtattca tgatgcctca 240
attgttgtgt tctcatatat cccatttgac gcgcacactc tctccccgga ggtgacaccg 300
catctcaaac tcattgccgt cgcagcagtg ggcacggact gtattgatct cgaagcatgc 360

agaaagagag ggatcattgt gagcaggtcc gttggcgcaa atgtggattc agtttccgag 420
catgcaatcg gactgtactt cgcttcccgg cggcgcatac tggatatgca catgttgacg 480
agagcgggcg aatgggcgca caaaaaagga accatcatgt atcaacttct cgacaagcac 540
ggccagcctc ctttgagttg ccaagatgaa gtagttggta ttattggata tggggtttgt 600
tggtga 606

<210> 1716
<211> 606
<212> DNA
<213> A.fumigatus

<400> 1716
ttggtattat tggatatggg gtttgttggt gagtcggtcc aggccccgat ctggattccg 60
tcaattgttg ctctcgaggc tgacaaaaca aatgtaggac aaaggatcgc tcagctcgcg 120
cgcaacctgg gaatgaaagt gctcatctca gctcggaaag atcctgcaac atcatcgtca 180
ctgagcacgg tcgataacat cgagcgagct ccattcgatg cggtcatcag acaaagcacg 240
gtcattttcg tggcagtgcc gcttagcccg tcaacgcgga atctcatatc caacccagag 300
ttgaaaaata tgtcaccgca tacggtcatc gtcaacgtct cccgcggagg aatcgtagac 360
gaagatgcac tactcgaggc tttgaaaaag ggtacaattg ccggcgcggc cacggatgtc 420
ttccgtcaag agcccgctgg attggataac tctccgttac tgtccgatga ggcaaagaat 480
cttaatctca ttgtcactcc tcatctagcg tggctatcga agaaaacctt ggccaactat 540
tcgcagatgg tccagcaggc cattgaagga tggagtgcag gacagccatg caatgtcgtg 600
acatga 606

<210> 1717
<211> 1182
<212> DNA
<213> A.fumigatus

<400> 1717
ccttcttcca gcgacctctt gaaacgtcat tcaacaatcc acgccaagaa tgcgggtcgc 60
caatacctgt ccgatgcgcc tttgccagac cctgcgggcc ccgcgcacct tggcaatgtt 120
aatcaacagc ttcagcagcc ccaccctagg gctgaggaca tatacgaatc ccatatgcat 180
atcgtccttc gctcgtcaga ctcgcgacat gcgcattctt tcgactccag atatccagaa 240
acgtttagcg cgatccatga cactactcag gatgttgagg tcagcagagg ccttattggt 300
ggccccgacc aagtgcaaga ctacagagca tctttggacc ccaacgcata ctcatcgagc 360
aagtcgatta gccaaagcag tccgaactct gactccccat ggccctacgc cacttatgga 420
atgtatggag aaggctgtct agatacggat ttagcctgga tcctcgacat cggttcggtg 480
gactatccca gtcctcagaa agatcatcac ttgggccttg acagcgtcca aattcaagaa 540
tatccgagta ggcattctga gcggtgcctg cctggtgtcg tctccaccgt gggcgacaca 600
gcctcgagac atcgtaatgg tcaggcatgc gattatccgg ctgacgacac ccaaaatgat 660
tggcccgacg aggatcccgt tccaggagca ccaccatcgt ctgagatacc accaactgat 720
attcccagtc aggaatcctg ggtagagcct gacgaggtca ggctcttcca ggatcgtctc 780
aaaaacgtca actggcaatt cctgagaata acaccagacg tgagagctcg tatgttggcc 840
accttggctg atagtgcttc gattgagcat ggacacttgc ctccagatga atcgaagttt 900
cctgtgccag aggtgcttga gtatttcctt tcattctttt tcgaattcgt ccatcctagg 960
ttccctgttc ttcacaaacc gacgttcagt acggccactg cgccaccata cctgctgttg 1020
gcgatcatgc ttctgggctc cagccattct agatcaaacc gaggtaaatt cgttgctgtg 1080
tatctacacc tggctactac ggtgtttatg aggttgcatg ccttgaagcc atcatttgtc 1140
agagtcttca ccatgggact ggaccgagcc gcgcttatgt aa 1182

<210> 1718
<211> 1137
<212> DNA
<213> A.fumigatus

JC542 U.S. PTO
09/417507
10/14/99

<400> 1718
atccttgtcc tcaaccaaag cgtaaccatc gtctcctcac ggatacaaat ctcagaaatg 60
tcgcaggaac atcgcttcgt agaagatggt cgaagaacac aacctcacac ggcgggacta 120
tatgaccgag ccgagattga gcaatttgtt gtaagcgcac cttccgaaag gtcgccaaag 180
agctccaacc attctcctct gtcttcggtc actcagccca gaacgcttca aagccgccca 240
gatatgatga gcctcacttc tatattagga gggtctatgg acggcattca ccagtgttca 300
acgcaaagga gctcactttc tcgaggttct ttcttgcata gttgcgaccg acaacagtgt 360
ccggaaaaca acaaaggacc actgggcatc gagaaagagg ctgaacataa ggagaataat 420
cgaacgtacc acgagtttca caggggaaaa tatatgctgc cgaacgatga agaggagcag 480
gatcgccttg atttcttgca tcatgccctt ttacaggtga ctggccgact gacccatgtc 540
cctcacccca ctgatgcaag agttctcgat cttggctgtg gaacgggtat ctgggcgatt 600
gattttgcag aggcctttcc agactcattt gtcgtgggag tagatctatc ctccattcag 660
ccctccggac atcctcccaa ctgccatttt tacgccccat ttgactttga attcccctgg 720
gcgaagttgg gtgaggagag ttgggacgtg atacgacttc agatgtgcgg cgggagtgtt 780
gtgaattggc caagcctcta ccgtagggtc agtgctcacc tacgccctga tgcttggttc 840
gagcaagtcg atattgactt ccaaccgagg tgtgaaggtc gcgctttgga cggatcggcc 900
ttatataatt ggtgccacaa tctaagacag gctaccagcg atgctgcgcg gccaatctcc 960
caccagtttc acgcgataat cgaccaccta caaaatgctg ggtttaccga tattaagcac 1020
aagcaattcg tattgccctt aaacagatgg cattcagacc tctggatgcg acacattggt 1080
ggctggtatg gaagagcttt atttgacagc attgaacccc tcagcctcgc cccgttc 1137

<210> 1719
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1719
cgagcgcggt accttccagc ccctgtgcgt gaagacgagg tcaactcccg agatttcgtg 60
gaattgctat ctttcgccat gaaggtccct tgcttccttc tattccttgc ggcgactgtg 120
tctgcccaac gtgttgccgt cggtttgccc gccgaaggag agaaattagc tcctggaagt 180
tcgactgtgg tacagattca gagaccggta tgcttctga 219

<210> 1720
<211> 609
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (18)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1720
ctggctacat tggtgaanaa cgaattgcac agcttcagaa aaaaccagca gatgcacatg 60
atgcagcaga tgcaaagaga gcattctgac atggacatga acggacaccg cccacaatcc 120
ccctcgtctg cagaaaatgc gccttcaccc tcgaagcggc ctcgcctcga gaacggtcct 180
atgaacggac aacagttggc gcccaatgga cggggtcaag gacaagccat gccaggtcag 240
ccaaactcgc aagcgttatt gatgcaaaac gggctcaacc cacgggcgat gaatccggcc 300
cagtttgcgg gttttcaaca acaagggcct gctgctcagc aaaaatccat ccaggtatat 360
gctcagaact tagcccttca tcactcacgc tcagcactga ataaccaggg cattccgaat 420
ggtttaatga accccggtgt catgccgaac cagactgatc tggtgcctat gccagacggc 480
cagggtatgt acccaatgaa cggcgactac tatggcacga atggccagat ggcccaggta 540
cgggctggga tgcagacacc tggcggacag cacggtaacc atgctctcca ggactatgag 600
gtgcagttg 609

<210> 1721

<211> 267
<212> DNA
<213> A.fumigatus

<400> 1721
cataccctaa taacataccc taataacata cccgatagcg gttacgcttc gcgctctatc 60
tccctccccg acatatccga taccgatcag cggttatgct gtgcacctta tctccttctc 120
tcctcccccc aatccatgat tctaccgctc tcctaccct ccccctggcg ggacatctct 180
cctatagagg ttaggggggtt agccttctcc tccccccctc tccgagccga gagagaccga 240
gctttttcga tatctcccta cgaatag 267

<210> 1722
<211> 843
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (771)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1722
gggggcaaga agtacttagc caaaatagat aagtcaatca tggcgggctt cactgtgggc 60
gattacctgg cagaaaggct gtcgcagatt ggaattgagc atccatttgt tgttcccggc 120
gactataatc tgatccttct agataagcta caagcccacc caaagttatc ggagattggc 180
tgcgcaaatg agttaaactg ctcccttgca gcggagggct atgccagggc aaatggtgtc 240
gctgcttgcg tcgtgaccta caacgtaggt gccttctctg ccttcaacgg cacaggcagc 300
gcatatgcag agaatctccc gctcatttta atcagcggat ccccaaacac caatgatgcg 360
gcccagtttc atcagttaca ccatactctc ggaacgagtg actttaccta tcagcttcag 420
atggcggaga aaattacgtg ttgtgccgtt gctgtgggca gagcgcagga cgctccgcgt 480
ctgattgatc gcgccattcg gggtgcgctg atcagtaaaa agccggcata tatcgagatt 540
ccgacgaacc tctcaggcgc tccatgtaca cggcctggcc cgatcagcgc ggttgttgat 600
cctatccaga gtgaccgagc gtctttgttg gcagcaattg actgcgccgc ggactatctg 660
tctgggaagg aaaaaccgat tatacttgct ggtccaaaag tacgtaaagc tggtgccgag 720
actgaattac tgtgcctcgc ggaagcaatg ggttgtgcgg ttgtggtgca nccagcagcc 780
aaaggatctt tcccagagga tcacttccag tacgcagggg tcttctgggg ccaagtgagt 840
act 843

<210> 1723
<211> 585
<212> DNA
<213> A.fumigatus

<400> 1723
tccagagggt ctaccggtca aggacgacgt ccaacatacg caccccaagg tccaagagct 60
gcgcgaattg agcacatgga gcgacggtca tctgtgggtg acccccgagc aacacggcaa 120
cctggtcagt tcttcgccat ccaaagtctt ccagagagca ctactgatcc tccccagact 180
gccgtcttca aaaaccagat cgactggatt cccctgtcga ccggcagcat tcgacccact 240
caaggtcgta ccctagccat cgctcaagta tgtggaggat cccaatcgtt caatgccgtc 300
aactcgctcc ggatcctggg gcggtggatg cgcatgtttg tgatcccgaa tcaaagctca 360
ataccaaagg catacacgca cttcccggat gccggtcaac cgggagacta tcatctcatg 420
ccaagcggta accgggatcg cttggttgat tgcatggaag agtttgtaaa gtacacaatc 480
ttgatgcggc ctcaccttga tctctttgcg gaccggtata gtgaacgcga agaaaggcga 540
ctgaaacaag ccgcgctggc ggctaaagcc ggaccggacg tttag 585

<210> 1724

<211> 228
<212> DNA
<213> A.fumigatus

<400> 1724
atcatagaag gtgaagaatg gaagacagct ttcagaacaa agttcagaca ttttaaatac 60
ctggttatgc tatttagatt aaccaatgca ccagcatcgt ttgaaaggtt tattgaggaa 120
gtactacaca aggttctgca ctactttata gtagtctacc tagatgacat cttaatcttt 180
tcaaaaaata aaaatgaaca tgtagaacat attaaggagg ttctataa 228

<210> 1725
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1725
ttcattgggc ttgtaaatta ttatcaacaa ttcatcaaag gatacgtaaa aaccatgaca 60
ctacttttca aactacttaa gaaagggaaa gagtttaagt ggactaaaga atgtaagaca 120
gcatttacta gaattaaaga gaagattata accgcactaa tcctagtgca acacgaccca 180
gacaaggaaa caaccattaa aaccgacgca tctaactaca caattggaat gagaataaca 240
taa 243

<210> 1726
<211> 327
<212> DNA
<213> A.fumigatus

<400> 1726
gcgctcttgg tgtgcgtgac gagatcacca ataacctcga cagcgatttc gttctccagg 60
gacaagggtg tggtggcggt aatgtcgtcc caagcatcct cgtcatcgag atcaacatcc 120
tcgataccgc catcctctcc aacaggctcg tcatcatcgt cggcactggc gaccttgacc 180
ttgcggccag cgataatcac ctcttggcca acaagatcct tggcagcctc accaagagat 240
acatccaggt cagtctcgtc ctgctcaatg caagcgaaaa ggcccttgac cacaccatcg 300
aggaagggag cgaagtgctc tccataa 327

<210> 1727
<211> 768
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (623),(632)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1727
ctcctgcagg agtttgctac cgtcaaggac agtgaggaag aattggacct gcgcgctagt 60
gtcaccgacg caatgggtga aatgtcggct gctgctggtg cagagcgtta ccaaccctac 120
gtcgagcccc tcatgcgcgc caccgaggag gcacttcacc tcgaccactc ccgtctcaag 180
gagagcacct acatcttctg gggagccatg tccaaggttt atggagagca cttcgctccc 240
ttcctcgatg gtgtggtcaa gggccttttc gcttgcattg agcaggacga gactgacctg 300
gatgtatctc ttggtgaggc tgccaaggat cttgttggcc aagaggtgat tatcgctggc 360
cgcaaggtca aggtcgccag tgccgacgat gatgacgagc ctgttggaga ggatggcggt 420
atcgaggatg ttgatctcga tgacgaggat gcttgggacg acattaccgc caccacaccc 480
ttgtccctgg agaacgaaat cgctgtcgag gttattggtg atctcgtcac gcacaccaag 540
agcgcctacc tgccttactt tgagaagacc attgagcagg tcctgcctct tgctgagcac 600

ccttaccaag gtgttcgtcg cancaccatt ancactctgc accgctcgta cgcgatgctc 660
ttcgctattg ccgaaaatac cggtcagatg gctaaatgga agcccggtct acctttggag 720
gtccagcccg cccaggaagg tccagaagtt tgggtgaaat cccgatga 768

<210> 1728
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1728
tatcatgatc ttcgacagag acagaccctt cagatgtatc gagtccctca gaaaatcacc 60
gaggctagct catgcagcac ctcgcaagaa cgttgcaagc aatacatcat cctcgccgat 120
ccaacccgtt tcaaacccgt ttttcaattt tattcgccgc tcccttcgcg tctccaaaca 180
accccgccaa ataagcaatt cgattga 207

<210> 1729
<211> 420
<212> DNA
<213> A.fumigatus

<400> 1729
aaaaaaagca ttggaggctg ggctctcccg ttctgggacc tcaaagcgtt cattacagat 60
caaattcctg gtctcgcagg tccagaatcc gtccatccaa ccagtgcagc cctcgccttc 120
cagctagcca acctctatgg tctcctcagt atcctaggca tcggcgtctg ctactcgact 180
accgagccca gggtgctgcg taactacctc tatgctctgg ccatcgctga tgtgggccac 240
atctatgtga cgtatcgttg catgggccat gacagatttg tcgacgttat caactggaat 300
gttttgacct ggggaaacat tgggatcacc ggctttctga tgatcaatcg aattgcttat 360
ttggcggggt tgtttggaga cgcgaaggga gcggcgaata aaattgaaaa acgggtttga 420

<210> 1730
<211> 444
<212> DNA
<213> A.fumigatus

<400> 1730
gaacatagaa aacaagcaat gtcgaccctt cctccaaacc cactggcctg cttctggcag 60
aacaatcccc acaaactaca cgaccatcgc tccaccgaag atctcccgac gcacagcgat 120
gtcgcgatca tcggcgctgg gtacgcgggt gtgagcacgg cctggcattt actgcacaag 180
caccccaata tcaactcaat cacgattcta gaggcaagag gtgcgtgttc tggcgccacc 240
ggtcgcaatg gaggccatct gcgcccagac ctgtacggac atatccccac gtacattgac 300
cgcgctgggc ccgaagcagc agcggagatt gccgagtttg agattgcgca tatccaagca 360
atcaagaaac ttgtggagag cgagcaaatc gactgtgatt tcagacttgt cttcaccaca 420
gaggggtcga aggatccgcg ctaa 444

<210> 1731
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1731
cgacaggaat tgcaaatgca tcgtcttcat tggaagaata tggcaagcta tctacctctc 60
cccaatctca aagctaaacc atcaccgggt gagctggagc agggagataa gacgttggtt 120
aaatatcgcc aactggcctg gccaccggat cacatcaatc ccaaggtcct catcttactt 180
ccgaattga 189

<210> 1732

<211> 567
<212> DNA
<213> A.fumigatus

<400> 1732
gataatcaat gcgcgggatc gtcgactcct gtggtagaaa acgctgcaga ggtacagatt 60
gacacactaa ccggtgactg gacgcctctg cgtgccgaca tcaagatgga cgtcggacgc 120
accatcaatc catctatcga ttacgggcag atcgagggcg ctttcatcca aggccagggc 180
ctctttacca ccgaagagag tctttggcat cgtgcctcgg gtcagatctt caccaagggc 240
cccgggaatt acaagatccc tggctttagg gacattcctc aggtcttcaa cgtcagtctt 300
ctaaaggacg tcgagtggga gaacctccgc accatccagc gatcgcgggg cgtcggtgaa 360
ccaccgctgt tcatgggcag cgctgtcttt tttgccatcc gggatgctct caaagctgcg 420
cgtaagcagt ggaatgtcac tgaagtgctt agcttgcaga gcccggctac gcccgagcgc 480
attcgggtaa gctgtgcgga tcccatcatt gagagagtga gggtcacgcc tcgagaggga 540
gagaagagtt tctttgttgc gatttga 567

<210> 1733
<211> 192
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (13),(89),(157),(158)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1733
tggtacctcg atnaaccctc cggcgttcga caggtggtga ttggaccggg ggtctccttc 60
ccttcgcggg ggtttcggtt ctcaacccna aacaaaattg gggctcggac gattcccatt 120
aacgcgcatg aattccccta tgaggattat gaccccnnac tatatggtct ctgtgcggaa 180
acctcctcca ac 192

<210> 1734
<211> 189
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (72)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1734
atgcttctcc aggccccagc tcctcggtat gaggcttcca caagcactgt ggtggcttcc 60
gtgccgttcc cngtgagcag cactcaccat gaggatgaga aactggggtt tgccggcgag 120
agacaatacg ggtctgcgct caaggtggac ggcgctgcgg acctgcgagg aagtagctat 180
gtcgagtaa 189

<210> 1735
<211> 303
<212> DNA
<213> A.fumigatus

<400> 1735
ttagctctta tgttgcctcg cttggaattt ccagcgatat tgacagcata cattctgacc 60
aacatgctcc tcggatatga aaaattgagc tccaaggtct tcttccttga cagtttcatg 120

atcgactata gtaagggtac cgatgcctgc caaaacaagg ttcttcgcga tttcatttgc 180
caatgctttg aacgtaatca gaaggatatt tgcggaccga atcctgaaac gaagggtatt 240
cagaatcagc tcccaaacgc gcatggctgg gaattcaaag tactcacttc tcttgggcct 300
tga 303

<210> 1736
<211> 408
<212> DNA
<213> A.fumigatus

<400> 1736
gtgcatattt cccaacgacg gagagccccg gtttatgtgt gtctgacatg ctatgatcac 60
cagatgagat tgctctctat gatcgtcaaa tccgtctttg ggggttcaag gcccaagaga 120
agtgagtact ttgaattccc agccatgcgc gtttgggagc tgattctgaa tacccttcgt 180
ttcaggattc ggtccgcaaa tatccttctg attacgttca aagcattggc aaatgaaatc 240
gcgaagaacc ttgttttggc aggcatcggt acccttacta tagtcgatca tgaaactgtc 300
aaggaagaag accttggagc tcaatttttc atatccgagg agcatgttgg tcagaatgta 360
tgctgtcaat atcgctggaa attccaagcg aggcaacata agagctaa 408

<210> 1737
<211> 360
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (125),(202)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1737
ctgccgctcg agtgggccgc gctcacagcg aagccgaaca ataatctgcg gggtgcaaac 60
ctacccccga cccacatcag agtgtcaccg tcaatgctga aggcgcgaaa tggacgcaag 120
ggcancgatg cgtggacttc ctaccagggc aaggtctaca atatcactcc gtacctccct 180
ttccatcccg ggggcaaggg anagctcctt cggggtgcag gcaaagactc cgggaaactg 240
ttcatggaga ttcacccatg ggtgaactgg gatgcgatcc tgggggagtg tctagtaggc 300
attctcgtat cggaaaacga agcgaaagcc aacgagagca gtctcgatac gatggactga 360

<210> 1738
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1738
tggctgacgt atgggtttat tctgttctct aggtgggatg aagggctttt ggatatgtgt 60
gtgggagaga agcggacact gacgatcccg cctgagtatg ggtatggcga gcgcgggatt 120
gggcccatcc ctggcggcgc gacgttgatt tttgagacgg agttggtgca gattgaaggg 180
gttaataatg atgagctgta g 201

<210> 1739
<211> 273
<212> DNA
<213> A.fumigatus

<400> 1739
gcttctcttt ctcttggcct cgctggccga tcgaacggac atgctaatca aagagatgta 60
gccgacaagc tcaccgaagt gatctccagc gcatcccaat cattctctga acgcttcaac 120

aaagtccttc caccacagtc tcccttccag actgcagagt actctgagtt ctccaaggca 180
atgctgtcga acctagttgg cggtattggc tttttccatg gagatgatat tgttgaccgc 240
tctgcagcat ccagaagttt gaatgaacaa taa 273

<210> 1740
<211> 558
<212> DNA
<213> A.fumigatus

<400> 1740
cggatccttc cagccccgtg gtggacgact ggcttcagac atacttgcga gcagaatgaa 60
ggcatggctg gctatggctg ggacgagtac gatatcagga aaggcggccg gcagacaatc 120
catgacaccg gaaactcctt ggacttgaca atcgacttca ttaaggtccc tggtggacaa 180
catggcggca gctgggctgc cagagtgaga ggtatcccgc gcgaagacgg ttcccccgac 240
cagccgacat cgatcgtctt ctatgctact ttggagggac tgggtaacct gggtgttgcg 300
acggaatcgg gtcctattgg gtaccaaggg gacgtgaaat tgatgggata tacaaccgag 360
cttggggact tctccatcga tgtgacggct ggccctgaaa ccaacgagca tcctgaacat 420
gggcacccgt cctacgagga caagccgctg gatcgcactc tggtctccag ctctaccatt 480
gcgcctgaaa acctctggca ggtgaaacgt aggctcagca tcccgaggaa ttgctctctc 540
atatggaatt ggcgctga 558

<210> 1741
<211> 375
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (33)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1741
ctgcggccat ttcaatgcgc ggatggcctg ctnctgtgga gaagactacg gctgctgcat 60
ctgacctact tcctcttgca tccttcatac tgttcaaacg tacctgcatc cgcatgtgca 120
taccacacca atatggtcca ccttgctaca gtcaagcgcg acagcgaaga tgttgaaccc 180
ctcgttaaac gcgttgattc tatcgagctt gaaaccaccg atgatgacgg tttctactcc 240
actgtatacg gtactcggtt tgcggcggag cagctgcccc agaatgagat gcccgagaag 300
gagatgcccc gtgaggtcgc ttaccgcatg atcaaggacg agctgagttt ggacggaaat 360
cctatgctca agtag 375

<210> 1742
<211> 399
<212> DNA
<213> A.fumigatus

<400> 1742
tttgagcagg aagaggaagc cgagaagctc atgaccgact ctttcagcaa gaactttatc 60
gattacgaag aatatcccca gtcggccgag atccagaacc ggtgtgtcag catgattgct 120
cggctgttca atgcccctat caacagcgac gacgagcacc ccgtcggcac ctcgaccatt 180
ggctcgtccg aggccatcat gctgggcacg ctggccatga agcgacggtg gcagaacaag 240
cgcaaggccg agggcaaaga caccacccgc cctaacatca ttatgaacag cgccgtgcag 300
gtctgctggg agaaagccgc gcgatactct gatgtgcagg agctctacga ttcggctaat 360
aagctgacga atctggaaat tatcgcgctc ccaaagagt 399

<210> 1743
<211> 222

<212> DNA
<213> A.fumigatus

<400> 1743
aaggtgatat cttccagttg tatgactaga agtaatagga atgaagatat ttttcagcca 60
gtgaaggcct atctcattag tagtctatct attaggacta actttaatcc tgctattgtg 120
tgggagctct atatctttat accagccctc tatatggacc tttcctttga agataatgca 180
tggaggaagc gcctagccgg tagaattgat acatttaatt ga 222

<210> 1744
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1744
actactaatg agataggcct tcactggctg aaaaatatct tcattcctat tacttctagt 60
catacaactg gaagatatca ccttctaatt cttaacagcc atggcagcta tcttacacct 120
caatttaatc agctctgcag cgaaaacaac gtgattccta tctacatgcc tgctcattct 180
tcttataagc tttaa 195

<210> 1745
<211> 342
<212> DNA
<213> A.fumigatus

<400> 1745
attaaccctc tctccataag gggcaaaatg catggtttac atgattttga caccttgcaa 60
acaattcact ctgctgcttt tagacattac aacttcaaca tgatttcttt cagacagtgt 120
cttgccatag cggccctgcc gttagctcat acggcattgg cattgaacga tatatcctct 180
cgggctcagt ccgcaaccaa tctctgcgga gacaatgatt acatcattct cgagagttca 240
ccatggattg tgtacaatat gttgtacaat gccgcccaga tggttggcac gcaaggcacg 300
aattgtcttc actcacgaag cagccaggac cgcacattaa tg 342

<210> 1746
<211> 393
<212> DNA
<213> A.fumigatus

<400> 1746
aaaccttgga ctctcgctat tgaacaaagc ctggcacaat catcagtccg tcctttgatt 60
catctgctgg cagaagatat caacagagtc aacatgacta tcagctacga ctacccgtca 120
cgggttcctg ccaccacttc aatggcgacc ctcgaagaca gattcgaagt catcaaggag 180
gtcggtgatg gaagctttgg cagtgtcgca gttgctcgtg tacggacagc cggctccaat 240
gttgccagga gaggtactat ggtaaggaac ccacttgcgg acgagatcag cccctcgggg 300
catggaccga cccgtgctga tattatgcca ggttgcaatc aagactatga aaaagacctt 360
cgactctttg gccccttgct tagagctgcg tga 393

<210> 1747
<211> 327
<212> DNA
<213> A.fumigatus

<400> 1747
ggaacccact tgcggacgag atcagcccct cggggcatgg accgacccgt gctgatatta 60
tgccaggttg caatcaagac tatgaaaaag accttcgact ctttggcccc ttgcttagag 120
ctgcgtgagg tcattttcct acggactcta cccgcccatc cccaccttgt tccagccctc 180

gacatcttcc ttgatccact ctcccgaaaa ctccatttct gcctggaata tatggatggc 240
aacctctacc acctaatgaa attccgagac cataaatact tggaaggcaa acccgttgaa 300
aagtatcctt ccctttttaac cccccaa 327

<210> 1748
<211> 390
<212> DNA
<213> A.fumigatus

<400> 1748
gaattaatcg cggatccgcc gaccctcgtg gtgaagacac agccgccgac gcccttccca 60
cctccccgcc ctcaccgcgt gcactctcca agccacgctg cacagcccct agaaaccgat 120
tttcaaacac acggtaccga tcctcgcgcg tctcgtacat ctccccttcc tcatcccgag 180
gctgcccaaa cagattcaaa tgcacaaaag gcgccgtcgc ctgtggaacc atatgctgcg 240
ccgcatgaca cagcgggaac tcccaccccg acacccctgg cgcactatcc tcgtcagaag 300
aatcatccat tcgctcatcc ggccgcccga tccccgcctg caggaacacc gccaacgcgg 360
ccagcacctt caccatcggc tggcccttag 390

<210> 1749
<211> 921
<212> DNA
<213> A.fumigatus

<400> 1749
gccgtcacag ccatcaccct caaccaacaa tccctgcaca tcaccgcccc atcatcagac 60
gcccaattca cccaccacgt ctctctgctt tcttccaaat ccgacaccca gcgccgcgac 120
tcactcgcgc acctgacgac ctcactcgtc tcaaggccag tagactcccc cctcccccag 180
cccgtaagcg tcctcctgcc cactctcctc cccctgatcc tagacgcaag ctccagcgtc 240
cgcacccagc ttctcaagct cctgcgtgcg ctgccagcca atgacatcca ggatcacgtc 300
ccccagctcc tgccctacat ccgtgcaggc atgacccacc tggcagccga catccgcgtc 360
tcggccgtcg aggtgctgtc ctggctggtg gacgtcgcag gcgccgaggt cgtctcctgc 420
gccggagggt ggatcaagac gctgaactgc ttcctgtctg tgctgggctg gcacacggag 480
gagtcgtcca agtggtcggg gaatcgggct tcgttcggca agtcgggcgc taagggccag 540
ccgatggtga aggtgctggc cgcgttggcg gtgttcctgc aggcggggat cgggcggccg 600
gatgagcgaa tggatgattc ttctgacgag gatagtgcgc caggggtgtc ggggtgggag 660
ttcccgctgt gtcatgcggc gcagcatatg gttccacagg cgacggcgcc ttttgtgcat 720
ttgaatctgt ttgggcagcc tcgggatgag gaaggggaga tgtacgagac gcgcgaggat 780
cggtaccgtg tgtttgaaaa tcggtttcta ggggctgtgc agcgtggctt ggagagtgca 840
cgcggtgagg gcggggaggt gggaagggcg tcggcggctg tgtcttcacc acgagggtcg 900
gcggatccgc gattaattct a 921

<210> 1750
<211> 294
<212> DNA
<213> A.fumigatus

<400> 1750
caaagacttc tcgcaaccgt cgtcgactct cttgcccttg aatgccatac gcggcgattt 60
tgcttgatcc ccaatggtaa agatgtccac caaggcttcc gcgaagtgac tttcagggac 120
ctatgttgcg ccgtgaatag gatgtcctgg tggatggaga agcatgttgc cagctcggtc 180
aagggagcaa caatcgccta tttggggagc aacgatatcc gctacattat cctgatgctt 240
gcttcacaca aaacaggctg cacggtcagt cttcattcac tggagatgga gtga 294

<210> 1751
<211> 492
<212> DNA

<213> A.fumigatus

<400> 1751
gtccttgatg agagctccgc agcagccgct ggctctcaca tggactttta cgtcgcgaag 60
ggactcatga agaaggtgac ggtcgggggg ctggacctac cgacggtgaa gaccctccag 120
gagtatgggg atgttgtgtc cggccggaaa gaggatccgt tcggccgcaa gtcgtttggc 180
cattggaaat tgacggaagt tctgccggag tacgcggttt atgtcggaca ggtgacgccg 240
gtcattcatt tcacgatggg aggggtggtg atcgacgagc ggagcagggt catcggcaca 300
gacgggaccc cgatagaagg cctctgggct gcaggggagg tgactggagg tgtccacggc 360
cagaaccgtc tgggagggtc gtctcttctg gagtgtgtgg tgtttggacg tatagcaggg 420
actgaggcgg cagcatggca caaggaacac tacccagaag ctcctccctc gagtgatgta 480
acaaggagct ga 492

<210> 1752
<211> 387
<212> DNA
<213> A.fumigatus

<400> 1752
atctcctacg ccagcatcat atataatctg gcaatcgttc cctaccccgc catgttttcc 60
gtcattgtcc ccggccgggc ctgcctcaca gacattgtcg cggtagatgc acagcccaac 120
gggcaggcca cgaaattcgc cttcactttc cccctcaacc ctcccttcac agaaatcgtc 180
gtattcttct tgccgggcac ggtcctcccg caagacaccg ccgcagcaat ctacatccaa 240
ttacccgaat ccacccccttc acccaatggg ccaccgttcc ggttcattgg cgcattagcc 300
aacgagaaac cttccgcagt cttcaaagtc caaaggcggg tcctcaccaa caccgccccg 360
ccgctcagaa accgaagagc aagatga 387

<210> 1753
<211> 747
<212> DNA
<213> A.fumigatus

<400> 1753
tgctgtgctc ggtacatctt caattcggtg gtggaaaagt tctactggcc ggaggattgc 60
tggtcggttg actttacaga tcgaacagtc acactcgtta cccttcctaa tgcgacagcc 120
gaccagcgga gccaactggt cgcagaaacc ttccgggaag tagtcaagag gggacccttt 180
gacatattga aaggatggcg caacgagctt taccctgttt acggcccagg cggagagttc 240
ctgttggaaa tggaacgaag cgcaagtcca ctcttcggca tcgtttcata tggtgttcac 300
tgcacttgct acgttgaaga cgagcatgga ctacgcatct gggtcccgag gcggtcccgg 360
acgaagcaaa cgtaccctgg aatgctggac aactccgtgg cgggcggaat gagcaccaaa 420
gagaatccgt ttgagtgttt ggtccgcgag gcgatggaag aggcgtctct tcccgaggat 480
gtggtcaggc aaaacgcccg ctccgttgga tgtgtcacgt atgtctatgt tcgaggagcg 540
cgggctggag gcgaaaccga cctgctgcag cctgaggttg aatacgttta cgatatcaag 600
ctcaacgctg acgttattcc gagaccctgc gattcagagg tcgaggagtt caacctatac 660
actatcgagg agaccaagaa ggcactggca aatggcgaat tcaagcccaa tcttcaccac 720
ggggctggac gatccgcgca tgcatta 747

<210> 1754
<211> 309
<212> DNA
<213> A.fumigatus

<400> 1754
attattttaa gcgcggatgc tggccatccc tctgtggtga agaactatcg tagcggtggc 60
attggcatgg agactctgct tatggagtat gcagcttcaa ccatgatgct catcaacatg 120
ttggtggatg cgccggaaaa tgacctacaa ttgcgatgcc acatccgggc ccacttcatc 180

tcctgtggca ccaaccgtct cttgacgaag atggaaggct tccaatacga agtgattgat 240
aagcagatcg agcggtccag agaaaatgag gccattgact acgaggatct ccttcagcga 300
gagcagtag 309

<210> 1755
<211> 1503
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1177),(1252)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1755
ttgataagca gatcgagcgg tccagagaaa atgaggccat tgactacgag gatctccttc 60
agcgagagca gtagcagtat gaaggatagc atcgagggcg aggtgaagga catgagcgat 120
cccctgcaaa tcactgatgc cattctaacc agactcaatg ggactcgtgc ctatgattac 180
ttcctttccg ctatgcagca catgcttctc atacgcgaga actcggggga ggacggcctt 240
cgaatgttcc agcttgtcga tgccatgctc agctacgttg ccatggaccg gagactacct 300
gatctggatt ttcggcaagg gttaactttt acagtacaaa gtctcctgga caggctccat 360
actgatgcag aggcaaggcg agcatatgac gagtcccttg aggcgcggca gatcgcggag 420
gccgcaattg cggaacggga cgagatgaag gcgcaagtgg agatgggggc ggatggtctc 480
gtgaagaagc tgcagaagca gatcgatgaa caaacgagca tcattgagct tcagactagg 540
cagaacgacg cactcaaggc ggagcttgcc gatgtccagc ggctgcgtgc tcaggagctg 600
cagcggaatg aactggaaac cagagagctc tatctgatgc tccgggacgc tcaggatatc 660
gctgcatcga atgccaagaa gaataatctg gccgagaccg atccatcgca catgaagggt 720
atcctggaac gggatagaat gttggagcgg ttggagaaac agcttgagcg gacgaagacg 780
caattcaagc tggagggcaa agtttggggc caacatggac cttctgatcg actgcgcgag 840
ctacgggagc agatggacgg cgaacctgac cctgaggact ttcaggaaca agctcgtcga 900
aacttggaaa ctagtgctct gggttctgtt catcgcaaaa gaagccatgt tccggagatg 960
gatgttgcca acggtcaaga gaggccatca caccaggatg ggccacttct cgtcaacttt 1020
ggaagacccc gaatggatcc ggagcaagcg tctgatttgc tgggggagat tgcttctaaa 1080
gttccaaaga ttgacgctga agatgccgaa accgacgagt ttaatgctca accaactcag 1140
cttgagactg aagaagctcg ggtcggtcag gttgaanaag tcaagcccga ggatgagact 1200
gaaaagcccg aagagaaacc tgtatccgtg cctgcacctc cccctcctcc cncctccccc 1260
accccgccac ctcctccagg tggtgcggta ggcattccgc cgcctccacc acctccacca 1320
cctccgccgc cgccgccggg tgcccaaggt ttggggagtt ccgcctccgg cggctcctcc 1380
acccccctcct ggctttgctg gaaggattgc ctccaccccc ctccggcccc cgccaggttc 1440
ggtttggaaa aacccctacc accttccgcc ccccctggtg tttggcggaa ggttggcgaa 1500
ttc 1503

<210> 1756
<211> 468
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (204),(279)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1756
gggtttttcc aaaccgaacc tggcgggggc cggagggggg tggaggcaat ccttccagca 60
aagccaggag ggggtggagg agccgccgga ggcggaactc cccaaacctt gggcacccgg 120
cggcggcggc ggaggtggtg gaggtggtgg aggcggcgga atgcctaccg caccacctgg 180

aggaggtggc ggggtggggg aggngggagg agggggaggt gcaggcacgg atacaggttt 240
ctcttcgggc ttttcagtct catcctcggg cttgacttnt tcaacctgac cgacccgagc 300
ttcttcagtc tcaagctgag ttggttgagc attaaactcg tcggtttcgg catcttcagc 360
gtcaatcttt ggaactttag aagcaatctc ccccagcaaa tcagacgctt gctccggatc 420
cattcggggt cttccaaagt tgacgagaag tggcccatcc tggtgtga 468

<210> 1757
<211> 339
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (254),(329)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1757
gggaattcgc caaccttccg ccaaacacca gggggggcgg aaggtggtag gggtttttcc 60
aaaccgaacc tggcgggggc cggaggggggg tggaggcaat ccttccagca aagccaggag 120
ggggtggagg agccgccgga ggcggaactc cccaaacctt gggcacccgg cggcggcggc 180
ggaggtggtg gaggtggtgg aggcggcgga atgcctaccg caccacctgg aggaggtggc 240
ggggtggggg aggngggagg agggggaggt gcaggcacgg atacaggttt ctcttcgggc 300
ttttcagtct catcctcggg cttgacttnt tcaacctga 339

<210> 1758
<211> 273
<212> DNA
<213> A.fumigatus

<400> 1758
caccggcgac ggtatacttt ctcgcactca gattcaagga ccaagctgac ggaatatgca 60
gattgcgtgt ccttcaagcc caacagcacc aacatcctcg tacagaatct acactgcaac 120
ggctctcacg gcatctccgt tggctctctc ggtcagtaca agggcgaggt tgacattgtg 180
cagaatgtcc tcgtctacaa catctccatg tacaatgcat cggtaggagt ctcacgcctt 240
cctgagtttc tactagctaa cagcttcttc tag 273

<210> 1759
<211> 228
<212> DNA
<213> A.fumigatus

<400> 1759
gatggtgctc gtatcaaggt ctggcccggt gtctcgtccg ccatgtctga ggacctgcag 60
ggcggaggtg gccttgggtc ggtgaagaac gtcacctaca accagatgta catcgagaac 120
gtcgactggg ctattgaggt gacccagtgc tacgggcaga agaacctgac tctgtgcaat 180
gaataccccg tacgtccctt ctttctaatc cataatgatc attactga 228

<210> 1760
<211> 300
<212> DNA
<213> A.fumigatus

<400> 1760
tggagtcatg cttccgatgg aatgagctgg caaccaataa tcaagtccta ttatcagaca 60
ctacctcggt ttaaagcagt aagtgcatat tctatcccag acgagcacct atgcgcagtt 120
aacatccaga aggctcttgt cgacctagta aacgcggtta gtttgtcgca taccctctct 180

aggcgcagga cttacattgg tgcagacgaa gttatccgtt cccttgggac tcttcacgtc 240
gatgttctca gcgtagatgt cagagcaaac ctaagggtat tagaaccgct gcttctgtaa 300

<210> 1761
<211> 546
<212> DNA
<213> A.fumigatus

<400> 1761
accgaaactc ccgacggtat ggcccggggt ttccgcggca aaccatccca attccgttcc 60
agcttcaagg tcaaccgaga agcacgcgag aagcccctcc gggagtttgt cccctacttc 120
cgtacggaag tctcgccaca tgcctgcatt taccttgcgc ccgagcggga cacggtgcgc 180
ctaggagaag cggtgctagc ctatcttggc gaggccgagc gccacgctct tcaacgcatg 240
atcatcgagg ttaatgatta tttattgttt gagacgtatg gattggagag tctagggtgc 300
atgcagagac taaaggaggt ggacttgatt gtctcgcaga caccggtggc ttcgtaccac 360
cggcgtgata ttgttgaagt gattcgagat gcttttcagg agtatgtgag aaatcacaca 420
cagtggcaga tacctcacgt cagggtggtg tctgctttgg gaaagcagat gggcagtttt 480
accatcgatc ctgcagaaat ggataccgta caaccatcgg tccttttcga tggacatgcg 540
ggatga 546

<210> 1762
<211> 675
<212> DNA
<213> A.fumigatus

<400> 1762
tttctcgctg ccatgaaccc caacagtatc catcagggtg accctgaggg agaactgttt 60
ctcaattccg cgagtcgacc gccggcagag tctcctgtgg tagggccgtt acgcatcagc 120
aaacgagata caccttcacc agcatcccag ggctctgcgc cgcttccata ccctgatgac 180
cggccccgac tgggccagat gcgcagctcg tctggttcca ccgggtcaag tccgacggct 240
ggtgaatctg gcagacatgg gtcccctatt tcatccgtta ataacctgtc ctcgatgccg 300
gcaggctcca gcgcaacgag accctcggag tacccggcag ctctccgacc gcgggacggt 360
cgcgagccca agccagctac gttggccgaa agacggggca ataccgctcc caaaccatta 420
ccagaatcgc caggtccaga tgcgccagac agagaagcct tgtttggccg gaaatatcag 480
cgccttccgg cgtcttcggc cctatcgtcg gatggaatgc agcgggagga aggtattgca 540
tatccggatt atcagcagca gtattggccg ccgcctcaac catcgactcc atctgctctc 600
tctacgcggg taggggtgtc gcagagtcta caacctcctg tcttcaccac ggggctggaa 660
ggagcgctgc cacta 675

<210> 1763
<211> 273
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (26)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1763
tggcggcgag ctacaaaggt cctgtntatc tctattctcg cccatgcagc acaattcgct 60
ttcctggtct tcgtcgagaa tccgcacata gagaagacat acaacccgcc accaccccga 120
aagcgaacta tcgagcagga taatgtatct atcacccctc agagatctga ttcgcccagc 180
gcgccagctt ccgtggatga acaagtgccc atgcgccaag ttattcagcg gtccactcca 240
tcggttcaca aactcctggg ctttcggaaa cct 273

<210> 1764
<211> 816
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (751)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1764
cttaccaact caatagtgtg tacggtgcct caaacgcagg acatggtctc tcaactaata 60
tccccctcgg aaccaaagaa cctgtcagat gtcatcgtcc tagctattct cgctgctcat 120
attcttctct tatggcgact tcccgcgggg gtcaaagtgc ccgtttttgc cttcatctac 180
ctcttttggc gcggtgccta caatgctggg atcggatggc tgcttcataa ccagtcgaac 240
caccgaacgc tcgtccgttg ggccgagaag accaagatct tcgtgaatcc ggccactggc 300
caaaatcctc atgctaactt atacaagttg atcaagcgtg aattggagac caagatccca 360
gctgactact cgttcgaaga tgctccaatt gagtacaaca cctggctcgt cttcagacga 420
cttgtcgatc tgatcttgat gtgcgacttc acctcatatt gcctctttgc gatagcctgt 480
agccaacgtc cctttgatga gggcactctg atgactgtct tgcggtggtc cgcaggcatc 540
gtcttagtgc tcttcaacct ttgggtaaaa ttagacgcgc atcgagtggt aaaagactac 600
gcctggtact ggggagactt tttctttctt atcgaccagg aattgacctt tgacggtgtt 660
ttcgaaatgg cgcctcatcc aatgtactcc gttcggttat gctggatact acggtatctc 720
gctaatggcg gcgagctaca aaggtcctgt ntatctctat tctcgcccat gcagcacaat 780
tcgctttcct ggtcttcgtc gagaatccgc acatag 816

<210> 1765
<211> 279
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (173)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1765
tcaaccaccg aaccgccgat accaccgaac cgccgcttcg ccgcgaatat catcgaattc 60
ttggagccat ctaatcaaca cattatttct ttaccactat tattaaaaat gccactatcc 120
aaagagaatc gaatgcagat ggccatatca gcatataaaa aggggcaatt canatcaaaa 180
gcagccgctg ctaaagtctt tggggtgtct aaaaagaccc ttcctgatcg gctttgcgga 240
atcaaaacca cgcgcaaaaa cacgccccta atagcctaa 279

<210> 1766
<211> 984
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (964),(968)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1766
tattcgaatt tctggcaaac agacttctct cgatatcctt gcctcatttg ccgtgacttt 60
ctcagcgggg tcgtttctct cgtcgctcct tctcagcaag cttccttagc aacgctcttt 120

acgtacacga cacttcgttt catcatgttg aactccatca ctgagcttcc tgagggtgtg 180
gcaaaaaact ctgaaatcca cagcctggca atacggatct tggtggtggt gtttaactcg 240
atcgctcttt acaatgccgt tgagctcgtg attctcattt tccttacgtt caatcgctac 300
agtggcctct acttttggag tcttctattg tcgggtgtac ttggggttat tccccacgct 360
gttggtcacc tgctgcagtt cttccgtatt gggcccattg gtctcgccat ctccattgcc 420
actattgggt tttacttcat ggtgcccggc cagtcgtttg tgttgtactc gcgacttcat 480
ttggtggtgc agaatcagaa acttcttcgg cgcgtactgt acattatcat cattgactcc 540
atcgtcctgc tgattccaac gactgttctc aactatctga ccgtctacgt cggcacccag 600
cccgttatca aaggatacaa ttttgtggag cgaatgcaga tttcctggtt caccgcccag 660
gaaatgttca tttctggaat ctatattgtg gagaccatca agttgcttcg gttgcggccg 720
gacaaggcat cgagccgaaa caaaatcatg tatgagttga ttgctatcaa ccttgtaatg 780
gtactcttgg acgtggctct tctggtcttg gagtatcttc gtctctacac actcccagtc 840
acactcaagg gcgccgtcta caatgtcaag ctcaaactcg aatttggcgt actgaagaaa 900
ctggtctctc tcatccatgc tcctcaagtc tcgaatttac aacgacgtcg aatgagtatc 960
ccancttngt cgacccatct cgaa 984

<210> 1767
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1767
tgtgttcact cctttgctga atctcagaga gacaactacc tctttgccgc aaccagcgac 60
tcagctattg ccaaagcgga gggtgtcaag caaccctcca tcgtgctcta caaggacttt 120
gacgaaaaga atgctgtcta cgatggagcg atcgagcagg aagccatcct cagctgggtg 180
aagactgcca gcacccctct tgtgggtgag atcggccccg agacctactc tagctatatt 240
acggtatgtt tttgtcccta a 261

<210> 1768
<211> 444
<212> DNA
<213> A.fumigatus

<400> 1768
gccggtatcc ctctggcata catcttcgct gagaccaagg aggagcgtga tcagtatgca 60
gaggacttca agcccgttgc tgagaagcac aagggagcca tcaacatcgc cacaattgat 120
gccaagatgt tcggtgccca cgccggaaac ctcaaccttg accctcagac attccccgct 180
ttcgctatcc aggatccgga gaagaacgcc aagtaccctt acgaccagtc cagggaattc 240
aatgccaaag aaatcgggaa gttcattcaa gatgttcttg atggcaaggt tgagcccagc 300
atcaagtctg agcctattcc tgaaacccaa gaaggacccg tcacagtcgt ggtggctcac 360
tcctaccagg acattgtcat caataacgac aaggacgttc tcctcgaatt ctacgcccca 420
tggtgtggac actgtaaagc gtga 444

<210> 1769
<211> 537
<212> DNA
<213> A.fumigatus

<400> 1769
gctaacgtgt cttttcatag tctggctccc aagtatgagg agttagcggc tctctatgct 60
ggcgacttca aagataaagt caccattgcc aagattgatg ctactgccaa cgatgttccg 120
gattccatcg ccgggttccc taccatcaaa ctctatcccg ccggtgctaa tgattctccc 180
gttgagtatt ctggctctcg tactgttgag gatctggcga acttcatcaa ggagaacggc 240
aagtacaagg tcgacgctct tgtggctgcc tcagagaagg ttgaagaacg gcctgatgtt 300
accgcttctc cctcagctac atccaccgac gctgaagctc ctgccgctac tggcgacgag 360
aagggcgacc atgatgaatt gtacactacc actttagctg aaggacgtcg atttagtatc 420

caaatttcaa gcttcatgat tatattctac cccagcagat tttactttcc cctcagcgtg 480
tcgagcgggc caattcccaa ggaacctcac tacccggcag acaagatcgc ccactag 537

<210> 1770
<211> 450
<212> DNA
<213> A.fumigatus

<400> 1770
ctaaaatcat ttgctgactc ggattctcga cagcctttca gcgattcgtc ttcactggcc 60
agacaccgca gaatccattc tgggaaacgg ccgtacaagt gtccttatgc aaactgtcag 120
aagacgttca ctcgtcgtac taccttgacc cgtcatcaga atcatcacac gggaactatt 180
gaggaggctg ctgcagagac agaagccaac ctgagacaga acaaagagag ggtaagggca 240
cctggtgatg ggggtttctc cgagcacgcc tctgttcact cgacaccttc ccctgcacac 300
catcctgtgt ccattccgcc tcccggtgac ctaccacctc tgaatatgcc tcgttctgct 360
ggcgactact acatggggaa tggatctatt cctcctcacg ttcggggtga tttctcgcag 420
gccagtcctc gctcctcgcc gacagccaca 450

<210> 1771
<211> 255
<212> DNA
<213> A.fumigatus

<400> 1771
ggcgtagcga cctcgctaga catggtaaga tttccatggg aatacatgcg agaagtaaaa 60
catcaagcca ctgaccacat tctagaacga atccacacgg ggataaggcc gcacgcttgc 120
gattggcccg gctgtgggaa gcaatttatt caacgttcgg ctttgactgt gcactctcgt 180
gttcatactg gagagaagcc ccatatgtgc gagagatgcg gcaaggtatg cagatatact 240
gtgttctata gctaa 255

<210> 1772
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1772
cttatactag gaacttatct agatattact tttattatat ctaagctagc ttactttact 60
aggaatccta gccctaatta ctttattata gtaaagtata tattctacta tctagcaggg 120
atgcttttac ttttattatt ttattctttt atacttagta atcttaatag ttttgttaat 180
actagttag 189

<210> 1773
<211> 765
<212> DNA
<213> A.fumigatus

<400> 1773
ttcttttcca tcttcggtgt agataacccc gcgctcaaca cagtaccctt gatcgtcatc 60
gtggtcgcga cagctatcaa agacgccatc gaagattggc gccgtaccgt cctagacaac 120
gagttgaata attctcccgt ttatcgccta gtagagtgga acaatgtgaa ctcgactgag 180
gacaaagttt ctctctggcg tcgattcaag aaagcgtgta cccgtgccac tatctccaca 240
taccgatgga ttcggcgtct gatgaagaaa aacaaggatg taccgcaaat gtttcaagat 300
gaacggcgcg cctcaatttt gacgactgta accccgcgag cgtctgtgta ttcgcaacgt 360
ggtgaccatg gtatggaaga ggacgcgatt cagatgactc ctgttccatc tccctccgcg 420
gaggctcgcg cagattggcc actacctgct ggtgattcgg atcaattcct tcatccggac 480
aagcgaaata gagacagttt acaagcggtt acatcaccag tgacaccacc gcgaaaaggt 540

ggtagtgtgg tggatccctc gaagcagaca atcggcaagg ctagattcaa gcgcgattat 600
tggaaaaata tccaggttgg ggattttgtt cgactataca acggagaccc tattcctgcc 660
gatattgttg ttctctcgac ttcagatccc gatggtgctt gttacgtgga gaccaaaaat 720
ctaggtcttc accgcgggtc tgaaagggtc cgttctatgg ggaat 765

<210> 1774
<211> 594
<212> DNA
<213> A.fumigatus

<400> 1774
tatttcaagt tattaaacac ccccgaatcc ttcacttata accaattaca aagcccggac 60
cacccaaagg cagcggcaac ccacagcccc cacccaagtt acaactgcgg gaattcccgc 120
accgttccct gtctcagtag caccagcaga accagtagtc gtcgaagcca cactagacga 180
gcttcctgct ttgacactcg tcttcatcgt ctccgtcgca ctggcagtcg tactcggcgc 240
agcggtaatc cgcagactac tcgcctcgct cgacattgtg gtcatcgcgt cccctgtagt 300
cgacgcgctc gccgtcgcag caagcgtagg tgtagacgca gccgcaccag gcccataccc 360
agggagatag ctcggctcgt aggtcgcggt accggtgtac agctccgggc aagcgggatt 420
atcatgcttg ggcggggcgc ggccgccgcc acagtcgggg atgtcgcaga tttcgcctgt 480
gtcggggacg taccagatca tgctggcttc gttccattgg ttgcgggtga gggaggagat 540
acagcctctc aggtcggtgc gggcggagac ggtggaggcg agagttgtcg ctag 594

<210> 1775
<211> 624
<212> DNA
<213> A.fumigatus

<400> 1775
cgtactgctc cgtacttcgc atctgatacc cctcttctac gaaccctctc cagcaaaatg 60
agattcttcc tccttctagc gacaactctc gcctccaccg tctccgcccg caccgacctg 120
agaggctgta tctcctccct cacccgcaac caatggaacg aagccagcat gatctggtac 180
gtccccgaca caggcgaaat ctgcgacatc cccgactgtg gcggcggccg cgccccgccc 240
aagcatgata atcccgcttg cccggagctg tacaccggta ccgcgaccta cgagccgagc 300
tatctccctg ggtatgggcc tggtgcggct gcgtctacac ctacgcttgc tgcgacggcg 360
agcgcgtcga ctacagggga cgcgatgacc acaatgtcga gcgaggcgag tagtctgcgg 420
attaccgctg cgccgagtac gactgccagt gcgacggaga cgatgaagac gagtgtcaaa 480
gcaggaagct cgtctagtgt ggcttcgacg actactggtt ctgctggtgc tactgagaca 540
gggaacggtg cgggaattcc cgcagttgta acttgggtgg gggctgtggg ttgccgctgc 600
ctttgggtgg tccgggcttt gtaa 624

<210> 1776
<211> 402
<212> DNA
<213> A.fumigatus

<400> 1776
cttcaggatg ctccaaatag gttgtacaaa agtttctctt gtagaacggt ctctaccata 60
gctgcttgct ggtgcccgga cgttcctccc cctaccctct ctggtcctcc atggcgggaa 120
cggacaactt gtaacgccct ttctgcccgc ccaggtttct gcaggctttt ttccctctgc 180
ctctcgtgtc tgttctttct tctcctcttt tcctcccccc atttccccgt catagcgcga 240
aacagaggac tcagagaaca gccggcgaga agaaagaacc ccacgcaagg aaagacgaat 300
cagtcgacca actttccggg gccaggtata agcaaaaagc aaaccagatt gctgagattc 360
atcaatactt gcccgttcct cggtgcacca tcagctgatt ag 402

<210> 1777
<211> 213

<212> DNA
<213> A.fumigatus

<400> 1777
ccgccttctt ccgagcgctc attattctca ctttctcgcg gcaaagcgca agacccagaa 60
ccggcacgca gacccatcca ttacctcgtc ctgccctgga accctctgtc cggcgtattt 120
acgcctggtg gtagcttcgt gtcattattt tacttttgtt ttaataatcc tttaatttac 180
ctctttggag ttccttggta tgtttttccc taa 213

<210> 1778
<211> 738
<212> DNA
<213> A.fumigatus

<400> 1778
agactcttca ccatgctgtc ttccatttca ggcgtcatag gccagaaggg acaagccaac 60
tacgctggtg gcaatgcatt ccaagacgcc tttgcagagt atcgccgcgc attggggctg 120
cccgccatca gtattgacct cggacccgta gaagacgtcg gagtcattca cggtaacgaa 180
gacctccaga ataggttcga cggtagcact ctgctcagca tcaatgaggg cctgctgcgc 240
cgaatctttg actactcaat ccttcagcag catccggatc cacagcaccg tctgaacgtc 300
acgagccaag gccagatgat taccagtata ctcgttcccc agcctgaaga cagcgatctg 360
ctcagagatt gccgctttcg aggcttgcga gcccttggag aacatagtcc acgctcacgg 420
cgggacccta ccaaagataa agagatccag agcctcttgt ttctggccca atcccaggat 480
cccgatcgtg cagccctgcg cgccgccgct atcacggtcg tgggtgcgcg gctggcaaag 540
cagcttcgct taacggatgc agtcgacccg gcacgtccct tgtcctacta cgggttagac 600
tctctggcgg ctgtcgagct acggacctgg gtgcgtatga cactggcgat agagctcacc 660
actttggatg tgatgaatgc agccagcctg ggagaattgt gtgagaaggt gattgggaaa 720
atgggatttg gcatgtag 738

<210> 1779
<211> 228
<212> DNA
<213> A.fumigatus

<400> 1779
gtagtcaaag attcggcgca gcaggccctc attgatgctg agcagagtgc taccgtcgaa 60
cctattctgg aggtcttcgt taccgtgaat gactccgacg tcttctacgg gtccgaggtc 120
aatactgatg gcgggcagcc ccaatgcgcg gcgatactct gcaaaggcgt cttggaatgc 180
attgccacca gcgtagttgg cttgtccctt ctggcctatg acgcctga 228

<210> 1780
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (11)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1780
ggggggggggg nagaattaaa ttcttccatg ccgccgttaa gacaagtcac gctgttcgtc 60
tcgtgggccg acagttccaa gaaggagtac aataccctg aatgccgcgg cacctacggc 120
tgcgtcaagt acaagcgccc ggttggatgg aaggacggca gcttcaccgc caagccttac 180
cgatacatcc gcgttgtgga ctaa 204

<210> 1781
<211> 186
<212> DNA
<213> A.fumigatus

<400> 1781
gttagcaact ttatccaatg gcatgatgat cttatatcta aatataccca caaatatgat 60
taccagcgtg caaaatataa ggatccagaa gtcatcaacc aatggtttaa tcttgttaag 120
aataccatag taaaatatgg cattcttaag caggatatct ataactttga tgagactggc 180
ttttaa 186

<210> 1782
<211> 1122
<212> DNA
<213> A.fumigatus

<400> 1782
aacgatggag agtcgtggtc gtcgcttcga tcgactgtgc agacaaggaa gtttacaccc 60
ttcttccttg caagctgtat tgagaaagac ccagaatgcc tgtctgagtg taggcatttg 120
atactgagca tgtggctgtc aagcttggtg gcacgggtat cgatgttaaa attccagcat 180
cgtctcacgg aggcgctatt aaacctggac accatgaacc cgttattgca caacttaccg 240
ttctcaaaag atcggcagaa tgatcggtat tcgatttcgt tggacgatct cggtcaacga 300
aggctgtcac ttctctcgag tctactttca aacatgcgag cacatgtgca gggtctggaa 360
gatacggaaa gtcgggagct gtcaagtacg aggcgggact acagagaact gattcagcgg 420
atgatggcat ccatgaaggc gaactaccag gagctgggca gtggaggagc cagcgcacaa 480
ggagcttacg ttgactttgt ccatcggatc gttgggttcc tgcaacaata cagcagggat 540
atctgcccta ttgatccatt cttcactgat cctacctctt tcccactccc gtcggcggat 600
ccaacctaca ttgtcgccag actcaagagc tacgaaccga agctttgttc tgagaaggta 660
gtgaagacct tgattgtgtt tgtccagggt gtatcggaga gagcagctat cgatgggcag 720
caagtatatc tggttgacca gctccatacg tccatggcag atatctacga aactggagac 780
ccatgtaagc ctactttgcg tgcagttctc ctacaatgcg tgttttccgc ctatatcgag 840
tgcgctttca gcaatcctgc cgcatggctc ctcagtcgac cgattataca gacggtgtct 900
ctcgtcttca gagacttgct ctttttcatg gatatcacgg atgcaatgtg tcggtcttcc 960
gtcttagcta gtcttggtgc tgtcttccgg tcatcctacc aagcctttca gtatatcacg 1020
gggtaccccc tcatgcctac cgattctacc gtgattgcca cacttactaa ttctgttgaa 1080
atggttacct ctgccattcc agttgtcgaa tactttgatc ca 1122

<210> 1783
<211> 357
<212> DNA
<213> A.fumigatus

<400> 1783
acaggtcaac gcgatgccct tacctctcat tactcacgag tccggacagc ggctttggag 60
cactgcgtta aacgccaacc gaatcaatca caggaaaaga ctcgccgtgc cctggctaat 120
ataacaatgc ttctcatgca gaagtatctg aagccagatg gtgtcgttgg aatcgacaat 180
actcgctggc aggcggaccc catattgttc ctgtcagcaa ctcagtccgt ctcgaccgtc 240
caggagttaa caaaggtcag ccaggccttc tacgcccgtt cagaatactc tcagtaccct 300
acagatctac cgccaccccc aatttaccaa acacccctgg tctgcacggc accttga 357

<210> 1784
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1784

aaaacgcctt tcacattcaa gcttggcaag ggtgaggtca tcaagggctg ggatattggt 60
attgctggca tggctgtcgg tggtgagcgt cgtatcacga ttcctcctca cctggcgtac 120
ggcaagaagg ctcttcccgg cattcctgcc aactcgaagt tgatcttcga cgttaaactc 180
cttgagatca aatag 195

<210> 1785
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1785
gatgaaatag gtgcggagga aggcctgctt aagaattatc tactatatat atatctagca 60
gagtttatag acctgtataa taatagtgaa acactgctaa tagagtacct agtatatctt 120
aaactctcag tgcttctagg gctagttatt attattacta ttaccatcct agccctaaag 180
tcaggcaaaa agtatgttaa ggctagtaat ctttatcttt attccagtta taaagtgcag 240
gttagatttc agaaagctat tataaaatac ctaagtaaaa tctag 285

<210> 1786
<211> 732
<212> DNA
<213> A.fumigatus

<400> 1786
acagtttgct tacaccccga tagcggccct gtcatggtga ccgaggcgct caagccatat 60
ggtgccgagg acatgaccct tcattttgtc tccaacattg atggcagcca cattgccgaa 120
gctctcaagc actccgaccc cgagaccacc cttttcctga ttgcttccaa gacattcacc 180
actgcagaga ccaccaccaa cgcaaactcc gcgaagaagt ggttccttga atctgccaag 240
gatgaagccc acattgctaa gcactttgtc gctctctcca ccaacgagga ggaggtcacc 300
aagtttggta ttgacaagaa gaacatgttc ggcttcgcgt cctgggtcgg cggtcgctat 360
tccgtgtgga gcgccattgg tctctctgtt gccctctaca tcggcttcga caacttccac 420
caattccttg ctggtgctca cgccatggat aagcacttcc gcgagacgcc cctcgagcag 480
aacattcctg ttctcggtgg tctgctcagc gtctggtaca gcgacttctt cggcgcccag 540
acccacctcg tagcaccttt cgaccagtac ctgcatcgct tccctgccta cctgcagcag 600
ctctccatgg agagcaacgg caaaggcatc acccgcaccc ggagaatacc gtcaagtaca 660
ccaacgggcc ccatcctgtt tccggtgagc cttgccacca cggccaacac agttttttc 720
agctggtgca cc 732

<210> 1787
<211> 384
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (42),(78)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1787
gaagttcaag cggtaccttt gcccaccccg gttgacaaca cngagatctt tttcgatttt 60
tccaagaatt tcctcacnga ggagaccctt gccttcctgg taaagctcgc cagagaagcc 120
ggtgttgagg aactccgcga tgctatgttc aagggcgatc ccatcaattt caccgaggac 180
cgtgcggttt accacgttgc tttgcgcaat gtcaccaacg agcccatgca ggtcaacggc 240
aagagcgtcg ttgaggatgt caactccgtg cttgagcaca tgaaggagtt cacggagcag 300
gttagaagcg gcgaatggaa gggttacaca ggcaagaaga ttacgacaat catcaacatt 360
ggtatcggtg gttctgatct gtaa 384

<210> 1788
<211> 642
<212> DNA
<213> A.fumigatus

<400> 1788
cggtattctc cgggtgcggg tgatgccttt gccgttgctc tccatggaga gctgctgcag 60
gtaggcaggg aagcgatgca ggtactggtc gaaaggtgct acgaggtggg tctgggcgcc 120
gaagaagtcg ctgtaccaga cgctgagcag accaccgaga acaggaatgt tctgctcgag 180
gggcgtctcg cggaagtgct tatccatggc gtgagcacca gcaaggaatt ggtggaagtt 240
gtcgaagccg atgtagaggg caacagagag accaatggcg ctccacacgg aatagcgacc 300
gccgacccag gacgcgaagc cgaacatgtt cttcttgtca ataccaaact tggtgacctc 360
ctcctcgttg gtggagagag cgacaaagtg cttagcaatg tgggcttcat ccttggcaga 420
ttcaaggaac cacttcttcg cggagtttgc gttggtggtg gtctctgcag tggtgaatgt 480
cttggaagca atcaggaaaa gggtggtctc ggggtcggag tgcttgagag cttcggcaat 540
gtggctgcca tcaatgttgg agacaaaatg aagggtcatg tcctcggcac catatggctt 600
gagcgcctcg gtcaccatga cagggccgct atcggggtgt aa 642

<210> 1789
<211> 432
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (316),(352),(399)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1789
gtagcagact tacagatcag aaccaccgat accaatgttg atgattgtcg taatcttctt 60
gcctgtgtaa cccttccatt cgccgcttct aacctgctcc gtgaactcct tcatgtgctc 120
aagcacggag ttgacatcct caacgacgct cttgccgttg acctgcatgg gctcgttggt 180
gacattgcgc aaagcaacgt ggtaaaccgc acggtcctcg gtgaaattga tgggatcgcc 240
cttgaacata gcatcgcgga gttcctcaac accggcttct ctggcgagct ttaccaggaa 300
ggcaagggtc tcctcngtga ggaaattctt ggaaaaatcg aaaaagatct cngtgttgtc 360
aaccggggtg ggcaaaggta ccgcttgaac ttctcaaanc gccgaagggt cctcctcaaa 420
atattccttt ga 432

<210> 1790
<211> 462
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (392),(418),(425)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1790
ttaggcagtc cttccgcgtc gttgttcaca tcctttggct tcaaccaacc caattacacc 60
agttcgcagc taatggtcat tgactttctt ttcaaattgc agtgcagcgg cggaccacca 120
ccatgtaatt cttgcaagac cgcggatgcc gaatgcgtct tcgatgagtc cctagaccta 180
aggcgaaagg tcgcggctaa acgaaacctc gaggagttgt cctattaccg aagcctgcta 240
tacgctctcc ttgagtcgct tcgcaattca gacgagaccg aattgaacga aatcctggat 300
cacatacgcg gttccccatc gctcaacagc attgcggcca tcgtggctaa gccgaccata 360
gacccaagcg atgtcagttc cgaggacctc anaggtgggt ctgaggagtc cagctcgnaa 420

gctgnaaccg cggaacccgt atacctcgat atacactctt ga 462

<210> 1791
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (68),(75),(101)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1791
gaggatatcg caaggtttct ccatggttat tcaagagtgt atatcgaggt atacgggttc 60
cgcggttnca gcttncgagc tggactcctc agacccacct ntgaggtcct cggaactgac 120
atcgcttggg tctatggtcg gcttagccac gatggccgca atgctgttga gcgatgggga 180
accgcgtatg tgatccagga tttcgttcaa ttcggtctcg tctga 225

<210> 1792
<211> 507
<212> DNA
<213> A.fumigatus

<400> 1792
actgaattcg acgaagtggc catggctagt aaagcgctca atgagcttta tggatataag 60
ctttccaaca gtaccaagac cgggattcgc ctgagtttct ccaagaaccc attgggtgtc 120
cgctccggtc agccgggtag catgaacgcg tccaatcacc tttccgcgca aggctcgatt 180
cctggtggta gcagtctcgg cggcatccac agtcatatgt tctcgacggt aagcggtcca 240
ccgcctgggc ttgctgcgcc gccgggactg gcgatgccca tggctttgag aaacaatggg 300
gccatgcacc tgccagggaa tccccacgca cctatgccca ccaacgggtc gtttaactca 360
aactctggtt tggggatcag aggaaacaac atgaattcgt tgatgtcccc gactccgccc 420
ctcacggggg gtgtaggcgg cacttctacc ggatcaaacg tgggaggctt caattctttc 480
tatcctgact acatgctggg tcggtag 507

<210> 1793
<211> 228
<212> DNA
<213> A.fumigatus

<400> 1793
ctgcagcttc ttgaggacac acaatataat ctcatcggcg gtcttgcaat gcttgatatc 60
cagtaccttg gtctgtccgc cggtatatat gaccctaata actggcgaat ttgcgggcaa 120
agcacccatt gtcagtccat caatgctggg gttttgcctc agatgtacgc cacctttgtg 180
gccatggcta ccatcgctag gtgttcctgg gtttcggcca gaatttga 228

<210> 1794
<211> 1155
<212> DNA
<213> A.fumigatus

<400> 1794
acagtgctcg ggaaagaggg ttatttcgct catccttcca ctggcggctc aaattctggc 60
cgaaacccag gaacacctag cgatggtagc catggccaca aaggtggcgt acatctgagg 120
caaaacccca gcattgatgg actgacaatg ggtgctttgc ccgcaaattc gccagttatt 180
agggtcatat ataccggcgg acagaccaag gtactggata tcaagcattg caagaccgcc 240
gatgagatta tattgtgtgt cctcaagaag ctgcagctac cggagcacca gtatcgcaac 300

tattgcttct acgtgctgga cggcttggaa ccagatcctt cgaactgtag gcgacttacg 360
gatcaggagc tcatggagat ttgcgaagga tcaagtaggt ccgagcgcgg acgtctcatt 420
ctgcggaaaa ttcacgctgg cgaaccggat actgatgagc ttcgtcgtgc ttcccagctt 480
gcgttggatg agagccaaat gacacacatg aatgctctga gcagttcaaa tgtgcgcaac 540
cagattaaaa tacagcaact cacaggtgaa ccctggcatc acatcaaaca acctttgtcg 600
cctgtatctg ctcggcaacc tcaggctcat aatgaccatg accagtctct ccaaatgagc 660
actgaacgtc cctctgtggc caagttgcga tctttcttcg gggctcgccc acctagcgaa 720
atgattattc atgaacttac atcatatttt cccggtcatc agcgtgagga tattgaaaag 780
accatgcgca tgtcgatccg gagatctcaa cgtctcagcc gagcagcaag tcgcctgagc 840
gtcctcagca atacaagcta tgcatcgagc ttgagggatg ccccccgat tccgagtatc 900
gctgacacct ggctcaatcc tggagcacca tctactcgcg cctcgaggcc gctctcggtt 960
tcccgattca atctcccgca aacatcatat agggattcta tcgcctcaag ctctcttcag 1020
cctcttcaag aggagtctcc tattgagccg aatcgcaaat catatgtttc ctttgatagt 1080
ggctcagatg atccgagtaa ctctcgccaa agccttcttg atgttttcac caagggagcc 1140
ggacaccggc aagca 1155

<210> 1795
<211> 450
<212> DNA
<213> A.fumigatus

<400> 1795
gtgtctacct ttatcaaacg acgtgacgag atcaaaactc aatatgctcg acgatacaat 60
tatagtcgag ctcaatgcga ggatccaaag gttatcaaag ggtggtttaa ctgcctacaa 120
cagatccaaa tgcaatacgg catctcctat gaagatatct acaactttga tgaaacaggc 180
ttcgcgatgg gcttaattgc gactactaag gtagtaacaa gagctaatat gcctgggaag 240
cctcatctca ttcagccagg caatcgggaa tgggttacaa caattgaatg cattaatact 300
actggctggg tgcttccttc ttgtataatc ttcaagggga aggttcatat cgagggatgg 360
tatcaagatc aggctttatc acctgattgg agaattgaag tcagtcaaaa tggatggaca 420
acagatgaga taggccttcg atggctttaa 450

<210> 1796
<211> 768
<212> DNA
<213> A.fumigatus

<400> 1796
gtttctactt gctttccctc tgacctggtt gtgttatgca ttctgacaga ggaccggtgt 60
tgtcatagaa catttgcatt cgttgtagga ttcagcacat ttcttacgaa ttgcatcgac 120
taccacaagg tccgtgggag caagtcattg aatgatatat tgatcaagca gtgtaccacc 180
aagatgtcac tgtcgtccac ctttctgctc tggttactca cgctgttttg gattggaaaa 240
gccttccagt gcttgttgga tatcacaaag ctgaaacaca tgcatgactt ctattattac 300
ttgcttggag tctctgatac cgacattcag actatatcat ggcaagaaat tgtcagtcga 360
ctcatgacta taagggacgc caatcccgcg acagccggtg cggtgtctgc gagacaccgt 420
aagttcatgg gcagtcagtc taagcaacga atggatgctc acgacattgc caatcgactg 480
atgcgtaagg aaaattatct tatcgccttg atcaacaaag acatattgga cttgacgctt 540
cccatcccgt ttctcaggaa caagcaactg ttctctcgga cgctggagtg gaatatcaat 600
ctatgtataa tggactatgt ctttaacgaa caaggccaag ttcggactct gttcttgaag 660
gatactcacc gaaaggcgct gagcgagggc ctgcgacgac gatttatttt cgcgggcatt 720
atgaatatat tcgtcttcac ccacggggat gggcggatcc gcgcttaa 768

<210> 1797
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1797
acttccagcc cccatgttgc ggacaacacc gacaatagtc ttgggctgcg cagcgtggct 60
ttggagtttc tctatggcct ggagacactg ggagccatct tcgctcgcca catgaatatg 120
actgagcgac tatttgaaat cttcaaacaa atccgtcttc acgacgaggc gccggtaccg 180
cgctatgtc 189

<210> 1798
<211> 759
<212> DNA
<213> A.fumigatus

<400> 1798
cagaccttga tccaggctgc tcctgaggca gatccggaaa cggggctcta tcggctccgg 60
gatccatcac taagcccaac aggttccgat acaagcactg tcggtaaatc aggagctaag 120
tctggtgtca gcccttcacc gtcgactcac agtctttcaa aaatgtcacg gcccggttta 180
aggaggtcga gaagctctgc tgcctcactg tctacccagt ctcaatcaga gcagccatct 240
acctctccac ccactagcgt cccggaagga agagaaagca gcagcaatat ttcgagtgct 300
ccaacaggta ttgcaggcga agtgggccag atggactcgc atgactttca agtgtacaag 360
atccctttga cactaaagaa caaggaacgg tgggaagaca agcactctcc agagattatt 420
gtgaaagcaa aatatatgcc ctaccgtgcg cttcgtcagc aattctggag acttatgctc 480
aaacaatatg acgctgatga cagtggtcga atcgacaagg tcgagttgac aacgatgctt 540
gacactcttg gctcgaccct gaaagagtct acgattgaca gtttcttccg gcggttcagt 600
tctggaaacg agccggttga gactgtggat ttgagtttcg accaagttgt gatgtgtctg 660
gaggatacac tacaggcgct gcaaacagct cccgaagggc catggccaac attccgcttt 720
ttaacccctt ccttcattgt cgtccaaaaa actgactaa 759

<210> 1799
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1799
gcaactttca ttcggctcag cacacatccg gaccgcgtga ttctagacaa ctctgaagtg 60
gtgctgcgat tattcactca tgagtttttt ctagaggaga acagtgtaaa ttattcagag 120
tgcttctttc cttctcccct gctacgcacg tgtttcagaa tgctgccgct gagcaacata 180
tga 183

<210> 1800
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1800
tccctcttat ccattttcct cctattcttt ttcatttccc tcatcactgc aactctaatc 60
ctcgggctca ccctccctgt gtctcctcga aatggtgccg atgctatggc ttacggccta 120
catggccgtt gcggtgctga cggcaatctt gctcaatgtt gtttatcaat aattctttcg 180
gctttggaac ccaacagaac cgccaatggt ctctcatag 219

<210> 1801
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (104)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1801
ttctttcggc tttggaaccc aacagaaccg ccaatggtct ctcatagggt cccatttctg 60
ggtagtacca tcagttacgg gattgatccc tacaagttct tctntgcgtg cagagaaaag 120
gcaagtctca agatcgtagt tagacattcc atcctgcgcg cattgctgga gtattgcttt 180
cttaaccggc agtatggcga tatcttcccc ttttaa 216

<210> 1802
<211> 534
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (12),(19)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1802
tatgcatgtg tncgatcgna cggtcaagac gtcttagggt atatctccgg cagtactcgc 60
gtcgcaaatc tcatcggtgc aacgcttgtg gatgccgcga agacttccgc gaaggtgacc 120
atgggaggtg cggtcatcgt cggtctgttg aatatgatcg tcctctcgtc tctgcgccat 180
tacattcccc ttttgttcac ttcagatgag gaagtgatca agctcgtagc tggagtgcta 240
cctctctgcg cagcgtttca gctttctgac gccctcgcgg ctaactgcaa tggtatcatg 300
cgcggtattg gaaggcaaga aattggaggt tacgtccagc tgttttcata ctacgccatt 360
gcgatgccga tcagctttgg cacaactttc ggactgaatt ggggtctgtt tggtctctgg 420
tccggagtcg ctattgcgct ttgtctcgtc tcgatcatcg agatgatctt cctcactcgg 480
gcagattgga atagggctgt aactgatgcc cttcgcagaa acgcaatggc ataa 534

<210> 1803
<211> 492
<212> DNA
<213> A.fumigatus

<400> 1803
ggcgtaggcg atgatctggc tccgcctggt gaagacattt ctgccaagat tgcctactgg 60
cgatacggcc taaatgtcgc cggctcatgg aagagaaaac tccgccaaca agtgcccgat 120
tcatggacga ccgttgcgga caatctcgca cctccgcctc aagttgacgg cctttatgcc 180
gtctatcaag gcttgaatag ctcttggtgg aatgatacgt ctctaaccaa ggatcctcgc 240
agtttgatta tgttgcaggg tatcctcccc gatacaccag cagtggatgc caaagttgca 300
ttggcaaccg cgcagaaggt ctgggaagtc tggacagatg acaaaatcag aggatgggga 360
agacctgtgc tcgccatcaa cgctgctcgg gttgggagcc cggaaagggc aatagggcat 420
ttaaccgcct atgactattg ggtcttccat gatgctggta tgtgtcctgc ttccgccata 480
gcacaaagct aa 492

<210> 1804
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1804
tattacccga taggattcgc agttcgcggt ggtgacggta agactctcct tccctgtgat 60
ctgttgagtc cactgacgaa tagtacgtat acaggcggca ctccccctcc ctttatgccg 120
gggaacgcgg ggttcttgta tgccgtggcg tatatggctg ctggctggca cggatcccac 180
ggcgacgctc ctgtgttccc ttctgatggc agctgggctg tgaaacatga aggtctacgc 240
aaggcgccgt acacactgta g 261

<210> 1805
<211> 450
<212> DNA
<213> A.fumigatus

<400> 1805
cccgctgata tgtattttgg cggagaaacg ggcattcagt gggttgcaga accagggcgg 60
ttcatcgtta gcgaagcttt ctatctagtt tgtcgcgtgc ttggaactcg gaaacgtctg 120
gtggaatatg tcgacgggcc caaccaaaac cattatttcc atgcggagtt atttgtgaat 180
gatgggatct accaaaactt tctcaatgcg cttgtcgaag gatatattcc gacgccaatc 240
cctcttgacc ccagcgggcg cccatatggg ctgccggaga gggaggataa atcatactca 300
tataccatct ggggccagac ctgttgcggc gcagacaaaa tcaagtccaa ctgtcgtcta 360
cgttgtgaaa tgcaggcagg ggatctgctt tgttttccat cgatgggagg taggatttcc 420
gttgattgta tgcatatgat tgactgctga 450

<210> 1806
<211> 516
<212> DNA
<213> A.fumigatus

<400> 1806
acctattatt ttccatcgcc tggcgtctta aacaaaactc aatcggttgc tgtggcgagc 60
caaagtcttt cttattatct agctcagagc cgtggacgtt ccttagtatc tgttcgctct 120
tttggacgcg tttctggcgt gattgcgaca cattcctcgg ctggtcgatc gttgaaagta 180
ctgaccacgc caatttttcc tccatacctg ccttcaagag gattgtcgcg atctccggaa 240
cctgttagaa tgccagccag tgctgttgcg ccggacgaca ccctccaggt tgggattgtc 300
ccagaagcga ccaagtcaaa cgacgagcca ttccaggatt ttccttcaga ccctgagtca 360
gatgatgaag ttcctgttga agcagaagag ctccaggatg ctctctcgcg tcccccacct 420
gcaaatagta gctaccttcc gctcccttgg agaggccgat taggctatgt aagtcacgtt 480
gattcgcgca ttctttcgga tgctggcccc ctgtag 516

<210> 1807
<211> 441
<212> DNA
<213> A.fumigatus

<400> 1807
gcttgtttga atacatatct acggaacgcg aaccagccag tgttctgctc tcggacctgt 60
cgcatcgcgt ccattcttga aaaccgacac ccacttgcgg atccttcgca gccgcctcat 120
ccgaccaaga accgccctga tcgggatcgg acgcctgata ttgcccgcgg ccaggcttac 180
gttgagtctt tgggactggc caatgcgcga gatctgatta agatcctgcg ctggaatgac 240
aaatatggca tcaaattcat gcggctgagc agtgagatgt ttcccttcgc cagccataaa 300
gagtatggct ataaacttgc ctcgtttgca tcagaggtcc tcgctgaggt tggccgcgtg 360
gttgccgaac tcggtcatcg agtgtccgta catcctggcc agtttactca gctgtcttca 420
cgacgggctg gaagagacac g 441

<210> 1808
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1808
ccaaagtatg tgtcaagcag tatcaagatt gaacccaaca gccgcaacga cgagctgtgc 60
aggagaagag ctgtgtctgt ggatggaaat ggtaacaaga agaagacgga aggatattac 120
tcttccaaga ttacgcaggg acctaagcgg cttggatggt gggtgagacg aaaggaaacg 180

agaaaatga 189

<210> 1809
<211> 603
<212> DNA
<213> A.fumigatus

<400> 1809
gcgtttttttc ctcaaactgg gccccacagt ttggccccgg ctgggcaaaa ttcggcggaa 60
attgaaccaa gaacggtttc attccttcgg ttccagcagc agcccaccgg ttttcatccc 120
gcaaggtcag tttccaggtg gcttgggtgg cacagcccat ggggttacca gccacagtca 180
caattgggca ttcagcaact tcagcaacag cagactggct tccagggctt ggcaccacac 240
ccgacaggct ttgaaggcta ccaccggcaa ctccagccac agcagccaat gccgacaggc 300
attaactcga tacttcctcc ggctcttcaa ccccaaccta ccggcatgaa cggtgcgagc 360
agtatgcctt atactgtaac ctccccacca ccggtccccc ctattcccca acagcccaca 420
gccgcacctt tgcagccaca gaagactgga ccacctcctc ccgtacgatt tggggtcaag 480
catgatgctc ccaagaagct gactccccag ccaaccggtt tgcgggctaa ccttgcacaa 540
gctagtgagt tctctccatt gccaagacgt gccattctcc caccatttgg tcaaggccac 600
tga 603

<210> 1810
<211> 513
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (90)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1810
gaactttgga ggctaacgct cgcacattcc tattctttag tagtggccgc cttcgccttc 60
cactggatcc ccgtcaacca cgacctcacn gtcatccaca cgcagcaaat gaactgggcc 120
agcatcttcc tcttcgtgac catcatcatc tacgtagcct tcttcgccgc cggcgttgcc 180
ccaatcgcat gggttggcac agagttcctc ccgctagaag tgcgcgcact cggcacgatg 240
atgaacacgg tgacctgctg gggatgcaac atcatcatct cgtcgacgtt tctgtcgatg 300
atgaaggcca tgacgccgag cggggcgttt gggttctatg ctgggatttg ctttgttgga 360
tgggtgttca tcatcttctg ttatgccgag gtgcataata tgccgctgga gtcagtgcga 420
gaggtgtata gacatggctt tggtgttaag tatgctaaac agctgcagag gcagaggata 480
cttcaggaga ggcagaagcc ggtggatgcc tag 513

<210> 1811
<211> 249
<212> DNA
<213> A.fumigatus

<400> 1811
gaacttgtgc agtgtcagcg tacggcgcac tgtgcactgt gcacagtgca caatttgcgt 60
gagatggagt acaaccagaa agacactcag cctcgcggtt tatccaacac agtcgatttc 120
actattgaca atgccatgga aaaagacggt gaggacgagt ttgcggtcag tcgactgttg 180
atagtagtgg ctggctggag gttggatgag caaggaaacg atttacattc ctgggggtgg 240
attatctga 249

<210> 1812
<211> 183
<212> DNA

<213> A.fumigatus

<400> 1812
taccctctta agtttatagt aatattcctt gatttattac ctgcagtatt agtaatatac 60
tatatacttt ttatagtata ttatatgcta ttcctaagat ttaacttagg tctaatattc 120
caagttctaa tatatatatc cttttacccc ttatttaacc tttttaaggg tttacttatt 180
tag 183

<210> 1813
<211> 969
<212> DNA
<213> A.fumigatus

<400> 1813
cgcccgccgg ggtacccaag ggttttggga tttcgccctt cggccgcatt cttccaaccc 60
cttaatgggt ttgtgctggg aggaaatgca tccaacccct tccgcccccg ggcaggttcg 120
gttttgagca cccccaacca cttcggcccc attggtgttg gcggaggctg gcaatccaaa 180
tacattgttt cgccatcagc gctttctcac ccaactgccg tcttgtcatc tattagacct 240
aagaagaaac tcaaggctct tcattgggac aaggtcgata ctccacaggt aacagtatgg 300
gctattcgcg atcccactcc tcaagcgaag gaacagaagt acagcgagtt ggcgaagaag 360
ggtgtcttgg acgaagtcga gaggttattc atggcgaagg agaccaagat ctttggggcc 420
ggctccggtg cgaaacagcg caaagacaag aaacagatca tctcaaacga cttgtcgaag 480
accttccaga tcgcattggc caagttttcg cagtatccta tcgatgatgt cgtccgtatg 540
attatccatt gcgatccaga aattctggac aatatggtgg tcatggactt tttgcagcga 600
gaggacatgt gcacgatacc tgagaatgtc tccaagctaa tggcgcctta cagcaaggat 660
tggacgggac ctgatgctgc tagttctgag cgggagcaag atccaaccga gcttacacgg 720
gaagaccaga tctacctcta cactgcgttt gagctgaatc attactggaa agcaagaatg 780
agggctcttg cactgacacg atccttcgag ccggattatg agcatctctc gacgaaaatc 840
cgcgaggtcg tgagagtcag tgagagcctg agagactcag tctccttgat gaatgttctt 900
ggactgatcc tggatatcgg taacttcatg aacggtcttc accacggggc tggaaggagc 960
cgcgccatc 969

<210> 1814
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1814
tgtaataaca atttggacaa cgaactttcc tataccatgg cacgcatgca cacttgcgaa 60
attttacccg tccttttctt gataaatcgc tgctctcgtt ttgaacgaca agaatttgat 120
tggggttcgc ggtgtggtgc ctacagcgag ttagaaaatg caaggcctta ttctgtgatt 180
gacaagtga 189

<210> 1815
<211> 210
<212> DNA
<213> A.fumigatus

<400> 1815
cggactgctc tagttggatg gggccgcaca cagacagacc ctgccttcgg cgcgacatac 60
gacagcacaa gtatcaaggc caaatccgtg aatctgatcg ctagtgtccg gaccgtgatg 120
cgaagtaagc tactctcaat tttgccgtcc atttttgcct gttctgttgc ttcgttggat 180
cggaagttgg gctacatggg gctgagctaa 210

<210> 1816
<211> 600

<212> DNA
<213> A.fumigatus

<400> 1816
caagcactcc ttgtctttcc aaaatccgct cgtcgattta cttccaggag aagtaatttg 60
gttacacagt tgatctgttg gaaatatcgc tccatacttt cagggactca gaaaatagcc 120
agctctggaa tcatgcgtta ctcgtggttg atcggcgccg tctgcgctgc aggtgctctc 180
gccaagcctg tcgacaaacg gtcttacgtt accgattgga ctatcgtgac cgtcacagag 240
accatcaccc tcccttatca gcctcccccа acctcaactc cggcctactc ccccatccag 300
gcggtccagc tcactcagac agtcaccacc gtcgaccctg cccctgcccc tgctcctgtg 360
gagcctgaaa cttcatccgc ctcccctatc ccgaccactg aggctgtcaa tacagctccg 420
gtcggtgtag tagaggaatt gcctggggct gctgcttggg cttcggcttg gacatcggct 480
tggacatctg cttggacatc tgcttggacc tcatcggctc ctgatgctgc gcaacccacc 540
acccttgcta cttcgacctc taccactgcc cccgctagtg ttcctaccgc tgctggctcg 600

<210> 1817
<211> 480
<212> DNA
<213> A.fumigatus

<400> 1817
ccccattcaa ctaaactcat attttcgtca gatttctctg ttcctggaaa atccaattca 60
ttcggatatg ttccttcaaa ggcgaactac attcgccctg gaaagcgtcc actgtcgtcc 120
atcacacccg ccatcgtcac ccgtccggat ggaaagttat ttttcctcgc tggctccgct 180
ggtggtagcc ggattataac agccaccgtg caaaatataa ttcgtgttat tgaccaaggg 240
ctgacggcag cgcaggcatt ggctcaaccc cgtttgcacg atcagctgat accaaatcag 300
gttagcttcg agtataccta tgataattca accgtcgatt tcatgaagtc tcgtggtcat 360
aatgtgactt gggtcgctcc aggtcagagc acggcgcagg ccatccgggt tctcccgaat 420
gggacatttg acgccgctgg agagcccagg cagttagatt cgggcggctt ctcgatttga 480

<210> 1818
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1818
tttcatttcc cgtatataca tggttataaa gtaatgaatg taaactggct gaataacgag 60
gtctactgtc acctgaacta catctatgcc atgattcgtg agattgattt gcacagcaac 120
aatcaaatcg agaagccgcc cgaatctaac tgcctgggct ctccagcggc gtcaaatgtc 180
ccattcggga gaacccggat ggcctgcgcc gtgctctga 219

<210> 1819
<211> 375
<212> DNA
<213> A.fumigatus

<400> 1819
tcgatcgcct ccttcaacgg agatctttcc tcattaaccg ctcctccctt cattctttcg 60
ggcacctctt tgacggaata ctctgcttac tgggctgaac atcccagtct ctttgtggct 120
gcggccaaag aagccgaccc cgagaagcga gcgttggctg ttctgaaatg gtttctcagc 180
acgctgcgtc aacagtactg ctctcgcagt gagaagctgg gcagtgagaa gaagccacta 240
aaccccttcc tgggtgagct tttcctcggc aagtgggaaa ctgaccccga tgccggagag 300
actactttga tcagcgagca agtcaggttc gtttttcctt ggttggctca gcggcgaccc 360
gatactgacc cataa 375

<210> 1820

<211> 507
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (340)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1820
ctacaaggat acaatgcgca gaaggcatcc ttttccaaca ccatccaaat caagcaaatc 60
ggccatgcct tgctgacaat caccccccca tccgcggaca agaacgaccc ggctcagaag 120
gagcgctacc ttatcacact cccatacctg catgtcgagt ccctcatcta cggtacacca 180
ttcatggaat tggaaagatc gaccatgatc gccagtagca cggggtacat cgccaaaatc 240
aattactccc ggcagggctg gctcagcggc aagaaaaaca ctttcaacgc cgtgctctac 300
cacgaaaaac acggggagag gaaacctcta tacaccgcan aaagacaatg gtctgacaca 360
ttccttatca aagacgcccg gaccaacaag gaagatcgac cgctacattg gcaaagactt 420
gaggaccacc ccgttgaacc gttgccctct ggaagaaccg gatctattgg agaagccgga 480
aaacttggcg ccaagtcgct atcgcct 507

<210> 1821
<211> 204
<212> DNA
<213> A.fumigatus

<400> 1821
ggatcctcca tctatcattc ttcagaggct ggcatctttg ttaattccat tgcgtcgata 60
tacagaggat gcaagattcc ttacaagttc gccaagctct tcccgcgtcc tatcgtcaac 120
agcattcccg atttggttcc atcgaacgtc agtatcgaca agaaatccct tgtatattgg 180
tgtcgcagcc gtaagtgcca gtag 204

<210> 1822
<211> 441
<212> DNA
<213> A.fumigatus

<400> 1822
caaagatgcc agcctctgaa gaatgataga tggaggatcc ctaagtctcg atacgcgtcc 60
aactccacct acatctccca ggacccgagg ctgcgtaagg agtacctgga tcccgaactg 120
atcgtggacg aagacatcaa gaaacgactt atcgagggag gcatggatga tttgttagcg 180
actcattttg cccacctttt catccgtgac cccttggtca tcttctcgga ggacctggac 240
gagctggatt tgaacaaggc cgaccacttt gagaacctac agtcgactaa ctggcaacac 300
atgcgcttta agccgccgcc acctgacaag gctgacattg gctggcgtgt cgaatttcgt 360
tcaatggaaa tccagatgac ggactttgag aatccggctt tcagtattct tcaccagcgc 420
ctggaaggat ccacaatggt t 441

<210> 1823
<211> 537
<212> DNA
<213> A.fumigatus

<400> 1823
cgcggatccg cggcctctgt ggagaagacc gacgaaggtg ctaatccaca tatcagattc 60
ccaacactgg cagcaaatat cagatcgaga aggggtcgaa aggtcgagtt gaatgtgccc 120
atcttcgtgg acaagaacac cccagtgcct ttcaaggacc ccaccgtgga ctatgatctt 180
cacaactggc ccgaggatga tgatgtgcga aatggagcag caaaggaagg ccatgtctat 240

atggatgcga tggcgtttgg aatgggcagt tgctgccttc agatcacatt tcaagccaaa 300
aacataacgg aagggaggaa actgtatgac cagcttagcc cactgggacc cattctactg 360
gcacttacgg ctgcgacacc aatatacaag ggatttcttg tcgatactga cgttcgatgg 420
aaccaaatcg ggaatgctgt tgacgatagg acgcgggaag agcttggcga acttgtaagg 480
aatcttgcat cctctgtata tcgacgcaat ggaattaaca aagatgccag cctctga 537

<210> 1824
<211> 768
<212> DNA
<213> A.fumigatus

<400> 1824
atgcggttct tccagcccct gggcgtgaag actaatcaag cgtctctgac cgcatttgta 60
atgtccagaa gcatcgttct tcactttgca cctgccagca tacatcgtct gtcttgcctc 120
gatccttttc cactactcct gatcggcatg tccaacagag cgccgacttt tcttcgacta 180
gtcggagtta tgaccggctt ggccggcgag caagggagaa gcttctcgat cgggtaccgt 240
cacactgcaa tacatggtta tcagcactat tggctaacgg gttcattctt ctcgcaattg 300
caggaattct ttctgagctt gttgagctcc gcaaccacca agcgagaagc caaatcctat 360
ctggctcggt tgaaggctca acacccaaag tcacccgatg cgaacaaacc cgaacccgag 420
aaatcagcta cagcacctac cttgccctcc ggtgtcaatc tggggtcgtt ctacggagcc 480
tctagatccg tctacgagag tcccgtcttc cgacagggtc ccagcccttc cgctccacct 540
tcgctggagc cagtcgaacg actgcatttg gccttggtca gattgtccac cccgcaatcg 600
cttgatgaca acattatcga cggcgtcgca aagactctgt ctcaattaaa tcgcctgggc 660
ttgacctgct gtgttgtggt tgatccaggg acggagggag ttgcaagtgc tctgcggcaa 720
gttgctagtc ttcaccacgg ggctggaagg atccgcggtg gcgctttc 768

<210> 1825
<211> 213
<212> DNA
<213> A.fumigatus

<400> 1825
gctaggagta ctactagttt actaaattcc tgtaggagct taagaactac tactagcaat 60
ataccacaaa ccaacccccct attattaaga cctatgctac tactactaaa cctacctagt 120
attcctagtt accctaaagc tctagcccta ttactactaa gtctactaaa caaccctggc 180
gccctattat tcagaggaat gagcatatgc tag 213

<210> 1826
<211> 423
<212> DNA
<213> A.fumigatus

<400> 1826
acaacgctgt tctggctttc tctcctttcc agtgcaactc tccgatctac acccaagctt 60
ggtcctgaga aactgaagga aatgcggtcg atcgcccacg tcgtctgggc cctcacaggg 120
ttcggaatac cctcggctat gtcactcagc attccttctc cgcagcagat cctcaagtcc 180
tggtctggca ccaacaacat ctgccctctg gcacccaagg tcgaagtgcc tgaagatgga 240
ctactttctg cacttcgata tgtccagaat gagactattc ggctgcagca ggtcgaccgt 300
ctctcaagag ccgtccagat tcccaccact gtcaatgact acatgacgga cccgtttgat 360
gagggattcg ctccctttgt tgagttccaa gaactcctgg aatcgctgtt tcctctgatg 420
tag 423

<210> 1827
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1827
ctggagagaa acccgtccag acagcgcaga ctcgcagcaa catatgccag agtaacgata 60
gccgggggct tccacaaggc aatcaagcct atagtccacg ccgctgttat cgtggctagt 120
gaccagcgag ccacaggctg ggagaacact aacgggattg ttttgcgggc tcctgttgtg 180
tctgccaccc cgtcccggaa gtcttga 207

<210> 1828
<211> 654
<212> DNA
<213> A.fumigatus

<400> 1828
tctgcaagac agacctcccc tatgcctcgc caacggagca agggccgcat cccctgcaag 60
atccgccgaa agaaatgcga cgagagaaag ccaacttgcg tcgcttgtgt acggaatgtc 120
cttctctgtg cgtgggactc ggagtcacct ccaagccaac cccacaactc aagtagcaga 180
ggtctcaagg ctaagagccc acggctaggc cgacatcaac tagcgccaaa gcgcatgagt 240
tcggacctag cgttgtctgc ggcaccaaat ctcatacatc ctcaactcgc ccaccccaag 300
acaaacttcc tctactcatt tttctacgcc cgagccgcac aaacgttgtc gatcagagac 360
agggaaggaa acccccttcgt gcacgtcctg atgccaatgg ctgcgaccag tgacatcgtc 420
tttcaagcca tgcttgcctt cagtggagtg gtctatgaac agcagcactc cagtaatttg 480
gccacgacga cgtgggaaca ttatgcgcag gcgattcgca gtttgaagca tgcgcttacg 540
ctctatgtgg accaccaagt ggaccgcggg gctgaactgg tcgcgactgt gcttcttctg 600
ctggccttgg aggtaggcag gatatgcccc ttcgggagcg gttggtcacg ttga 654

<210> 1829
<211> 687
<212> DNA
<213> A.fumigatus

<400> 1829
gtcatgattg ccgatgatcg ggtcgtcatc tgtggctctg ccaatctgaa tgatcgttcc 60
cagctcgggg atcacgattc agagattgcg gtcattatcg aagactacac ccccgttcag 120
tccaccatga atggcaagcc atggaccgcc agtcgctttg ccgcctctct gcgtcgacaa 180
ctattccgca agcacctcgg cctcctgccc acccaagatt accaacgccc agatgccaac 240
tctgagcccg tgggcgttcc caatgacttc gactttgagg ctccagagag tcaaatcgtg 300
gcagatcctc tcgcggatac ccttcagagc ctctggaata cacgcgcaag gacaaacacc 360
gagttcttcc gcaaagtctt ccatgctgtt ccagacgaca ccgtgcgcaa ctgggcgaca 420
taccgggagt tttacagcta ctatttccag aacgccgata aggcatccta cggcaaggac 480
gagaaagtca agcccccgcg gtacgaatat ggacatgttg tgcgggacga cttccctcct 540
ggaccagaag gcgttcgaca ggtcaaggag ctgctgagtc aggtcaaagg cacgctggtc 600
gagatgccat tgatgttctt gatcgaggag gatgttgcga agtcgggatt ggctctcaat 660
gacctgacgg agcccctcta cacttga 687

<210> 1830
<211> 189
<212> DNA
<213> A.fumigatus

<400> 1830
tgtggcccta cttattgtac ggtgtacaaa aagtccaaga cgatgatgtt cgcaatgatc 60
aaggatcgtc cacaaatgga gactgccgaa atgaaagagg ttctctttac gcagttggag 120
atcctagagc cgaatctccc attgttatca gaagagaata ctcgctgtag gccgctggac 180
attgactga 189

<210> 1831

<211> 912
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (766)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1831
agatgcgagt actggccttt acgcaaactc gccacgatta ccgattctga tattgaaaga 60
atccttcagg cctactctgc tgggaaagaa agtgccagcg acatgaatag gactgcgctg 120
ttatctaaga agggaaagat tgttttggct ggctctggtc ctggccatcc cgatttgctc 180
actcgcgcaa cttatcatgc gatccagaat gcagacatta tattggcgga taagcttgtg 240
cctgctccag tcttggactt gataccacgc cggaccgagg tccatattgc gcgaaaattc 300
cccggaaacg cggatcaggc gcaagaagag tttatgcaaa tgggaatcga agccctgcgt 360
caggggcggt acgtactccg gctgaagcag ggggatccgt atctctatgg tcgaggagga 420
gaggaatttg agtacttccg aggcgaaggg tttacccccct tggttcttcc cggaatcacc 480
agcgcgctca gtgccccatt gttcgcggat atccctgcta cccatcgtgg tgtttcggac 540
caggttctgg tctgcaccgg cactggaagg aaaggcgcag ctccagagcc tcctacttac 600
gtaccgactc agacagtcgt cttcctgatg gcgctgcata gactatctgc acttgtggaa 660
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gaactggttt aa 912

<210> 1832
<211> 522
<212> DNA
<213> A.fumigatus

<400> 1832
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ggtagcaggg atatccgcga acaatggggc actgagcgcg ctggtgattc cgggaagaac 180
caaggggtta aacccttcgc ctcggaagta ctcaaattcc tctcctcctc gaccatagag 240
atacggatcc ccctgcttca gccggagtac gtaccgcccc tgacgcaggg cttcgattcc 300
catttgcata aactcttctt gcgcctgatc cgcgtttccg gggaattttc gcgcaatatg 360
gacctcggtc cggcgtggta tcaagtccaa gactggagca ggcacaagct tatccgccaa 420
tataatgtct gcattctgga tcgcatgata agttgcgcga gtgagcaaat cgggatggcc 480
aggaccagag ccagccaaaa caatctttcc cttcttagat aa 522

<210> 1833
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1833
gtaggaggct ctggagctgc gcctttcctt ccagtgccgg tgcagaccag aacctggtcc 60
gaaacaccac gatgggtagc agggatatcc gcgaacaatg gggcactgag cgcgctggtg 120
attccgggaa gaaccaaggg ggtaaaccct tcgcctcgga agtactcaaa ttcctctcct 180
cctcgaccat ag 192

<210> 1834
<211> 222

<212> DNA
<213> A.fumigatus

<400> 1834
atatttataa ttactctaga agatcttaaa gctactctaa ggattaggaa agctcagaag 60
gaagatccta ctaacctatt acctaataaa tttaaagact atgctaatat tttctccccc 120
aagaaggcta agcgcctact actatactac ctctataact ataatattaa gctattagag 180
ggaaagaccc ccttatttag ccctctatat actatgtctt aa 222

<210> 1835
<211> 648
<212> DNA
<213> A.fumigatus

<400> 1835
tttgaccagc gtcgtccttc cagccccgtg gtgaagacag tggcacctac agtattcatt 60
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ggctactcaa cctcaacctt cgactacaac agcaaccagg tcactatcca gtataacgcc 180
gctgtcgata cccaggccga ccagtccaac tcggatagtg ccactgttta tgccactggc 240
aactacttcc aggctatcaa tatcaacttt gtcaacgact ttggcaccac caagaactat 300
gcatcgctcg gtttcgcagt caagtcaagc aagtacgcct ctctgtacgg ttgccaggtg 360
aaagggaacc aagacgcact cttgatcaat ggatacttct tcgctagcaa cagctacatt 420
gaggggaaca tcgatatgat ctggggatcg ggggctgggt acttcctcaa gtcggccatt 480
gcacctaata aggacggcat caatctgact gcccataagc ggtccacaaa tacaagtgca 540
gctggatttg tctttgacca atgtgctatc gttccctcca ctggtgccgg gacaatgtcc 600
gatatctcac tcggccgacc atggaactct ttggctctcg tggcgtag 648

<210> 1836
<211> 354
<212> DNA
<213> A.fumigatus

<400> 1836
gtggattcgt accttgattc gtgtgtgacg gcagccggat gggagcagtg gtcgtcgagt 60
actccaaaca ccgatgggtt ggtattcggt gagtacggca actatgggcc tggcgcgtcg 120
actgctcagc gtgcctcgtt tgcaactcag ttggatggta gcggtgtttc tcagttccag 180
ttgtcgagct tctttgcagt gacgtcttgg atttatttca ctcatgtcag tggaactccg 240
ttcgtccctg gaaatataat cagcacaagt gtgcctgtgc agtcagcgac gccgacctcg 300
agtaccgatg gttccaccct ttactgtgac aaccacaatg accgtgacag ataa 354

<210> 1837
<211> 267
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (187)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1837
tcagcacaag tgtgcctgtg cagtcagcga cgccgacctc gagtaccgat ggttccaccc 60
tttactgtga caaccacaat gaccgtgaca gataaggaga ctctgtacac aacattgacc 120
tctgctgata agacttccac gacgaagtat accgtcacgg aagatgtggg tacaacccta 180
agtgcanccc agtcgttcaa gacaacgacc cagaagaact acgtcacgga caccgtaatt 240
gtcactgagc ccacagtgaa cgagcac 267

<210> 1838
<211> 264
<212> DNA
<213> A.fumigatus

<400> 1838
ctatctcatg atgtgcacta catgcattct ttcacattga aagtattaga cctcatttta 60
gagtggatct atcaggctat gtcattgaca agcatgttac ctactagcaa attgctgtct 120
tctctgaaga agggtaactc taaactatat acaaaactgc ccacgaagat cgactccatg 180
gctctttccc agcttatcgc gagtatcacg aatgatcttt ctgcgtttgg caagtggagt 240
caggtaaaca tgtatcacgg atag 264

<210> 1839
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1839
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aagcccaaca cctgcgtgca tgaccacggc gagcccgtgg tgatcccgcg gatcgcgcag 120
aacgaccaag cggactacga gggcgaattg gtctgtctca tcgcgttctt tcttccatcc 180
acgatctcct aa 192

<210> 1840
<211> 255
<212> DNA
<213> A.fumigatus

<400> 1840
agactcgatg gccgcatcct gcgcggcgag cccatcctgc ccgcggagag cacgatcgat 60
cttgggttcg tcaccgacgc tgatcagctg caagcccgcg ttatccaagg ccaggacatc 120
tacaatacga caggcgagac caaggtgacg gatgagattg tgactgtgaa acagatcctc 180
tccccgctcg cccccagcga cgtacccatt atacgctgcg tgggcctcaa ctacgctaag 240
cacagtgcgt tgtga 255

<210> 1841
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1841
ccacggcgag cccgtggtga tcccgcggat cgcgcagaac gaccaagcgg actacgaggg 60
cgaattggtc tgtctcatcg cgttctttct tccatccacg atctcctaac taggctgcag 120
tgcctcgtca tcggcaagga cgccaaggat gtccccgtgg agcgtgccct tgagtatgtg 180
gcggcgtaca cggccgccac gacattcttt tcaccagccg gccgcgatca aaga 234

<210> 1842
<211> 369
<212> DNA
<213> A.fumigatus

<400> 1842
ctgtataggc tggcgcaatg gatcaccgac gataagcccc gcgtgatcct catcgaccgg 60
acctgggatt tcatcggcac cgagggcacc accacgggca aatgctgcag catgccctcc 120
acgacggtct gcagcggcgg aacctccaag ggtcaggcct ggattcagga tcactgtgat 180

ggaggatcct gggtgtcgtg caagtacgac aatgccgcgc tgacgcccct ggacgtgggc 240
tcgaacaaga gcatcgtggg tgtcggcaac aagggtgtca tcaagggcaa gggtctgcga 300
gtgcgcaacg gcaacaagaa cgtgattatc cagaatattc acattacggt gagcctctgc 360
atcccttga 369

<210> 1843
<211> 399
<212> DNA
<213> A.fumigatus

<400> 1843
tcgaagcaga atctgaaccc tcaatacgtc tggggcggtg atgccatcac cctcgacaac 60
gcggacaagg tctggatcga ccacaacaag gtacgtctac gtcttcctgc ccccacggca 120
aagatgactc tgacagaaac tggcagatct ccctcatcgg ccgccaattc atcgtcagcg 180
gctggggcaa agcgggccac gtcaccatct ccaacaacga attcgacggc cgcacctcct 240
ggtccgccgg ctgcaatggc aagcactact ggactctact cctcctcggc gagcaggact 300
actacacctt ccaaggcaac tggctgcacg acgtgtccgg ccgcgccccg cacatgggaa 360
ccgaccacac caagtcgcag atcttcttcc acggcgtga 399

<210> 1844
<211> 540
<212> DNA
<213> A.fumigatus

<400> 1844
tgccatcacc ctcgacaacg cggacaaggt ctggatcgac cacaacaagg tacgtctacg 60
tcttcctgcc cccacggcaa agatgactct gacagaaact ggcagatctc cctcatcggc 120
cgccaattca tcgtcagcgg ctggggcaaa gcgggccacg tcaccatctc caacaacgaa 180
ttcgacggcc gcacctcctg gtccgccggc tgcaatggca agcactactg gactctactc 240
ctcctcggcg agcaggacta ctacaccttc caaggcaact ggctgcacga cgtgtccggc 300
cgcgccccgc acatgggaac cgaccacacc aagtcgcaga tcttcttcca cggcgtgaac 360
aactacttcc agaatgtcgg cggacatgcc tttgacgtcg acaccaacac ctgggtgctg 420
ctcgagggca actactttga gaacgtcaac acgccgctga ccgataccag cctgcgggcc 480
ggcggcaagc tgtacaccac ctcgtcttca ccacgggact ggcaggtccg agtatgttaa 540

<210> 1845
<211> 600
<212> DNA
<213> A.fumigatus

<400> 1845
ggtccctgcg tttggagctc aacgcaattc ctgccgttgt tctcggacat gttcttcgcc 60
gacaaggaga gattcatcga cagtattgag aaagaccgac tgctcaccat tgcgcgctcc 120
gcgttcaaca ttgtgacagt attcctcgca tcgccggctc tggtcacccc taacctccct 180
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gcagtgattg gatctatgat ctcatggtta gagagcagtc gggggcaacc tcaatcaatg 420
caagctccag gaaacactaa ggacgccggg gacgctcata tgttaccaca accaacaccc 480
gaagatgccc ctcgacccac agagtctgca gcggtggccg aagattggga tgctacagtg 540
cggcagcaga tgttgcaaga tttgacctgg ataggactac cagtggagca gcagctttga 600

<210> 1846
<211> 681
<212> DNA
<213> A.fumigatus

<400> 1846
atcaatatcc ccaagatgat tcgcgcatgt gaggaagcaa atctctggcc agagctagtg 60
ttcttgtatt gtcactacga cgagtgggac aacgccgctt tggcaatgat ggagcgtgcc 120
gcggatgctt gggagcacca ttcattcaag gatatcattg tgaaggttgc caacctggag 180
atctactatc gtgctctgaa cttctatctg caggagcagc ctctgcttct tacggatcta 240
ctccaggtct tgactcctcg gatcgatgta aaccgtgttg tacgcatttt ccagagctcc 300
gacaacattc ctcttatcaa gccgttcctc ttgaacgtcc agtctcagaa caagagggcc 360
gtcaatgatg ccatcaacga cctcttgatc gaggaggagg attacaagac tctacgtgac 420
tcggtggaca actatgataa ctttgatgcg gtacagctgg cgcagcgtct tgagaagcat 480
gacctcatct tcttccgaca gattgcggcg aacatctacc gtaacaacaa gcgctgggag 540
aaatcaattt cgctttccaa gcaggacaag ctgtacaagg atgccattga gaccgcggcg 600
atttctggca agtcggacgt ggtcgaggag cttcttcgct acgtatgttt atccctcatc 660
gatctctttt tctcaccctg a 681

<210> 1847
<211> 270
<212> DNA
<213> A.fumigatus

<400> 1847
acgcgatgcg ctatgctgac tctccaaagt acgaatatcg gcaatgcaaa gctcgcgggt 60
ctgcagaagg atctcaatat gaccaatgac caatataacg acagcttgac cattttcttc 120
atctcgtact cagtcttcga gccgatcacc aatgtcctgc tcaagagatg gagaccgagc 180
aggttcatac ctgctatcat gttcggatgg gtagatgcta cttgtacatg tagcaagttc 240
gagctaatgg aatctagggc ctatgcatga 270

<210> 1848
<211> 354
<212> DNA
<213> A.fumigatus

<400> 1848
tggcggtgcg tggcttccta cagctccttc atcgatcagg ctcctatgcc tgttgtcatc 60
cgatatgata ttaacaatca gcaggtcaga tggtttctgg gactcaccga ggccggtctc 120
ttcccagggg tcggctactt cctctcctgc tggtacaagc gaacagaatt cggtgtacgc 180
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gccattgctc aaatggatgg agttggcggc aggccaggct ggtcctggat tttcatcctc 300
gagggtctgg ctaccatcgt taattggcgt cctgtccctt tggatagtcc atga 354

<210> 1849
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1849
ttggtcgaga ctctgcttta ttttgcagat ttcaagctca ctgccagtgc tcaactgcct 60
tttaaagttc ccaccgcttc gcccctagcc catcgccaac agaagagcgt cagccaacct 120
cgcgccatct tcctcacaag acctaactgc caacagaatc gtatgaaagg ctccctccag 180
taa 183

<210> 1850
<211> 747
<212> DNA
<213> A.fumigatus

<400> 1850
gacgcatact ttcttatccg gcggctagga aatgatctga atatgtgcgg ccctcaccta 60
ctcaaccgca tatcacgctt catcctaatc tggaacgtgg gttccttcat catcaccatg 120
atcgtcctcc tcgccacaaa cgaccacaag cagcccgctg cattcgtttt ctccgagttc 180
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ctcgccctgg atgctattga tttcggcacc acgactggct tcgaaactgt cattgcaatc 720
gcaacagagg gattctgtat gtcatga 747

<210> 1851
<211> 360
<212> DNA
<213> A.fumigatus

<400> 1851
tcctctatag atttatcata cgcaatggcc ctctttagcc gtctccttgg ctatgtcact 60
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aatgtcctgg ggcttctgtt tctgctcttc gcatccatca ctttcaattt accgacgcaa 180
taccccgtta atagagactc tatgaactat acttcagccg cgattggcgt tgttgcgctg 240
atcagtctgg ttacctggtt tactaccggc cagaaacact tcactggacc gggcggcatg 300
agcgtgttgc atggacgaga ggaggtggct caatcggagg cagaggtaga gaagaagtaa 360

<210> 1852
<211> 222
<212> DNA
<213> A.fumigatus

<400> 1852
ggtaaaatag ctctctatct gaatccccac catggagatc catccatgat cgacaatggc 60
ctgaggccgg aacggctatt tttcgaatct tacaatttcc atgattgcgc cgttcttgat 120
atcgagtcag tcaattacag tgtaggtgct ctagctctag ttagagaggc catttctacc 180
tgtccatctt ttgcaggcat catctgtcat ggtcttaggt ga 222

<210> 1853
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1853
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ggccaaaagt atggatccta cctacaggca tacatagtta gacagtttct tctgatgtat 180
ctcaatcact gtgtaaggta g 201

<210> 1854
<211> 213
<212> DNA
<213> A.fumigatus

<400> 1854

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ctgtctcttc aggtgcgatt cagagtctta cggttcgagc ttaggatcca ttttccaccg 180
tgtgatcaag cagtttatga tccagggtgg tga 213

<210> 1855
<211> 231
<212> DNA
<213> A.fumigatus

<400> 1855
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tcacttctta gcacgttcat tcattattgc actacttcca gcgcgcaatc atggctgaga 180
ctcaacgtac gtactgcccc gtccagtgtg gggttctggg cctcaggatg a 231

<210> 1856
<211> 582
<212> DNA
<213> A.fumigatus

<400> 1856
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ctgtcttcac caaggggccg aaggtccgcc aatggttggg gc 582

<210> 1857
<211> 237
<212> DNA
<213> A.fumigatus

<400> 1857
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ttcttcgttg tcggatcagg actccgagat gaggagacca acttcacaca agtgtaccgg 180
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<210> 1858
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1858
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cctcagattg ttaactggag tgtggacatt gaggattggc tttggggcga taccgaaact 180
ccggaaagac agctggaggc tttctatcga gatgtgagg 219

<210> 1859

<211> 213
<212> DNA
<213> A.fumigatus

<400> 1859
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caaaccttcc atccttccac tattgtcagc gctggcaaga ggtcttgtaa gggagctcac 180
tttcgatgtg tattagagtg gagggcaatt tga 213

<210> 1860
<211> 609
<212> DNA
<213> A.fumigatus

<400> 1860
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tgtacctga 609

<210> 1861
<211> 711
<212> DNA
<213> A.fumigatus

<400> 1861
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cgtcttattc atgggcaaac gggccgaaac cttcattcgc atgccatccc agctcctatc 480
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cactgggcag tggaggtcgt ggatgatgtc gcgtcaaggg accgaagcag gatccgaacc 600
ctgaacactg cattccgcct gagacacatc gttctgggct gctatctgcg tgccggcaac 660
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<210> 1862
<211> 669
<212> DNA
<213> A.fumigatus

<400> 1862
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tacgatcagt tggcctcaaa catggaatca cccacaccgt tcgaatcctt ctcttttcgg 120
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ggtgtacctg tctgcgtctc gccttcacat accatcacca acactgagtc tctactgact 240
ctggcttcct tggtcggtcc tcatgttgcg atcttccaag ttcatgcaga catcatcgac 300
gactggtccg acgagacggt ccgtcaattg accttgctgg cgaagagaca cgccttcttg 360
atctgggaaa gcggccgaat cctcaatgct accgtcgacg ttgttgggaa aacaacgacc 420
gagtcaagag aagtgagaaa tgagttggtg gatttgataa ggaaaaaata caccaaaggt 480
gtagtcaaag cagcctcgtg ggctggcatt gcgacggcct gggcctctgg tgtcactgtc 540
gggaaccaag aagccgatat cttgatccca acattgaaag ccgctgctcg agaagcggtc 600
gctgacagtg tgcaaaccat ccggacagag atcacggctg tcaatgctcc gactgagtcc 660
ttggtgaat 669

<210> 1863
<211> 891
<212> DNA
<213> A.fumigatus

<400> 1863
gacaaatgcg atggccttcg accgtcttgt tccgcctgcc gagcctctgg ccagacatgt 60
tcatacgatc cacatgccaa gaaacgtggt ctgccggaag gctacgttcg cggtcttgag 120
aagctttggg ctctgtcaat ctgcaatata gatggcttcg aagatactat gctggccctt 180
ttgggcacaa cacctgactc tgctggccgg agggataaac ttttgagcat gtggatggac 240
gatagtgctt cggaaacgtt gcacgaatcc tggaaaacca gccgcctcta tggtacgttg 300
gagaaaatgt tgtcacactc cgatatgtct tcatcgcacg gttcgagcaa gaggccacgg 360
gacgacaatg ataccggtgc attagattcg acgagcggat gggggttcag acttgattgc 420
agttctacac ctttggcgca tgatgcgcca cgggtggtaa gactttcctc ttcccaaaat 480
gtcaaacgac ctcgactgtc acagttgggt gacggcgtgt cggtatcgca gaccaccggc 540
agaccgcaac ctctgaaact tcctcctcaa acatcgcagc tgttggacac atatttcgcc 600
gtcacgcact cctggttccc gatcgtagcg aagcataata tccttcgagc atcctatctt 660
tatgcaagcg ccccgctgtc tgttgagagc atgtcacctg gttccggcga acacgccgca 720
ctatgggcag ttcttagcta caccgtttct cactcgcgaa ccaatgcacc ggatggggct 780
tttgatgctc ttgccaccac aaacgaatat taccccattg ctccgaggct gataccttcc 840
gaaaacggca ctttacgacc ttgggcctgt gcaggcgctg ctggttgctg a 891

<210> 1864
<211> 336
<212> DNA
<213> A.fumigatus

<400> 1864
gcctgccttt gtcctggtag aaggaagaga aaggatacca cgtatgtcga agagcgatac 60
catcaccatg cgcacggaag caaacccgaa gggcgtacct ggttaggcac tcggccatcc 120
gcctcagaag gaggcgaaaa gaagtccaag tggggaagtc tggcgactat tggcattata 180
ctcggcgctc ttgcattgtg tctaggcttg aggcggcgga aggacgaaga cgagaagagt 240
gattacactt accccagttc ttattattat tactccgact actacacaag cgcaagtatg 300
tctcccttgc tcctcagatt agcagtcagt agctaa 336

<210> 1865
<211> 840
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (815)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1865

tggcacggac ccttccagcc ccgtgtgaag acggcacacg tccgctcgcg tctcgaagat 60
ctggacatca aaacgattat tccctatgtt gtcggtcata ccactcacgt tgtccaaagc 120
aagcgcaata cggccaaagg tctacaggca ctggtgaacg ggaaatacat agtacaagac 180
tcatacatcg atgcacttgt atatgcggca actccgagtg atttggagac gttggagtca 240
ctgtcgcccc tggaaactga tttcgacgct gcgtggccgg acccgacgga gcatcttcca 300
cccccgggaa aagaagccgt ccctcggccc gccgaggcat ttgtaccaag ggccgaccga 360
atcaacatct tcgaggacta tactttcgtt ttctgggatg cctcgcaatt cagcaacctt 420
caggatccga tcagcaacgg gcacggaaaa gcactgctat atccgctaga aaatggggta 480
actactgctg aggagattgt ccaatttatg aagaatgcag ctgggcagaa aggccttggt 540
ggggagaggg ttggccgtgg aggggtagtc cttgtccgat ttcgttccaa gggcgaatgg 600
gagaaatggt caattgaatt aagcaaccaa gtcgctctga tgactgatca gcgagttatt 660
gagcagaacg aattcctcga tgccattctg gcaaatgatg cgtcctgcct gtgccagcct 720
ttgcccgaag cagagtcgag tcctgaggtt gggcgaacac caacatcaca gcccccaacg 780
acccccaatg aacacgttga ggtgattggt gattnccaag tgataaaggg gggcgagtga 840

<210> 1866
<211> 276
<212> DNA
<213> A.fumigatus

<400> 1866
tgtgtattgc gaggagagtc tgaaccccgc gttttcgcac atatgggtat gtttggatca 60
tgcaactttc tcaggccatg ttctgacaat caccagtgta tggcagtgga gtgtgttgct 120
gtttcgattg caatgtactg cctgatccag ttctattacc agatcaagga tgatatcagc 180
cagtattcac cactcctcaa gatcgtctct atcaagctgg tgattttcct ttcattttgg 240
cagtccgtga gtcgagccct ttcttccgat tcgtga 276

<210> 1867
<211> 393
<212> DNA
<213> A.fumigatus

<400> 1867
agcagcgaca gtatgatttc cacccccgc ttctgcttac ccctctacac gcgcttggga 60
ctaatgtctg gtcctgtctt gtctagtatt attcggatct tatggatgat ccccatctac 120
tcccttgtcg cctggctgag cacctacttc tacaaaaatg cggtctacta cgagctgatc 180
ggcaacagct atgaagcgtt cacgattgcc gccttcttcg ccttactctg ccactacatt 240
gcgccggatc tccacagtca gaaggaatat tttcgcggaa tcacgccgaa gcaatggctc 300
tggcctatac cctggcttca gaaatgctgc ggcggggaga aagggatgtg gagggtaccc 360
cgaagcgggc tgacatggtt caacgtaagc tga 393

<210> 1868
<211> 528
<212> DNA
<213> A.fumigatus

<400> 1868
acccctgtca cgagtgcctt tgcgaatact tccacagtct ctccattcgg ctcccttggc 60
gcatcaaaat ccaaggaaga tgatggacct accaaaccgg cggctgtaac ttctgcctct 120
gccttcgctt cgtcaagcct ggcagcattc gctgggtcag agcagtcgcc tttcggctcg 180
cttggagcgt ccactccatc tgtttttaag tcgccagccg cgtccgagac tgagaaaccg 240
gcggccgcgg gatttgcagc tggggcaaat acctcgggct ttgcggcctt agggtctggc 300
ttttcagtgt tcagcggtgg attcggtaca gctgctaaac ccgggggggct gactagcttc 360
gcttctcccg ctgcgcctag cccatttggc agcagcacta aggacaagcc attcggagca 420
gcagatgcag atgaagaaga ggaggaagag gatgaggcag aaactggtcc caaagaattc 480
gaggcagaga aacccgacga gaggttcttt gagcggcaga gtatgtga 528

<210> 1869
<211> 378
<212> DNA
<213> A.fumigatus

<400> 1869
tattgtgccc tatggactgc ttcagaactg acgccatttc tttctaccac agttgagaca 60
ggcgaggaac aagagaagac gtacttcagc ggcaaagcaa agctcttcca gttcacgaat 120
aaggaatgga aggagcgcgg cattggcaca ttcaaggtga atgtgagagt aactgacggc 180
caggaggaca aaaaagcggc tcgcatgatt atgcgagcgg atggtgtctt gagagtcatg 240
cttaacacgc ccctttcaa gggcatgaag gttggagatc cgtcgggcaa tgaacccaag 300
tccaagcaga ttcatctggc tggtggtcaa ggacggccgt actgtccccc tcctgctcag 360
ggtaaggcat tcctctaa 378

<210> 1870
<211> 453
<212> DNA
<213> A.fumigatus

<400> 1870
atggcgtgga ctacagatgc acagcaatca gcggatacca acaacgcgat gggactgggc 60
ggaggttcga atagccggtc gagcagccga ggcaggaaga ggtcattcga tgacgatgaa 120
gcggaaagtg atggcgagga acatggtcac agacgcaaga ggtctcgcga ctctacaagc 180
gaaggcgacg accagccacc acggagcgag aatgaccttc cgaggaagat cttgagccca 240
aagaaaaaga gaagtcgaga caagctcgat gaagacgggt ccggagaacg tgctacggag 300
aaggcggata cgaagatcga gaatatggaa tctgaacaga agcccgagtc tgaaggacag 360
cctgagaaga agcggcaccg tgacaattct acggaaagaa agccggtaag agttgatcgt 420
cacattgtat ctttggctgg gaaaggacgc tga 453

<210> 1871
<211> 219
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (121),(193)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1871
gaaaacgaat ctgggacggt gcgaaaccac agtatcatct actatctgct tgctacctca 60
gattccgctc tgtgggttag agaaatgttg ggcacagaca acaagtgtca agatgatata 120
nagtgcaagg gagaagatcc tgcccggtat ccaaataggt tattgaatcc ccgtggtggt 180
ccgggatatg tcnggcacga ggattctaat ggcttccaa 219

<210> 1872
<211> 228
<212> DNA
<213> A.fumigatus

<400> 1872
actagaaaga ggcttgaact agaaaacatc acactctgtc gatacggact gaattttatc 60
gcatggttga ttgacgtttc taagtcggcc gaaattcatc taggcgcttt ctggcctggt 120
gtgcctaaaa cgcggcgggt ggttttgagg tcatcacagt caaatgtcaa gcgtgaaaga 180
gatagcaaac ctcagaatgt tgaaagagcc tgtggttatt gcacatga 228

<210> 1873
<211> 285
<212> DNA
<213> A.fumigatus

<400> 1873
atggctgata ctctggcgta ctcgttcttc tcaaccaatt tccttttttca gtatactttc 60
aattccggta aatgtttggt atggatcatg tacctcacta cttggcatag ctgtatcatg 120
gcgcgaactc cacctatgct ctctttctct cacaataggt tcttcagcat agatcctgca 180
gcattagact cagcgagtag ctcaggagac aacatgaagc atgacacgga tgtggagtcg 240
ctggtttcca gcctcacttc catccttgcc tttggctctc catga 285

<210> 1874
<211> 222
<212> DNA
<213> A.fumigatus

<400> 1874
gtacttaagc acatgttggc gaatcaaaag ccactgctga gattatcaaa agcttgctta 60
gacatgtcta aggtaggctt caaaacctac gagcccagaa ggtctatgat taacgccgtc 120
tattatcgct atttccgcgt catgctcaag ccactgctag ggcgatccaa atcccacaat 180
gaatatcgcc taatgcaaca aggcgggcat gtctcactct ag 222

<210> 1875
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1875
atgattccct gggattcttg caagtactct tgtctaaggg gtcttcttgt agcagctggc 60
agattgggct caagcgccta taaatgtaat tctgtaccat tctcccaggt cggttttgct 120
tctctagaag ccagtcttga tagtatgacc ttgttctatt ctaagtcttg gggcagctca 180
ttgacacaaa gcatggtgta a 201

<210> 1876
<211> 438
<212> DNA
<213> A.fumigatus

<400> 1876
ggacactata ggttgatccc agatgccttc cctctgtcta ccatgatcct cttgggcctt 60
gccacaactg ctttcgacgc ggaacctgat tcagctcggc cagacaatgc ggatcagatg 120
acgtctcaca acctggcgca gacctgttgg cggaggccgg aggttgcccg cgcaggcaac 180
ccagaatcat ccagtgccta taactcggct tgtgcaatgg tgcttctgcg acagaaaatt 240
caacatgtgt cttttaacta ccgagaggac cttttgcgct ttgagcatct ggtagacaga 300
gctgtaagct tcagctttct caaccaacgc acatctcata gtcctcttgg cgaagtgcag 360
actgatctca tcctcaattt cctcccaggc gagccctcta gtcaccaaaa tttggaggat 420
atcgtcttca gccgttga 438

<210> 1877
<211> 591
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222> (16)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1877
cgacgtttga tagagngcgc tcgaacccgc ggtgaagact ttgaggttat caacccgctg 60
ttcctgctca cggccaagcc cgttgtctat cttgtcaacc tcagcgagaa ggactacatc 120
cgtcagaaga acgagtacct gcccaaggtc tttgagtgga tccagaagaa ctcccccggt 180
gatcctctga tccccatctc cgtctccttc gaggagcgct tggctgcctt cggcgatgac 240
gccagggcag ctgaggagtg caaggcctta aacaccaagt ccgctctgcc caaggttatt 300
gtcactatgc gccaagtcct caacttggcc agtttcttca ccactggttc agacgaagtc 360
cgtcaatgga ctatccgcaa gggcaccaag gcgcccgcgg ctgctggtgt gattcacact 420
gactttgaga agaccttcat tcaggccatt gtgtacaact acaccaccct gcgggagtat 480
ggcgacgaag ccgctgtgaa agccgccggc aagatcatga ccaagggcaa ggactatgta 540
gtggaagatg gtgacattct cctcatcaag gccggtgccg ctaagggcta a 591

<210> 1878
<211> 435
<212> DNA
<213> A.fumigatus

<400> 1878
gtcggtactg ccatctcgta ttggcgcttg aagcttgcca acggcatgcc cttcggtcat 60
agactctggt gcgatgttca ggtacgcgac tccatggccg cgtccaccaa gctggaacca 120
gtaggagagg cccctcgcgc gcccgagcaa caggcagagg cggctccggt cgatgacact 180
gaacgcacgg gaagtcaaat gatcttccct accctggaca aggagtcacc ggtcgggagc 240
gcccaccagg caatggttga agctcctttg actgcccctt ccgtgtccaa tccatccgag 300
cacgatatcc ttgaggacgt cgagactcta accttggacg acaccaacac cgagaccggg 360
ttcctgactg atgaagagta cgatgtcttg gatgccagcg accaagacta cctggaggct 420
cagtcacggg tctga 435

<210> 1879
<211> 645
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (221)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1879
tcatcgtggg caccgaagaa aggaggcatt aatcctggtc atcggtacga tcgagcgggg 60
gccaaggctg gcactgacca acgtctcgcg tacggtggcc atgcggcgcc ggtcatgtgg 120
actgctttcc atcccgcgaa gggcccggtt gatctaggcg atctgatgtt aagctctagt 180
ctcgactgga gcgtcaagtt gtggcgtgtg cggccacctg ntaccaccgc ccccgcaacc 240
tcggctgcca ttgcaaccac gcaagtcgtc tcacctatct tcgatctgaa ccgggaggat 300
gttgtttacg acgcccggtg gtcgcctcac cgccccggag tcttctctct cgtcgatgga 360
gctggcaatc tggaggtctg ggatctctgc tcggacaccg aagtcccagt cgtgcggacc 420
acgccaactc gaggccgtgg cggtatcttg acgcgaagcc ttaacaaggt ggcatgggaa 480
gaacgcgagg gcaaacacct agcaacaggt ggattggatg gtgtaatcac ggtctttgag 540
gtaggaaagg gcctgagtgg tactcctgag gaggtgccct cggacgaatg gacggcaatg 600
aaacggctgg ttgggaaatt ggagcagaga gatcgtgtga actga 645

<210> 1880
<211> 516

<212> DNA
<213> A.fumigatus

<400> 1880
agacccgaga gtggcaagga agaatcagtc gagaggatca aggaagaacc ggccgacgat 60
gacgctgacg tggatatgga gcgatcgtac aatgatattg aagacgaaga agacctcaag 120
gagcgcatca aaagggaaga ttctcagctc cagcaaatct ccggaaccgg actggaggaa 180
gaaactacat tggatcaagg gcttggtgcc acgttgaata tgctcaagca acgcggcctg 240
gtcaagccat ccgatgctgt tgagcacaac gcactcctgc gggctcgtca gcgtttcctg 300
cacgagaaga ttcaccttga aacggaggcc gagaaacgcg ctcggcaaca gcgtgaacgc 360
gaccgagcct ctggtaaact tgatcggatg tcggcccgtg agcgtgaaga atacgcacgg 420
tgggaaaaca agcaacgtga ccaacaaaga tgcacgacac atggcggaag tcttcaacaa 480
ggaatacaag cccgatgtac aactcaagta cgttga 516

<210> 1881
<211> 528
<212> DNA
<213> A.fumigatus

<400> 1881
atatgctcaa gcaacgcggc ctggtcaagc catccgatgc tgttgagcac aacgcactcc 60
tgcgggctcg tcagcgtttc ctgcacgaga agattcacct tgaaacggag gccgagaaac 120
gcgctcggca acagcgtgaa cgcgaccgag cctctggtaa acttgatcgg atgtcggccc 180
gtgagcgtga agaatacgca cggtgggaaa acaagcaacg tgaccaacaa agatgcacga 240
cacatggcgg aagtcttcaa caaggaatac aagcccgatg tacaactcaa gtacgttgac 300
gaatttggtc gtttgatgaa ccaaaaggaa gctttcaagc atcttagtca ccagttccac 360
ggcaagggta gcggcaagat gaagactgag aaacggttga agaagattga agaggagaag 420
aaacgcgaag ccatgagcgc tttggacagc agtcaacaca ctggcatgaa caatgctatg 480
ggggccacgg ctcggaaaaa ccgtcaagct ggtgtgagat tgggatga 528

<210> 1882
<211> 219
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (186)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1882
ggagctgatt ctttagtcaa tcccgcttcg gatcggatac tgaggagctt atttgttaag 60
gtttctggcg aggcaaatag cgtgaatcat aaccctcact atggaagact ggactccaag 120
cttaaagttg ttacccctca tcagcaatgg caggagcgga tgctgactgt gtctatcagc 180
ttggantacg aaacccatca cacaagatgt tgtctatga 219

<210> 1883
<211> 576
<212> DNA
<213> A.fumigatus

<400> 1883
gctacatggt catgtccttc agtcgtcctt ctttttgttg ctgacagagc caggccccgg 60
tcaagcccta tggaggtagt caacggcgtt gagatgccct cgttccgcgg tgacaacatc 120
aatggcttcg ctgccaccgc agaatctcgc aggccagacc catctcggct tgtttccgcg 180
tactttcact ccgctgccac gctcaactac atgcgcgcct cactctcatc tggtctcgcg 240

gatcttcatt ccccactgga ttggggactc ggtcacgtca ttgagccctc aatcaaagag 300
aagtacgagc gcatcgtcaa ccgagtcaaa gacgcgctgc gttttatgca caccgtcgga 360
atcgacacag accgaggcgt cgagaccgtc gacgttttta ccagccacca aggtcttctc 420
cttgaattcg aacagagttt taacccgctt tttgtgcaac ccacctacca caactttcac 480
aacccacaag gaagcttatt acgccacctt ccggaaactt tcctttggga tcgggggaac 540
gcaccgcgcc caacttcaac gggggcccat tgttaa 576

<210> 1884
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1884
gcttccttgt gggttgtgaa agttgtggta ggtgggttgc acaaaaagcg ggttaaaact 60
ctgttcgaat tcaaggagaa gaccttggtg gctggtaaaa acgtcgacgg tctcgacgcc 120
tcggtctgtg tcgattccga cggtgtgcat aaaacgcagc gcgtctttga ctcggttgac 180
gatgcgctcg tacttctctt tgattga 207

<210> 1885
<211> 294
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (285)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1885
gcaaggccat ttaaatattc tttgatctcg ttgtttcttc ctattgatac ccatttcctc 60
tgcactacca ccgtcctcat cataatggct tcgtggcttc agattcccaa gaactcgccc 120
ttttctctgg cgaatattcc ctttggaatc atttcctctg caaagatcac atcccctgtg 180
gctgcagttg cggtcggtga ctatgcgctg aacctgagca tcttcgcctc gtcgggcggt 240
ttctcgcaac ttcccgtcat ccagccccat ctcggcgtat tcagncagcc aact 294

<210> 1886
<211> 297
<212> DNA
<213> A.fumigatus

<400> 1886
acctctagga cggaagccgt caaaggtgcc ctcccggttg ggcagaactc ccctcagaag 60
gcaccctacg gactttacgc tgagaagctc tctggaaccg cttttactgc tccaaggcat 120
gagaacaagc agacctgggt ctacagaatc ctccctgctg ctgcgcatga gaacttcaag 180
gccgaagatg ccgactccta tcacaccagc atgactacgg agacgcacaa gatacatcat 240
attcccaacc aggtcagagt gttcacctcg gatagaccga gcggcttagc taagaag 297

<210> 1887
<211> 237
<212> DNA
<213> A.fumigatus

<400> 1887
cggcttcttg cattttcatg ctcacgaagt atttggttct taagaaggcc cgatagtccc 60
tctcagccgg acctgatcgt agtgtacctt cctttcaacg tgcccgtaaa tttgcagata 120
ttcgacatca tgcctgtcac acagttctct caccccgatc cctactcata ccagactggc 180

ttcgactcct atcatgagta tgagcgaaaa tcacttgcat cgatttatcg gagctga 237

<210> 1888
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1888
agcgacaaca cgagtagttg ggtggaacgc acattcagcg gcaagagagc ccaggattca 60
tcggtcaagg agtggctttg tggacctgat ggactcatcg agaccatgac tatcggtaac 120
tggtacaagc tcctcacatg gtcgacacct gtgtttcagc ttgtcgaagg tttctgcagc 180
ttgctggtca tacaagcggc agggcagatc acccgttggc tcgttaaccg cggcggacga 240
agtgatagct ggatggtatg a 261

<210> 1889
<211> 591
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (547),(590)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1889
atggatgcta acttgcactt gcagattgcc cttttagtac tgtccgcctc tatcatatca 60
agctctgtgt actttctttg gcgcgttctt caatttccgg agatatcgaa tgtcgatgct 120
gctttgatcg gtgtatcgat tacgtgtgct gtgattctgt gcgcctgggg tattggcagt 180
ggccgtggca accctgtcga aagctcactt ctattcgcct acgtcgtgtt gtgcatttat 240
cagatcttca ccgactacca gccgtcgttc ccagttgagc agggctcttc gccctctcag 300
accggcgatt tcccaccccc tccgcctatc atcatggcat cctactccac actcatgcat 360
gctttgtctt ccttgccttc catcatacat gcagctttca acgtaattac tgccgtcttc 420
agcgctgtaa caccctccgt cctgatttcg ctcgcatacc gtatcttcgt cctgtatgca 480
tccactcgaa taatcccagc tgttcgggaa tctggggcac gtgcactttc tcaagaagct 540
tctttanatg ataccgatgc tgccggttca ttcttgggat ttttgagttn a 591

<210> 1890
<211> 900
<212> DNA
<213> A.fumigatus

<400> 1890
tacttgacca acgcggaaat agaagtgttg cagaccccac tccaagaaga ttgtggaacg 60
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tgctctgacg gttctgtatc taatcatccg tgcaggaacc ttcgtaagat caagatcctt 180
cttcaagagt tcgagcggac aggaaagcac gtcgactact atgcgttgga tctatccctg 240
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cacggtcttc acgggaccta tgatgatgcc cttgcctggc tgagcaatcc ccagaaccta 360
cagcgtccca ctgtggttat gtctatggga tcctcaattg ggaatttcag tcgtgaaggt 420
gcagcagagt ttcttgccca atttgctcgg ctgctcaagc catccgatct gatgatcatt 480
gggctagatg cttgtacaga cccggacaag gtctacaagg catacaacga ttcaaagggc 540
attactcaga ggttctacga gaatgggcta ttacatgcga atgcagtcct tggatacgag 600
gcattccaac tttcggaatg ggaggtggtg acagactacg acgttgccgg gggccgacat 660
cgagcattct actcaccgaa gcagaatgtt acaatcgatg gcgtgcttct gcaaaaaggc 720
gagaaattgg tttttgaaga ggcaacaaag tatagccctc aacaacggga gcaactctgg 780
cgggatgcaa acctcgtcct ttgtgaggag cttggaaata gctctgagga ataccgtaag 840

ttggtccttg cctcccgcag cgctgttgta gcagagatgt atgggagaag cgtcgactaa 900

<210> 1891
<211> 801
<212> DNA
<213> A.fumigatus

<400> 1891
gaccgggggt gtgggtttcc tggggcaatg ccctcaaaac aaaccaccgc gtcgggcaac 60
gggggcaagc aaatcccctg ggcgcaaata acttctttcc ccgaagacac agacagcgac 120
gtcatcagac tcgatttcac cttttcgtac cacccctggt ccatcggcca gcaattgtac 180
ctttgcttcc cagacctcag tatttggcaa tcccacccca tgacgccctg cagcgtccta 240
acacccggcc gcgagcaaac acacacatac atcatccgcg cgaaggccgg cctgacgcgc 300
cagctcgctc ttctggcccg aagcgaccag ccctcaacat ccatcgtgct ggccggacca 360
tacggccagt ccatcctaag cactgaactc ctgcaaaagg acgtcaacat cctctgcatc 420
gcaggcggca caggcgtgac tttcgtcctg cccgtcctac ttcaactatc ccgccagaca 480
ggcttcgcgt cccgaagggg tctagtcgaa ttcatctggg tcatccgccg caaggcagat 540
atggagtggc tccagtccga gatggacgag ctggtggctg ccgcggagct gtgcgccaat 600
ttccggagta gggtgtttgt cacgcgtgag ggcgacgcca gcacccaggc caaagcgcag 660
gacttggaga agaaagtcct cgtcagcgac gccatgcagc ggactgagtc tactgcctcc 720
caagacgggg aggcgccatt taccgtgcaa tgcatgggct ccaactccgg tgacggcggc 780
tttgccaggg gtgtattaca c 801

<210> 1892
<211> 237
<212> DNA
<213> A.fumigatus

<400> 1892
tccccccaac attacgcgga ctttgccccc cgtgagacac gtaaggacag tccaaaaacc 60
agcgggattc tccgagcagc ttctaggcca attctctgca acgctggctg gtaccattct 120
agtgctcctg cgggtgttta cgaccagacg gatacggata ccaccgaaga ctacatctgg 180
tgtgaaggag ctgaacaaga gattggcgta gcattcattc cgcaaggaag tggctag 237

<210> 1893
<211> 480
<212> DNA
<213> A.fumigatus

<400> 1893
cacgccgctt gcgtacgctg ctgtcactgg ccagacgcag atggtcaaca tccttgttgc 60
gcagccgggt gtagatgtat ccccattgac ggttggggaa tgacgccact gcactacgcc 120
gctgagaatg gacatcggaa tatcgtgaga ataatcctcg atagccccgg gactaacgca 180
tggcacacca gcatatacga taagaccccg ctggcgcttg cggctgaaag aggacacctt 240
gatatcgtga aatttttgct ggactcgagg cagcaggtcc ccggggatgc agtgtggaag 300
gctttgagcc ctgcgagtag tgcaagggcg aagtttcagc ttgggttgga gactttgcag 360
agccggggtg aggggatttc agtcaaagaa aggttgctga gggacacata ttcgcggcgt 420
ttgaacgagg tgcgtgatat attattatta ttctgtgatt atttggagcg tgggaattag 480

<210> 1894
<211> 1107
<212> DNA
<213> A.fumigatus

<400> 1894
ggcgcggctc cttccagccc cgtggtgaag actaagacca tgaagcctaa cttcaagttc 60

gtcaagaccg tgcgagatga cgaggtccct acccatctca cagtgcctca gaagtacgtt 120
attctcagag gctacgagaa tgccatgcct gctcttctcg agtttgtgac gaaatatgtc 180
gaaggcgaaa aggagaatcc aaatcagcgc ccattcaagg caattgtcta tttcaactca 240
accgtgcaga ctaatctggt ctatgagaca ttccgcaaca tagtcgagca gcgtcatcat 300
ccgctacgcc gtgtccgtgt ctacgaaatc cattcccagc tgactcaggc tcggaggaca 360
cgctcctctg actttttccg ggctgctaag tctgccatcc ttttctcgtc cgatgtgaca 420
gcgcggggca tggacttccc tgatgtaact cacgtgatcc aagtcagtat tcccagggac 480
cgagccacat acattcaccg tctgggtcgt acggcacggg cgaacaagac tggcgagggc 540
tgggttctca cccaccgcgg agagctgcct gagttcctca agcaactaga aggcattccg 600
ctcaacctag acaaggagac cttcgcgacg gctacggtcg atatgaccaa gcctgaactg 660
gaccccaagt cccccgcaac tagattcatc caggagatta aggatgctgt gagagaagtt 720
cccgaaagtc tgaaaaggcg agcatacacg tccctattgg gccccttgag aggttatttt 780
gctcgcaagc aggatctgat ccaggccatc aacaactgtg tcgtgcacgg ctatggcctg 840
cccgtacctc cccaactgag tccgacctta gcccgtaatt tgggacttga tcgagtacct 900
ggtgttcgta ttgcgaacta ccgcggttcc agcgacaaca tgtcgaccag acctgattat 960
cgcggaggcg atcgcgatat gtgggccagt aactctcgcc gtggccgcga gttcaattct 1020
gaccgccgtg agtcaaggtt tggcaatcac cgcaacgccg atgatttctt cggaggccgc 1080
cggcgtgcct acagagacga ctactag 1107

<210> 1895
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1895
agctcatctg cacatgctga cggctgcagc tggcccgaca tatcggcaca gctcctgcga 60
tatgttgccg accgcaccgg gatcctctct tttgccaatg tacctctatt atggttgttc 120
gcaggcagga ataacataat ttatctggcc taccggatgg aagcttttcg aacctttaac 180
atttttccaa tc 192

<210> 1896
<211> 198
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (144)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1896
gcgagctgtc atcatggctg tcaacgtttc ccgtcattct tcaacatagc tgaagcatat 60
ctacaagata gcagctgcga tgaaaagcgt actgagtctc acttttgctg cactggctct 120
tgccaggtcg aattccttct gtcngtgcag accccacgag cccttgtggc ccttctcaca 180
agaatggaat gcccttaa 198

<210> 1897
<211> 237
<212> DNA
<213> A.fumigatus

<400> 1897
gaagcaatta ctatcactaa attaggggat ccatacagac aagtcgaatg gccggtggcg 60
tcgatggtat acgttagccg ctggatacac agatacgcag tatcgcagat gatccttgcc 120
tgtgtctctg acatggttgg catttggaca ctcatgggac tagaaacact tgtggatgcc 180
attctgaccc tactgtacaa ataccgccgc acaaacttgg gataccctg cggatga 237

<210> 1898
<211> 486
<212> DNA
<213> A.fumigatus

<400> 1898
actgttgacg caactgagga agttcagagt actctgtata tagcttcatc atctcagtgg 60
ttccctctcc ctttagcctt gggaatatct ccccgcgcgt acaagatcaa acagacaagc 120
atgacatcgc cggcatatag ccatcacttc tccatcaaca atctcccctt tggagttgca 180
tcctcatcgc agcatcctca accgcaatgc gtcactcgcc tcggcaacac cgtcatcttc 240
ctcggagacc tgcagcgagc tggtctgttc cgcgaggtca ccagtctccc aagaggagta 300
ttcgacaacc gcactctgaa cgccttcgca gccctcgata agcaagtcca caagcatgtg 360
cgacaagcgc tgcaatctgc cttgcaagat tccggagtca agaaactgcc gataggaagt 420
acggaaccga tcactgccgt ccggatgcat cttcccgtct caatcccagc atttactggt 480
aagtaa 486

<210> 1899
<211> 423
<212> DNA
<213> A.fumigatus

<400> 1899
catctcgcag acttctcttg cagcctcaat cacgtcaaaa acgcaggcag ggcaatcctg 60
aacgacgaca ccccgccacc gggtttcttc cacttcccca tcggctacgg cggccgcgca 120
agcacaatcg tcccctcagg gacccccatt acccgacccc taggccactt ctatgatcga 180
tccgcaggga tcgagaaaaa gaccgtggcc tacgggccct cacaggcaat ggactacgag 240
ctcgagatcg gtgttgtagt cggtacgccg gtgccagcgc accgcggtct agacgccaca 300
gacgcagacg agcatatctt cgggctggtg cttctgaacg attggagcgg tgagccacca 360
cctccgtttc ggagatatgt attcaccacg gggctggaag gatccgcggt ggtgcaaatg 420
gga 423

<210> 1900
<211> 1029
<212> DNA
<213> A.fumigatus

<400> 1900
tcgactacgc agactcctcc ctctgtctcg actcgcatac aatcccgtgt agatccggca 60
gcgcagaagg cttcgaatcc acaatctttg acatctacgg cgcaaaatca attgaataaa 120
tcaaatacaa ccatggagaa cacctccggt tcggcgacac ccaagcccag agcggatccg 180
tcagacaagc caaatcggcc agtccaggtg gcatcgccta ccgatcagaa tggatctcag 240
ggtgataaaa agaggaagtt gcccgcggag gagaatgcgt ccgaaaaatc gcagcctgct 300
ccagaccgcc ccgtgtccaa gcggaagcgc atggaagaac gacaccaaaa gctgcggaag 360
cgcggtagaa cacctccttc ggcgtactct cgccgtgacg cagaagagac atcatcagct 420
gccgatcgca atggtccaac ttgccgatgt acctcacccc ttccgcctcc acggtctcat 480
acaccagagg accaacctcg gcagcgcaag cggcccggtg gtggggctcg gatgggactg 540
gtagatcggg agactttgcg ccggagacaa gaagaaagag agcgtgcgca ggttgaagag 600
gcgatgcggg cgtcccagag ccgcggggtg gcagatgttg ttcgtcaaca ctacaacgca 660
gtgccacagc gcggaaggga gtggcggaag acggaaagta agatcaaggg cctgcggagc 720
ttcaacaact gggtcaagag tacccttatc caaaagtttt ctccggacga ggaatttctt 780
gcgcggttca acggcaccaa ggaatgggct gaagacggcg gcgtgcctcc ggtagaggaa 840
aagcgacttc ttgtggtcga cttgggctgt ggcaagggtg gtgacctcgg gaagtggcag 900
ctggctcctc agccggttga tttgtatgtc ggtcttgacc cggcagaggt atcaatcgtt 960
caagctcgcg aacgctacaa tgggatgaat cttcaccacc gggctgcaag gagacgcgta 1020
caggggaa 1029

<210> 1901
<211> 684
<212> DNA
<213> A.fumigatus

<400> 1901
aatgttcagg tctccttcaa ttatgtctct gcatcatcaa aggcagccgc agatgctctc 60
gtccaggaac ttcgcaatga aaacaaagag gccctcgcca tccaagcaga tatgactgat 120
atagatgccc ctagtcgtat tgtccaggcg actctggccg aattcaaaac agaacaaatt 180
gatatcctgg tcaacaacgc cggagcgggg gacaaccggc cgctggagga ggtgacggtc 240
gatgtctatc aaaatctgat ggatgtgaat gtccgcgcgg tgattttcat gacgaaagcc 300
attctttcgt atattcctcg taatggccgc attattaacc tgtcctccat ctcggctcgg 360
ggtgggtatg ccacacagtc ggtctacgcg gccaccaaag cggctgttga gggcctcact 420
cgagtctggg ctaccgagct ggggcacaag tacggggtca cggtgaatgc tatcaatcca 480
ggaccggtgg acacggacat gtacagagca gcagggccag tgcacctggc gcgcatggag 540
gagcagaata aaaaggttcc tgctgggcag cgatgtggca cggttgatga tattgcagat 600
attgtgactt ttcttgcgca ggagagatct agatgggtaa caggagacgt aatttgtgcg 660
aatgggggca tgttatatat ctga 684

<210> 1902
<211> 270
<212> DNA
<213> A.fumigatus

<400> 1902
gaagacacca ctatgtcgct ccaagggaaa gtcgctattg tcaccggggg ggcccgaggc 60
attggagcag gaatagttcg cagtctgagc aaggaagggg caaaggtgag acattcgtct 120
gactgttacg gccgcaatat caagctcact gataaaatgt tcaggtctcc ttcaattatg 180
tctctgcatc atcaaaggca gccgcagatg ctctcgtcca ggaacttcgc aatgaaaaca 240
aagaggccct cgccatccaa gcagatatga 270

<210> 1903
<211> 627
<212> DNA
<213> A.fumigatus

<400> 1903
attgactctg agcctgtgaa aaaggcagag aaacacagga aaggatcaac ctcaaatgac 60
tcaactgcag gaaaagcgct caaacgtaaa cgggacgggg ataacaccca gaaggatccc 120
cagttacaag agtatctttc cgtaatagaa cgtccctcga agactaagac gtgggccaat 180
ggtgatgact ttctcaacac aattcagaac cagccagcga caagtgaact gcgggaagag 240
cagcgcgatg ataccagtga aaaagttgag gagcattctc acaagcagcg gaagaagcca 300
agagtagatg atgtaccaaa ggcggcccat gatcgagaac ctgaaccaat ggtcttggac 360
aagactgaag aagagcatga gagagcaaat gcagatggtc aggttgaagc tattcccccc 420
acacaagaag aggcagagcc agtgtcggat gccgattggc ttcgttcgaa gacgagtcgt 480
cttctaggtc tacttgacga ggacgagcag gctgagttcg actctacagc ccagcgaaaa 540
cccgatccgt cgtcagagcc agagactgtt tcgaaacccg gtgctcaaca cttcttacac 600
gccgggcatg gaaggacacg cgctccc 627

<210> 1904
<211> 369
<212> DNA
<213> A.fumigatus

<400> 1904

gacacaatca tggagaacac aagagtgttc gtgtctggcc ttccgccgac atttacgaat 60
gatcaattga ggaagcattt ttcaagccgc ttccagatca cagacgctca tgtacttccc 120
aagcgcagga ttggtttcgt cggcttcaaa agctccgagg cagcccaaca agcggcttct 180
tacttcaata aaacatatgt caagatgtcc aagatctcag tagagattgc taagccggta 240
tgtcattttt tgcgaacaac cttgatattg gttcccatgt tcttctgtca ttttcatctt 300
cacccgctga cttgctgcaa agttggtctt gagactgacc ataatggtag attgactctg 360
agcctgtga 369

<210> 1905
<211> 225
<212> DNA
<213> A.fumigatus

<400> 1905
tcccaaagaa cgaatataaa agcgttcaga ataacatgtc ccggttctcc ccccgcccaa 60
caaacggtgc cttgcacggt ccgcgattcc aacccgccca cttggtcccc cccgccgtca 120
atggcaaacc caatactgtc ctctctgcag gaaggcttcg gaaaatccgt gaaccccggc 180
caaagaactt ccaaaaagct tgggcaggag accaacctgc ctaac 225

<210> 1906
<211> 861
<212> DNA
<213> A.fumigatus

<400> 1906
ctgttacgaa ggacgttttg cccacgattg tttcacctgc agactcccca acttgatttg 60
ttgttcaagt cagtttggat tggcttggcg ggaattgacc ggaagatttt cggagcgtct 120
ctcataccaa agatttgcga gtgcttgggc ttgacggaga agaacattcg gctgacaaac 180
gacgtggatc tgctggtggc cgctgcgact tcccaccgcg actgttcatc tgcagtcgtc 240
gtcattgctg gaaccggcag cgtcgccatg cgatacaacc gaagtgtcga tggcagtgag 300
tactctcgag tcgctcgatc cggcggctgg ggtcacttct tgggtgacga aggaggcgga 360
tatgccatcg gattggaggc gatcaaatac accttgactg ttctcgagga aatgagactc 420
ggcatatgta ctgaaccatt ggggctgttg gagcaggcag ttctaaaacg actgggatgt 480
gccagctgcg gaccaaagca gattgatctt ctcagtgaga tcctggttca acagcacaaa 540
cagacgatca aagctcgtat tgcaggtatg gccgaagtgg tgctcagcct gaacggacag 600
aacgacacgt cctcggccat tgtcagccga caacttgact acttggcaag tcggactgta 660
ggacgtttgt tggatcctgc ttgtgctgga tacattccta cagaacattc cggtctgatt 720
ctttccggca gtatcctcaa caatcaagct tatcaggatc aatttctcaa tgtgcttgcg 780
aagagcgggg ccaagttcgc ctatgtggag agagtatctg atgcaggcct cctgggcgta 840
cggcatctga catcgccttg a 861

<210> 1907
<211> 291
<212> DNA
<213> A.fumigatus

<400> 1907
ccagctatac aaagcccaag gtccaccctc ctcttcagcc agggagcaca ccttggagag 60
gaaatcgacg gtatctctgt atatcttgac tttgagcatc agccgagtaa caatgcactg 120
actgagctag gtttgaacct gaccggctgt gtgtggacag ttgatcagga gactcataat 180
acggtgaccg tggaattcta tgaccgagaa ctacaccgtg actttcactt caccgacccc 240
tatctctatg accgcgcatg tctcagtatg gaacattatc cagctgtgta g 291

<210> 1908
<211> 195
<212> DNA

<213> A.fumigatus

<400> 1908
cgattcctag acgagaacgg aactttgttt tcgaataacc cgaccgatgg cagtcccgct 60
actatattct accgccctca tgagacctgg acaacgcgtg cggattggcg aacacagtta 120
cctcaaggag agttgatcag aggtaggcac tgtgagcccg actcattcaa agactggcgg 180
ctgacggaga tatag 195

<210> 1909
<211> 405
<212> DNA
<213> A.fumigatus

<400> 1909
gttcctattc gcggtgctcg gcgcctgtgg agaagacagg ccgggaatgt cctgtccgag 60
aatggccggg tcgtcattac ttatggcggt gggcacacca tgagcaatca tcgccgggag 120
agggtgatgg aggatgtccg tcgccaatcg caacacttcg ttggagatgg ggcatacttc 180
gaccatgacc gccttttcaa tcacctcgtc gatgagggtt gggtgcttgt acaaggagaa 240
cccatggccg atgcggcggg agttgaagag aatggcgtcc accaaattgt agtcggtcga 300
gttcccgtct cccagggtct caccggcgtg gaaaaagaag gggatagtca ggttcaggta 360
ctcagtctgc tcccggaacc agatcagttc gggggccagg tctga 405

<210> 1910
<211> 384
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (241)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1910
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acgggtggaa atccgcagcg gtggttccag cgcaaaatgg ttcacaccgg ccaggaggac 180
attgatccca atctcgagtt ctggtggaat gtgatgatcg aggagattga gaagttccag 240
nccaccgaga aggggaagaa tttctggggt gcccgcgtca tctggtccga cactcgaagc 300
aagaaccggg agaagatcac ccagagtaag tctgctttcc gagtcactat acggggaaac 360
ctgactaacc ggtctcaggc atga 384

<210> 1911
<211> 510
<212> DNA
<213> A.fumigatus

<400> 1911
ccggtctcag gcatgaagat tgccctcgag cgcaagcaaa ggttcccgga gctgttcagc 60
ggctacgatc tggtcgcgca ggaagatctg ggccgtccgt tgtcagacct ggcccccgaa 120
ctgatctggt tccgggagca gactgagtac ctgaacctga ctatcccctt ctttttccac 180
gccggtgaga ccctgggaga cgggaactcg accgactaca atttggtgga cgccattctc 240
ttcaactccc gccgcatcgg ccatgggttc tccttgtaca agcacccaac cctcatcgac 300
gaggtgattg aaaaggcggt catggtcgaa gtatgcccca tctccaacga agtgttgcga 360
ttggcgacgg acatcctcca tcaccctctc ccggcgatga ttgctcatgg tgtgcccacc 420
gccataagta atgacgaccc ggccattctc ggacaggaca ttcccggcct gtcttctcca 480
caggcgccga gcaccgcgaa taggaactca 510

<210> 1912
<211> 408
<212> DNA
<213> A.fumigatus

<400> 1912
agacctcatg aagatcgcgc gcgaccatgc ccgcctcgac ccaaacatag attcccacct 60
ccgcaccggc cgcttcagct acctgaaccg cacgctcgag gacctcgttg cggaggtcct 120
ccgccaggat acctcgagca cctcccccgt ccccgaaaca gcgccacagg cggaggccga 180
agcagacagg agattcgacg tcgtgaccct cttcgaggtc ctcgagcatg tcgattcaag 240
cgcgggttcc tccccctgg ccttcctaac agactgcctg cgtctcgtaa gaccgggcgg 300
ctggctgatc gggtcaacga tagcgcgcac cctgccctcg tggctggtga accaggtgat 360
tgccgaggcg ccgtggccga ttggcgtcgt gccgcgcggc acgcatga 408

<210> 1913
<211> 672
<212> DNA
<213> A.fumigatus

<400> 1913
ttgccttacg taagggcgga tcctggcagc tcccgtggtg aagacctcat gaagatcgcg 60
cgcgaccatg cccgcctcga cccaaacata gattcccacc tccgcaccgg ccgcttcagc 120
tacctgaacc gcacgctcga ggacctcgtt gcggaggtcc tccgccagga tacctcgagc 180
acctcccccg tccccgaaac agcgccacag gcggaggccg aagcagacag gagattcgac 240
gtcgtgaccc tcttcgaggt cctcgagcat gtcgattcaa gcgcgggttc ctccccccctg 300
gccttcctaa cagactgcct gcgtctcgta agaccgggcg gctggctgat cgggtcaacg 360
atagcgcgca ccctgccctc gtggctggtg aaccaggtga ttgccgaggc gccgtggccg 420
attggcgtcg tgccgcgcgg cacgcatgaa tggagcaagt tcgtgaatcc agatgaactg 480
gaggggtgga tgcaggaggg gttgatgagg agttcggatg gggctgcggc gcgtgcgggc 540
agtgaggcgc tgcagggtat gaagtggaaa tgcacgggtg tcatgtactt ccccggcctg 600
gggtggaagt tgattcccgg gtcggagagc tggggcaact acttctgggc tgtgcggaag 660
ggtggatact ga 672

<210> 1914
<211> 465
<212> DNA
<213> A.fumigatus

<400> 1914
cacccgtgca tttccacttc ataccctgca gcgcctcact gcccgcacgc gccgcagccc 60
catccgaact cctcatcaac ccctcctgca tccacccctc cagttcatct ggattcacga 120
acttgctcca ttcatgcgtg ccgcgcggca cgacgccaat cggccacggc gcctcggcaa 180
tcacctggtt caccagccac gagggcaggg tgcgcgctat cgttgacccg atcagccagc 240
cgcccggtct tacgagacgc aggcagtctg ttaggaaggc caggggggag gaacccgcgc 300
ttgaatcgac atgctcgagg acctcgaaga gggtcacgac gtcgaatctc ctgtctgctt 360
cggcctccgc ctgtggcgct gtttcgggga cgggggaggt gctcgaggta tcctggcgga 420
ggacctccgc aacgaggtcc tcgagcgtgc ggttcaggta gctga 465

<210> 1915
<211> 1014
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (998)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1915
ataccttcac ctgctgaatc tcttcccatc gctgtccgta tgtcgtccct ctcccaggga 60
gattcgccct cattgactgc caccgcatcc tcgtcctcat ctagctcgac atcaggatct 120
cgcactccga aagcgaacaa ttccttcaat caatcggccg catcctactt ctcctacccc 180
gtcacacacg tcgtctcagg actctaccgc cgcttgacag aaccaaacat caccaaagca 240
tcgcgcaaag acagcaacag tcccaatagg aaaatgaacg ccagaaacaa ccgcgactca 300
tccacaacgt ccccagatat cttcgtccct atccgcaccg catcgccctt ccaaccaccg 360
cccctcaccc cgctaactct caccccggc cctggtgtcc cccaacaaca actcctcacc 420
cgtgctctcg ccgaagaaat ccgcctactg gtcccagccc gcctccagct cgtcgatacc 480
tggcgtctag cctacagcct cgaccgcgat ggcgcttccc tctcaacgct ttacgaacac 540
tgccgcgatt tctcgcatcg cagcccgcgg gcgggctacg tgctcatcgt ccgcgactcc 600
tcccccgccg gtgccgtctt tggcgcatac atgaccgacc ccccacaccc agactcgcac 660
tacttcggca caggcgagtg cttcctctgg cgcgcgagcg tcctgccatc gccgtcgaac 720
ctactgaata tcaacggccc gcagtccgag gagatgctcg agcgcgccgg cctgcccttg 780
ccccccagtg cggacacaac acatgcgggc cgctcgacaa cactacgtgg tgactcgcga 840
ggtcacggcg atggccgcct cgcggcaccg cgggccaatg gcgggactgg cgccggggcg 900
gcgagtggtg ccagcacgcc ggagaggatc cggttcaagg cttttcccta tagcggcgtg 960
aatgactaca tgatgttttg cgagactggc ttccttanct tgggtggggg gtga 1014

<210> 1916
<211> 420
<212> DNA
<213> A.fumigatus

<400> 1916
gcgaaagcgt cacgggaggt ggcagtaaac aagcctctcc gcaggcaggt cactgcccta 60
cgagagctaa aaaccaagca cgcggacaag gcgtcgacct ggccgattct tctaggcaac 120
aacttcctct gtttgctggc cgtcgacgcc taccaaacaa tcgcagagga cttcgccgat 180
ctcatccacc cgtttcggtt taaccaggca cagcaagcgg ccatcacgcg tctccgcgcg 240
ctccctggtg gcgttggtat catccagggg cccccaggga ccagaaagac ctatggacag 300
tgcgaccatc cctcctgttt ctcccttcca acaactgtca tactgactgg cggccaccat 360
catatcatgc taacccgcgc cgtcgaccga ggtcgttcac gatctcccgg tcgcgattga 420

<210> 1917
<211> 684
<212> DNA
<213> A.fumigatus

<400> 1917
ttccctagat tcaagcgcgg atcggcccat ccccgtggtg aagactcgtc gtccgggtgt 60
gttgattctc ccaactcgcc gccttccgaa atccttgaaa atatgagtct tcacgggggga 120
tcgagcccta aagagaatat gccggcgttc attcagccca acttttcctt gcctccatcg 180
gcgtttactt tcacgcctcc tgcgtctccc cgacagagtc ttggaaacca gccatcgccc 240
gctcagagtc gccgctcact cacgcccagt agcgaggatg aaatgctgcc tttgtcaccc 300
tccaagcgcc ccctcgagaa gatcgttgaa gaaccgagcc tgcctttcac ttcgagtgcc 360
gacccataca ccgatattgc tgcctccacc gcggagctgt cttctccaca tacggctccc 420
accttggctg attcgtctca cggctccgac ctcgatattt tcatcagcac ggatagctcc 480
gccaatttca agcatgaatt tcccgatctg agtgaccccg acatggccgc tttccccgac 540
tatgtcaatg ggtctacctt cgaacccgga atggatctgt tctcgagcaa gacattctct 600
gccggtacct cgatgaacga ggacttcttt tcactccaat tccaggttga tgatatgacc 660
aaagaattct tcatggactg ctag 684

<210> 1918

<211> 285
<212> DNA
<213> A.fumigatus

<400> 1918
aagatcaggc tcctccccgt tttatcttct ccaggttctc cctcattgtg gaattccctt 60
tcccttgacc ttcctgttgt catcctacag agtatcgcca tggccgtctc aagggatctc 120
gaggctccta ccgtcgttaa cgacccaacc gctgatgatg ctgtggttga aaagaaggaa 180
tatgctgatg ggacgccggc aaatgacccg tttggaaatg aagaatgcgg agaaggtctt 240
caccacgggg ttgaaaggat ccgaggggggc gcaatagggg ttcaa 285

<210> 1919
<211> 966
<212> DNA
<213> A.fumigatus

<400> 1919
tatactgact cttgtcctag cgaggtcctt cggtccagcc gacaaggcta taccaaagcc 60
gtagatctgt ggtccctagg ctgtgtgacg accgtgctcc tgaccgggga acctcctttc 120
aacactccat cacctaagtg tgaaaccagt cagggcaata gacagggtgc tctcgacagc 180
ctcgaggcaa atttgacctg caacatgatt ggtaagcggg cgaaagactt tgttcttcgt 240
ctcctggtct tcgatgaggc aaagcgcatg gatgtgaagc aggcattggg ccattgttgg 300
ttcaccaacc ctgttcataa ggaggcattt gaagcgctct acaagcgatc cattagggac 360
tggaagcctc gagcaccgaa ggagccacta atggtcgacc tcgatctgat tcaagtccgg 420
aagacaaacg gagatgtcgc tcagacacat tcccaagaga gtttgccaag taagcttttt 480
aaatcagctg ttccaagggc aaatggctct aaagagtcaa tattagagga atcatcatcg 540
cctgaactac gcagagatct ctctccgaca ctctccgacc ccgaactacc gccacacggc 600
caactagacg acaatccaca tcaagcttat gatctgggaa acgaccctgc cgaaattgaa 660
tcagaagcag ggaagttaga tgccctcgag cagagactgg aatcttcaga gcaatctgaa 720
gtactcagaa gtgaaagcga agaattcaac cagtatgagt gggcaatccc acctataatc 780
ccaaattttt cgacggccaa taccgcactc ttgaagaaca ttaacaatag ctcaacaaga 840
aagaagcgtg ctagtaacac ctgggaggaa ttcgggaatg aggtctacga ggaagtcaaa 900
aatagtatca ctgggaagcg acatcgcttg ttatatggcg caaactttgt cgcaaactgg 960
agttga 966

<210> 1920
<211> 234
<212> DNA
<213> A.fumigatus

<400> 1920
gcagatgtta ttttggtttt gccccaatgg cttgctgtaa atcaaggcag ccccgcatac 60
cgcggtgaca agcttatcgc cggcgcttat catctggctg gaaagcctgg aacctcagga 120
atccaggatc agctcatcat tcattccatc gatctcagtc cccagattaa ttgcaggtcc 180
caacactcgt cctatccaat cgtgtatgcg acagtcaatg tctcctttcc cctt 234

<210> 1921
<211> 495
<212> DNA
<213> A.fumigatus

<400> 1921
tatacgcata gcgcggaacc ttccagcccc gtggtgaaga cagtggaaat tgaccgcatt 60
ccattcattt tgacgttgca gtccctgatc aactggaagg ctgaaacaca tattggagtc 120
ccaagcgatc aattgcttaa atgcgctcaa tgtggcccaa gctcctcata tgcgaaatca 180
aacttcctgc acctcttgct gcttcttatc caaccgcaca tgggacaatc cgtttgcgaa 240

tctgctcatc ctcattgggt ctcgattcag gctttcatag atcgcttcga gatctgtacc 300
aataccaagc tcctccgccg tcttgagact acgcgcatcc aagaaggggg ccatggaagg 360
ccaaacgcat tgtacgttgt taagaaagat atcgacacca aggtcaccca gtcctttgat 420
ccccttgatc aaatctctgg tccttttgcg gtcgttccca gctttttca gaagattatt 480
aaggtcgccg tctag 495

<210> 1922
<211> 453
<212> DNA
<213> A.fumigatus

<400> 1922
aggatggggg gtataatcgg tatcgagagc aaggtgctac aaacctgggc gatttggcgg 60
acttcgtcaa tggacagtac ggtacgcatc ccttccttga gatcagtctg gttctgtcag 120
tatgttcacc acggtctaga cggcgacctt aataatcttc tgaaaaaagc tgggaacgac 180
cgcaaaagga ccagagattt gatcaagggg atcaaaggac tgggtgacct tggtgtcgat 240
atctttctta acaacgtaca atgcgtttgg ccttccatgg ccccccttctt ggatgcgcgt 300
agtctcaaga cggcggagga gcttggtatt ggtacagatc tcgaagcgat ctatgaaagc 360
ctgaatcgag acccaatgag gatgagcaga ttcgcaaacg gattgtccca tgtgcggttg 420
gataagaagc agcaagaggt gcaggaagtt tga 453

<210> 1923
<211> 804
<212> DNA
<213> A.fumigatus

<400> 1923
accatttgtg gccctagcga aaaaaaatgc tcttttgaaa ggggaaatcg caacaccatg 60
aagcacagtt ctcccgctgt agaagattac gaaaccgacg gcaccccagt cccagtgccc 120
gaaaagcgcc agcgagacca aaaaatacac gagacatcgg atcgcgacga ctcagagcag 180
cctccaaaca aagtatcgaa gtcagccagt gaagaatcta gctctaaaaa tgagaacaaa 240
gcggatccta acctcaacag caagggatgg aataaggaca acaaaggcaa acaaggccta 300
ggggtgaaaa cggccgcaaa acaaaaccaa aaacatgatg aagaagacgg tttggagggt 360
gctgaagggc aattcgaaga tgaggagcat gctaaaccct cggaatcacc aaaagtgcac 420
aagattatcg aggagtttgg ccggcagcca ctagagggca cttcccttgc gaaggggccg 480
ctcattgcgt ctccggagac ggtgcttgcg atggtgcttg acgcgatgtt gaagtcgcgg 540
ccgatttcgc atgatctttc gcagcgtgcg gtgaccgagc tcattgacga aggttatcat 600
gacatcaaaa agctgggggа aagtagttgg gaggaacgga cgatggtgct aaaggatggg 660
gggtataatc ggtatcgaga gcaaggtgct acaaacctgg gcgatttggc ggacttcgtc 720
aatggacagt acggtacgca tcccttcctt gagatcagtc tggttctgtc agtatgttca 780
ccacggtcta gacggcgacc ttaa 804

<210> 1924
<211> 255
<212> DNA
<213> A.fumigatus

<400> 1924
ggaggggatc tcattaccgt ggtcgaagat gtgtatattg ttgtcatttg tgatatattc 60
tttttcgttc tttcacttcc cgctctctcc cctctccaac ctccaactca caactcaatc 120
gctccccccc tttcgtcgct gtatttttcc cccactactt tgtactggct ttgttttcca 180
cttaccaacc taactctttt tttccctgct ccgcgtcaca aaaccctgta tttttccctc 240
tgcgtgtctg cgtga 255

<210> 1925
<211> 243

<212> DNA
<213> A.fumigatus

<400> 1925
gagcgcgtga tttttcagcc ccgtcgtgag gacaaaacga gggtgtgggt ttcacattat 60
tccgataacg tgacggtgac tgtggtgtgg tttagcttaa ctctcccctc tcaagcacaa 120
gcacagcggg agcgtccctc tcccaccggc cttttgcatc cagcggggga cgaaggacaa 180
tataattcag acttcctgtt tttactactt aactccatgg agactccaga ttccagtatc 240
tga 243

<210> 1926
<211> 252
<212> DNA
<213> A.fumigatus

<400> 1926
tccagctcca acatgaaacc cctcacctac ctcgccctcc tcctcggcat ctccgcaacc 60
accgccttcg ccgccctccg cccagacgca acccccgatg aggtcgccgc ggcggaagct 120
gagtgcggat ccctgggcgt gatgaggatc gacccagcag agctgcctga gggcatcaca 180
atgagtgacg tccgcatgtg cgccaaccat ccactcggcc ccggggcgta cccaggtttg 240
ggtcctgggg ct 252

<210> 1927
<211> 540
<212> DNA
<213> A.fumigatus

<400> 1927
cagcaccaag gcatccatcc acccaatctc aagcttctct atcaagactc ttcccttcac 60
aaagcctccc gtcctctcaa aatgaagttc accacaccca tctctctcat ctccctcttc 120
gtctcctccg ctctcgcggc cccgacgcca gagaacgagg ccagagatgc gattcctgtc 180
tccgtgtcct acgacccgcg ctatgacaat gccggtacct cgatgaacga cgtttcctgc 240
tccaacggcg tcaacggcct tgtgaccaag tggcctacct ttggcagcgt gcccggcttc 300
gctcgcatcg gtggcgcccc cacaatcccc ggctggaaca gccccaactg cggaaaatgc 360
tacaagctgc agtatgaaca aaacaccatc tacgttacgg caattgatgc cgcacctggc 420
ggcttcaaca ttgcaacgag tgccatggac cagttgacga acggcatggc ggtggagttg 480
ggcagggtgc aggcaacgta tgaagaggcc gacccatccc actgtgcctc tggtgtatag 540

<210> 1928
<211> 204
<212> DNA
<213> A.fumigatus

<400> 1928
ggatccttgc tgaatgggcc gaccaatagc accggtctcg gctgggacgg tgtacggccc 60
gaagcagaga agcgcgggct acggccaacc acctggcagg actgggaacg catcgacaag 120
gcagagcggg agcgaggcca gcagaagggg aaagctcgag ataagtttgg acgagtggaa 180
gagatgttgg aggttatatc ttga 204

<210> 1929
<211> 537
<212> DNA
<213> A.fumigatus

<400> 1929
gtgcacgtac acttccaccc ccgtggtgaa gactgtgtca ttcattcttg tacttgtctg 60

ttccctggcc tgctcattcg cacactctat ctcgaaccca tctctgttag aggaaagatg 120
gctgaattta aatatccagt tcgctctgct catttgaatc ggaaagctgc cggagtcttc 180
gaggttccac atctgccacc ttgggcacaa agccacgttc agcacgcaca gaatctcctt 240
gagtgctcag atgaacctat cgagtacgat cacgacgacg aagactactc ggacaactgc 300
ttctttttcc ccgaggactg ttcctggtct ccgcctccga attgggttat tgaagacgac 360
aggtccgaag acgacattgc ggacggaact gactctgagc acgactacga caacacaatg 420
attccgggac ttccggacat tcgaatgctc gatgcagagg ccctcagcga tttgctagag 480
gacaacctct cacctccgga gatcactacg atcatgtatg ctgatgtcat tccttga 537

<210> 1930
<211> 690
<212> DNA
<213> A.fumigatus

<400> 1930
cattttccga ctcatagggt gtttgccaca aacggcgcca tcttcgccta tgcttcgtca 60
ctttcgtctc ggcagttgcg caacttgagt gcgacgtacg gagctgccta tacgtgctac 120
gcaaagaacg cctcgagcgg gaatcttaca ggcgtgaacc cagccagtca cccgtcgtca 180
tatgtcacgg cacaatcggt gtcgctaggt gacgtaggct cgattgtctt tgagcttgac 240
gactcggtgg ccgtcgtgac caggatagcg gacaaagtcc tgctggccgc tgtggggccg 300
tcgaaatctg acaccgacga ggccgattct gctgacggaa cgccagttca tcaaaacggc 360
ttcgcgaaat tggggacaga ggcgacgtcg gcaacggagt cgaatgcaca ccggcccacc 420
accaacagta cacacaccaa ccaagcgcca tccaccacga cctcgacccc aacaagcatc 480
tctcgcaacg agagcaaagc tgacgtacaa gcagacgctg atctagagac gcagtacgag 540
attgaccgga acagcaacct cgctcgccta gccagcttga atctgtctgc atcgccgtcg 600
acgctcttag cgctcgagtc aaaggctgcc gctctgggaa ggtttctcag tcagaagttg 660
gccgactttg agagccccga cgatttttag 690

<210> 1931
<211> 357
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (252)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1931
gactccttct cctcaccctc cggccacagc atccgccggg tggccacagc ccagattgtc 60
cctacgccga cacacaacca gatagccacc tgggccatcg tcaaccctga cccaacccac 120
agaatcgcag acgactgcag cacctgtcca atccggatag tggcaagcac gaaccccgtg 180
ttcggaaaga ccatgctcca atatggaagc gacatgcgca gcgccccggt gcccgccaac 240
acgcgacact tngccaggac gcctgacaac cgcaatgcac agggcaaaaa gctggccttg 300
tccccaacga aggaagcccc acccacgcgg cggagtccaa ggcaaaggct tccgggg 357

<210> 1932
<211> 360
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (105)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1932
cccggaagcc tttgccttgg actccgccgc gtgggtgggg cttccttcgt tggggacaag 60
gccagctttt tgccctgtgc attgcggttg tcaggcgtcc tggcnaagtg tcgcgtgttg 120
gcgggcaccg gggcgctgcg catgtcgctt ccatattgga gcatggtctt tccgaacacg 180
gggttcgtgc ttgccactat ccggattgga caggtgctgc agtcgtctgc gattctgtgg 240
gttgggtcag ggttgacgat ggcccaggtg gctatctggt tgtgtgtcgg cgtagggaca 300
atctgggctg tggccacccg gcggatgctg tggccggagg gtgaggagaa ggagtcttaa 360

<210> 1933
<211> 552
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (29)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1933
agtaatgggt tgcgaacagg actaggtana tgcccacatg caagcaaaga aaaagccact 60
gacggctccc agtcattgta ttctgatcag gccatggccg cgcagagcat ccgctttctg 120
agtgtgaatc aagtccaacg tttacatggg ctctggatca gcccaactgc ccagccggtg 180
cagctccctc tgttggaatc tgccatcaac tctccgatga atctcaagca ctatgggaac 240
caaggcgatg tctttcagct cgctgccaac ctttctgaga aaatcatgaa gaaccacgcc 300
tatcaggatg gcaacaagcg gactgcactt ctggccgctg atatattcct taaaatcaac 360
gggtatagac ttcagaaagt gccgttcgcg gacgatccga ttaataaagg cctggctaac 420
gcccatgtcg ccgtcgttac caatcaatgg actgtcgacc agctgggaaa tttctaccga 480
tcagtggcga agccattgga acagttcaca ccagatattg aggaattcag aaaggccgct 540
attgagtatt ag 552

<210> 1934
<211> 279
<212> DNA
<213> A.fumigatus

<400> 1934
gtgaccgctc attctattct tgggaagcaa gagctgagag acccaggatg gaattctctg 60
tatcttgaaa atcatgacca atcccggtgt gtgtcacgat ttggcaaccc tgatccgcga 120
tacagagccg tgtcagccaa gatgttggct acaattcagc tctctctaag aggaacccct 180
tttatctatc agggccagga attgggcacc ccacatcccc agaactggaa gattgaagat 240
tataacgatg ttgagacgca tggatactac aacgcgtag 279

<210> 1935
<211> 336
<212> DNA
<213> A.fumigatus

<400> 1935
gcgattcttg gccaatctcc ccttggttta ttatttactg acgcatttta cagtcagtac 60
aaagctcgca aagaaaaaga tccctccaag gagcctgaca tgtccgatgt gatggatgtc 120
attcgcctca aaggacggga caatgcgcgt agccctatca tgtggaataa tgcgcccaat 180
gcagggttca cttccccaga tgccaaacct tggctccgaa tgaacgatga atatgccaat 240
atcaacgtcc aggctcagac tcgtgatccc gactcggtcc tgaactacta caagaagctg 300
ttgcatatcc gcaaacagca tccgctgatg gtatga 336

<210> 1936

<211> 207
<212> DNA
<213> A.fumigatus

<400> 1936
gaaatgccgt gtggtgtgga cgaatacgag tccagtcagt atgtggccaa ggagcgtcag 60
gagctatcta tggtcttcca gtttcaccat atggatctgg atggtgaaaa tggagacaaa 120
tggaaacctc gcaagtggga actctgggaa tttgagaaag tgttcaggat ttggcagcag 180
catatgctgg gcaacaacgg taggtga 207

<210> 1937
<211> 636
<212> DNA
<213> A.fumigatus

<400> 1937
gttgctatac taaactctgt cttaggcttc tttggatatt cccacttcac agggggcttt 60
gccggtgggc tgtcggaatt tgttcgcgtc ccatatggtg acgtgaacct ccttaatctg 120
cctgatgacg tccccgatga aaaaggactc tatctttctg atgtcttggg aacgtcttgg 180
aatgctgttg tcgacactgg ggttaaggaa ggcaacactg tggcaatctg gggagctggc 240
ccagttggac aaatggcagc tgaatacagc ttcttccatg gtgctaagag ggttatccta 300
attgacggcg gccaggggaa atggcgacta gactttatca agaaaattct gcccaaactg 360
gagacaattg actttgcaaa cctcccaaag ggtgaatcag tgccctcgac tttaaagaaa 420
atgtgcgatg gccacggacc tgatgtggca attgagtgcg ctgctggtga gtatgaaaaa 480
ggctgggccc attactttca gagattactc ggcatggaaa cagatacatc tgaactggtc 540
aatgaaatgc ttatgtctgt ccgtgggttt ggacactgtg gtatcacagg cgtatatgct 600
ggttatgttc gtggtacctt ttttatggtg agataa 636

<210> 1938
<211> 306
<212> DNA
<213> A.fumigatus

<400> 1938
gataagtccg ctgacgacat aattcagtgt aatcacttcg acatcggcgc cttaatggag 60
tgtgggatca agctccatgg taatggacaa gctcctgtgc aaaaatattg gaaagagctg 120
ttgaggtata ttcaagagga caagatccac cccctggata tggtcaccca caggttcaag 180
ctcgaggaca tggagaaagt atatgattta tttgataagc gggaacaggg catgcagaaa 240
gttttcatac agacaagatt ttctgcacct ccatccccag gatcacgccc actaactgtg 300
ctttga 306

<210> 1939
<211> 1149
<212> DNA
<213> A.fumigatus

<400> 1939
agacccggtg ctggtggcat gctcatggac ccagccgcca tcgatgctct gacgaaagat 60
caacgggcgc tgttcaagca gcaactggag atcattgcgc gctacttgaa gatggacctg 120
cgtgcgggcc agaaggcatt cattgcttcc caagaaactc aaaatgcgct gcaagcacag 180
cttgatctct ggcaagcaga acatggtgac gtgtacgcgt ctggtattga gccagctttc 240
gattcactaa aggctcgcgt ctatgattcg tcttggaact gggctcgtca ggatgctttg 300
agcatgtatt acgacattat ctttggaagg ctcaaggtcg tggaccgtga aatcgtcagc 360
cagtgtatcc gtatcatgaa ccgctccaat cctctcctac ttgattttat gcagtatcac 420
atcgacaact gtcctactga gcgtggtgaa acgtatcaac tcgccaagga gctgggacag 480
caacttatcg agaattgcaa ggaggttctc ggagttgccc cggtctataa ggacgttgcg 540

atccccaccg ggccccagac aacaatcgac gcccgaggca atattgccta taaggaggtg 600
cctcgggcga gcgccaggaa attggagcat tacgtcaagc agatggctga gggcggtccc 660
atctccgaat acagtaaccg caccaaagtg cagaatgacc tcaagaatgt ctacaaactg 720
attcgaaagc aacatcgcat gtccaagtca tcccagcttc agttcaatgc gctttacaag 780
gaagtcattc gcgctcttag catgaacgag aaccaaatca tgccacagga gaatggccac 840
tccaagaaag ctggtcggaa cggtgtcaag cgcaatggca gccctagagc tggtaaggtg 900
gaaactatac ctttcttaca cctcaaaaag aagcatgagc acgggtggga atacaacaag 960
aagctcacag gtatctactt ggacgtgctc gagtccgctg ctcggtcggg gctgaccttc 1020
cagggcaaga atgtcctgat gaccggtgct ggtgctggtt ctatcggaac tgaggttctg 1080
caacgtctga ttaccggtgg tgccaaagtg attgtaacaa caagccgatt ctcccgggaa 1140
gtcaccgaa 1149

<210> 1940
<211> 318
<212> DNA
<213> A.fumigatus

<400> 1940
gctgctgttg tcgtcgatgt cagtctctcg ccctcaaagt cgtcacttgc ctctttacca 60
cttaaccagc caacttacaa cgtctggact caactaatgg atccaaattc tagtaccgac 120
atgcattcct caaattctag tactcaccag agtacccctg catctcttca gtcccagacg 180
ggatctatag tcgtagttgg tgaggcaggt attcgtctat caattgtgcc ggatggccac 240
ccacagggtg ggaatgattg tacgatccta gagagaaaaa ccggtgcatc acttttgacg 300
gacctgattg tctctgcc 318

<210> 1941
<211> 639
<212> DNA
<213> A.fumigatus

<400> 1941
gatctcccgg atcttcctac tgctacttca ccgttggaca gtgcgattaa tggcctgaaa 60
ttcttctcga aactacagct tccaccgggg aattggggct gcgaatatgg cgggccaatg 120
ttcttgctcc ccggggtggt gattgcgtgg gtggtgacgg agacgcccat tccgcaggcc 180
tatgcgatag agatcaaaaa ttatctgatg gcgcgcgcga acccggtcga tggaggatgg 240
ggtctccatt ccgaaggcga cagctctgtg tttggcacgt ccctgaacta caccgtgttg 300
cgccttcttg gggtggacag tgagcacccg gtcatggtgc aggcgcgagg tcttctccac 360
cggctcggag gcgctctgaa tgcgccgcac tggtcgaagt tctggctggc agttctaggg 420
gtgtgtgact gggaggttgt caatccggtt cctccaaaag catggctgct gccacactgg 480
gtaccagtgg ccccatggga gatggtgggt gcatatccgg caagtccttc ctcccgatgt 540
cgtggatctg gtctaaaaag gtggaaggcc gccggaaacg gaactttgtt aaggggccct 600
gctaacggga acctttttgt tccccccctt gggattaac 639

<210> 1942
<211> 360
<212> DNA
<213> A.fumigatus

<400> 1942
aaaaaaaagg tgcgggatcg aagaataacc gagaatatag tcaagtacga ggatactcgc 60
gaagatggca tcaaaggcga gacggcggaa atgcctgccg aatttggcat gtgttatgag 120
aaaacagagc tcaacggctg gtcatttttt aaccagctca cgaataagca agaaatggcc 180
atctcccctg cggcacttga tcgatatcgt accaagaata agctctctga cattgagaat 240
accgaagcag cgctgaaggg caaatcgctt acgggtctaa agcttcgggc ggctgccaca 300
accatcctgc atgaaatgac ccatttctac agcttatttg gggcgggaaa aacaggttag 360

<210> 1943
<211> 372
<212> DNA
<213> A.fumigatus

<400> 1943
gtacggcttc aacccctttc cattcattcg gagtgtacta actgtctttt gatgcacagt 60
gatgatgttc tccgcgctgt gaaatccctt gggcctcttg ggtctggttt ctccattgtg 120
caagtcggga gcaagcaata cattcgctcg atccccaaag agttgaacac cgatcaggcc 180
acagtcctcg aggcaattca aatactgggc tatgtcagct tgtccatgtt gcagttgaac 240
ctgaactgga caaaggcccg cgcacaaact gtcattgatg accttgttgc agacggccta 300
gtttgggtgg acacacaggg cgaagagaat gaatactggt cgccccaaaa tctccttgat 360
gacagcggat ga 372

<210> 1944
<211> 456
<212> DNA
<213> A.fumigatus

<400> 1944
gccaaccatg gcgggaatct tcgctctgcg caccttgagt ccctccaaac acaactgtcc 60
gtattccagt cgttgcttca caccttcgca ctagaacatg gttcaacaat aaagtcgaat 120
ccgacatttc gagctgaatt tgctcgcatg tgcaatgcta tcggagtgga tcctcttgca 180
gcaagtaatg tgaaagggaa aaatggccgg agaggagaac gtgctagctt ctggacgcag 240
attatgggcg gtgatatgaa tgacttctat tttgaggttg ctgtccgagt tgtggagctc 300
tgcagatcca caaggagcga taatggaggc ttactaggtg ttgaggagtg tcgaaaaaag 360
gttggcaaag gcaaagccat tgggagcggc ttggaggtca ctgagtacgg cttcaacccc 420
tttccattca ttcggagtgt actaactgtc ttttga 456

<210> 1945
<211> 210
<212> DNA
<213> A.fumigatus

<400> 1945
ttcaacagag ggcttagaca tagtggttgg tcgcagcatg gccatggtca ccagccattc 60
ccagccggga atcgtgcctc atgttcaggt ttgcattata tatcctctct aagagagttc 120
ccggagttga ttgagaatat ggaggtgcag ttgcaattcg aaaagtacaa cgttcggcga 180
ggtgctcctg attaccactt cccagagtag 210

<210> 1946
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1946
gaaggacaaa tgtcccaaag accaacatcc tcccatgact cctccgcccc gcaccacatc 60
ccagtagacg actgcctaac ctacgacaca ggataccgcc cgaacctccc cggccaacgc 120
acctggtggg tcttttgccc tgtgacgggg gctttcgaca acagctacgc cctcctcggc 180
gcgatgatcg agtgcgtcgc gcgcgggaag gccacgctgg gcaccgggct ggggacgtaa 240

<210> 1947
<211> 213
<212> DNA
<213> A.fumigatus

<400> 1947
ttggaggttc gatatttcga acaaggtaga gtagagaagc gagaagagag aagagcagga 60
tatccaaagg ataatggtga tggtgagaag aatgtccatt ttgagcagac ttcgtatgaa 120
atttatatct gtcgtgagca gagaaatgag acacactctg tcgatataag acattatttc 180
ggtacatcgc gacaagacgg tgatgtcttg tag 213

<210> 1948
<211> 279
<212> DNA
<213> A.fumigatus

<400> 1948
ccgacctgca aggccaaaaa atggcccaac tttgtcagta tcggactgcg caatgagctt 60
cgccagccct ccacaagcaa cacgcagtac ccgtacaact gggggacatg gtacacacag 120
gtgacgacag cagcgaaaag ggtcaacgca gccaatcctg atgcgctgat ctttctgtct 180
ggcctgaact acgataccac gctcgcgccc catcccgaca gcatcggatc tcggcaacgg 240
ggtgaggttc cgtctctccg acttcagctt tgcgaataa 279

<210> 1949
<211> 459
<212> DNA
<213> A.fumigatus

<400> 1949
ggtggagacg ccaccgtcca gaactcgctg atctacgcgc tgggatcaac gaacgggact 60
aaggttttcg atcagatccg caaggtgaac ccccagatca agtcgacgac gacccgtctt 120
gaagtctttg atatggtggc cgcggagtgc aataaacaag gactctatat ccatttggat 180
aatcacatct ccaaggctat gtggtgttgt tcccagaccg acggctatgc ctggtttggc 240
gatacctact tcgacgttgc caagtggatg cgaggactgg agtatatggt ttctcatgta 300
agtcacctcc cacaaccaga cgcacgacat gctgaccgac ctgcaaggcc aaaaaatggc 360
ccaactttgt cagtatcgga ctgcgcaatg agcttcgcca gccctccaca agcaacacgc 420
agtacccgta caactggggg acatggtaca cacaggtga 459

<210> 1950
<211> 429
<212> DNA
<213> A.fumigatus

<400> 1950
actacgatac cacgctcgcg ccccatcccg acagcatcgg atctcggcaa cggggtgagg 60
ttccgtctct ccgacttcag ctttgcgaat aagctggtcc tggagcttca caactatgac 120
accggtgcga ccagctgcag cgcgctgtct ggtgcgctat ggaacgccgg tttcaaggcc 180
cagaactcgt ctgacccgtc gattgtgaac ccgatgcccg tcgttctgac cgaatttggg 240
ttcctgcagg acagtaccac ctggaagaat gtgtatgcca gctgtctgcg gacatggatt 300
cccgagcagc gcgcaggttg gaccacctgg gttattgccg ggagctacta cattcggcaa 360
ggcacgcagg atatggatga gacatggggt aagagccatt ccaaaggtgt tgctgtgtta 420
aaatgctaa 429

<210> 1951
<211> 1083
<212> DNA
<213> A.fumigatus

<400> 1951
gacaagcatg atatacttcg aacggcattc cgtcagtctg aagataatgc gcaaatcttg 60
cctcggacga caggatccgg ggactgcgcg gccctttggg cagttttgac tctggcgtcc 120

atgcaagaga ggtcgatcgc ggccacgcgt cagatgggag cttctccaaa ccggccacgc 180
tctagccagc tatacgccac ggccagagca ttgatacctg ccgagaaggg cattcatgag 240
attgggcatg tgcaggcttt gctgattctg tccttggtga aactcggaca acaggaatgg 300
aaagatgcgt gggtgctggt agggcaagca attcgaattg cacggtggct gggtttgggt 360
tctccactga caggctcggc tgaaaatgag aagggctcgg cacggtcaaa gcatgtcttt 420
ttagggtgct tcgtactgga aacactgatt tctagcaaga ctggccaggc accgtcgcta 480
cgcaaagagg atctcgtcaa gaccggcccg atcaatgagg atggcttgga ggaatggcat 540
ccttgggaag atcagactgg tctgcgagcc ccagaatcgt cgcgtggttc ctctcaccgt 600
ggacccctc atgccctgag cacattcaac cggatggtgt ccttgatgtg catcttgaac 660
gacgcttgtt gcacaaagcg attggagaac aatccggcac cacagctcga ggcgctggaa 720
cgacagttac aacattgggt gtcggccctc cctggaagct accgtgttga cttgcagagt 780
cccactaggc ttgcctcacc tcacatcttt ggattggaaa tgatgtttga aagcagcgtc 840
accgccttat ctttggacac gatacgccag ggggataaac gtctgtcaga cctgagaaag 900
actcgtgcga ttgagagctt aaagaggctc atgctgctgt tgcaaaagta catggaaact 960
tatagcctgg cggcgacaag tccaatcttt ggaatgctat tgacgtttgg tatctcctcg 1020
ggggaggggc aaggcgcgcg aggggaattt gaacttgata taggcctcaa gaacaaactt 1080
gaa 1083

<210> 1952
<211> 381
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (175)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1952
agacccgatc ttggcgctct ttgcatcgcc atcgaagaaa aattcactga taagctttcc 60
ggttccggga gcgttctgga taccccagca ggtgtgtcca gcagcaaggt acagcccttt 120
agtgccagtg tggccgatca agggacctcc ccgtacgctg acgttgggca agtancaagc 180
ttgccgtgcg caaacctgtc cgtcccgaag ctcatcggat atgctgccca cttgatcgat 240
gatgtcctgg caccgcctct ggtccacttc aacatctgct gtggtctttg gaagcgggac 300
aacctggtca ccctcgccac aagcgtatac cgtctcatcg gggcgggcgt aaatctcagg 360
ggacacgact gtggggcgtg a 381

<210> 1953
<211> 192
<212> DNA
<213> A.fumigatus

<400> 1953
ggtttctact tttcttccga tgcattccta gagatgcatt tcccgaactt acctttttctt 60
ctcgcgccct ttctctacaa tgtcgtggtc tccggttggc aggcctccgc cgcagacgat 120
ttatctgtcc tggccaccga gacagcgaac gccgtcttca cccatcggga ctggccggat 180
cagcggcatt gt 192

<210> 1954
<211> 585
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (12),(68),(585)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1954
ctgatcagag gntatgagag catgagcgac cccggcgaga ccgcccaagt ccacccttac 60
gtgttcanta catcaatcgc aaagcttgcc gaggagaaag gcgcagagat caagttggga 120
tcagtgacaa aaattggtta cgcaggggat gctgtggaat cagttacata caatgataag 180
gaatccggag agtcgcgcac aatttcggcg acggacgtca tcattgccgc tggtccctgg 240
acacgaacgg tcatgccgga agctcccata tcggcaatgc gcgctcacag tgttgtcatc 300
cgaccgacca agccggtgag cgctcatact ctatttacga acattgaaat acctgccaac 360
ttcgatccat cgaagccctc acgccccaca gtcgtgtccc ctgagattta cgcccgcccc 420
gatgagacgg tatacgcttg tggcgagggt gaccaggttg tcccgcttcc aaagaccaca 480
gcagatgttg aagtggacca gaggcggtgc caggacatca tcgatcaagt gggcagcata 540
tccgatgagc ttcgggacgg acaggtttgc gcacggcaag cttgn 585

<210> 1955
<211> 198
<212> DNA
<213> A.fumigatus

<400> 1955
tacttgccca acgtcagcgt acggggaggt cccttgatcg gccacactgg cactaaaggg 60
ctgtaccttg ctgctggaca cacctgctgg ggtatccaga acgctcccgg aaccggaaag 120
cttatcagtg aatttttctt cgatggcgat gcaaagagcg ccaagatcgg gtctctagat 180
ccgaggaact ttctctga 198

<210> 1956
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1956
ttcgcagtcc tccctcggaa atcggtcggg gatgacacct accactacgg aggtaagcgg 60
tggccaaaaa acgcggctgg tgtggagaac ccacgggccg tgttttatga tggcggaagg 120
gagaacacaa tttcccgaac gggccatggt gctgaaataa aaggggccct tctaaaccat 180
ttcatgggta atgggggttt gcgaccaaca ttggaaaaac gggcctttct tgggagaagc 240
gcg 243

<210> 1957
<211> 195
<212> DNA
<213> A.fumigatus

<400> 1957
cggagcacaa cgataacagc cggtgataag acttttttag tcaactcacg gaccaggatt 60
gataacgcgg gcagcttccg gccgtggagg tctaacatgg gttacctcct cccaatgaca 120
ctagctactt ttgagaccgc catccgtcat acacttactt cctcatgcat cgggtttctg 180
cagacctcct cctga 195

<210> 1958
<211> 681
<212> DNA
<213> A.fumigatus

<400> 1958
gacagcgaag cgaatgtcga cgaatacggc gagttcctcc acatccctgg acagaagttt 60
tacgacttca acaagattcg tgaggagatt gtgcgggaaa ctgaacagaa agtcggtcgc 120

aatgctggta tctctccagc gcctatcaac ttgcgaatct actcccccaa tgtcctgact 180
ctcacactgg tcgatttgcc cggtctcacc aaggtcccag tcggcgacca gcccaaagat 240
attgaacggc agatcaggga tatggttctc aagtacatca gcaagcccaa cgcgatcatc 300
ttggccgtta cctctgccaa ccaggacctt gccaactcgg acgggttgaa gctggcgcgc 360
gaggtggacc ccgagggtca gcgcactatc ggagtgctaa ccaaggtcga tctgatggac 420
gagggtacgg atgtggtgga tattcttgcg ggcaggatta tccctttgcg gctgggttac 480
gtccctgtgg tcaaccgtgg ccagcgtgat attgagaaca agcgtcccat ctcatacgca 540
ctagagcacg agaagaactt cttcgagagc cacaaggctt atcggaacaa ggcttcgtac 600
tgcggaacac cgtaccttgc cagaaagctg aacttggtat gtattattgg ccgaatcata 660
tcaccgtgga gccttagctg a 681

<210> 1959
<211> 303
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (92)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1959
tccaaatgct caccagcaaa ccattcacgt cgagccaatg cctcccaaac tccgcagctc 60
gatttcgaag agcctatcgc ggccctcgga cnatggactg atcttctact gtccatcctg 120
ctcgatctgg agacgaaacc tggcaacgcg tccccgcggc aatctcactc cgcgacgaga 180
ccagcaacac ctcccatcat cgcccttgat accctcggtg aatgtgtgtc gccgtcaact 240
tgcaacaccg tctctggtca gctctcggaa gaacgtacca gaacggttcc gggggctgta 300
tga 303

<210> 1960
<211> 981
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (919)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1960
caacctgcgt ggtatgagct tcgtgaggat gccttgtccc aacccgatcg aactgacccc 60
attgagctag atgacacctt tatgcactgc ctcaatgtct ccgggtcaaa attcatcatt 120
tccaccccag acctgtcgca atttgtatgt gtagacctgc cacatattgc gctgaacctt 180
gggtcatttg atggcatttc cgtcggcgcg atagagctgg ttaccgcagc tgatctgcag 240
caatactctc ccactggctt gatcccagcc aagcgatcgg tccgtgatct gtgtgtactc 300
atctacacct ccggcacaac aggcaacccc aaggcatgtg ctattcgcaa catgatgaac 360
atggtcacgt cgaatcctct gagcacggat gtcagaaacc ccgccaaata ctacccactg 420
cgcacctatt cctctcttcc actcttccat ggcaccgcat attttacggg tctatgctac 480
tcggtcggca atgcaggcac cctgtgtttg cgccgcaagt tctccgcctc ccaattctgg 540
aaagatgttc atgactcgaa agccacccgt atcctgtata tcggtgagct ctgtcggtat 600
ctgctcgcca cacctccatc tccatacgac caagaccacg cctgcattgt cgcgtcaggc 660
aacggattac ggggtgagat ctgggagcgg ttccggcaaa ggttcaacgt ccccgagatc 720
cgcgaattct atcggtccac cgaaggcgtg gccaagttcg acaatcacgg cgtgggcgca 780
tggggcgcag gcaaaatagg gttctcggga cccatccgac gaatccttgg aggaagaccg 840
tcttcatcgt ggaagattga tcccggatac cgagataggc cggcccggga cccaaaggac 900
cgggttcctg gttcaaagng ccaacttggc ccaagaagga aaaggcccat ggcccgaatc 960

aagggaccgg aactttgttg a 981

<210> 1961
<211> 480
<212> DNA
<213> A.fumigatus

<400> 1961
acagcgtccg ttccaatccg agtcaacatg gtgtccgaat ttgagaagca ccgccagtcc 60
ccttctttgc acagcgttac acaaatagag ctgggggact gcggatcctc gagcaccgtc 120
tgccagtcac gatatcaacg atggacccgg agcttcaaga ccttagaaac ccggggaatt 180
gagcctgttt caccagatga tcgtcagaag cccaccacgt cggacttgtt ccacatgctc 240
ttgatatggt tcagcatggg aatggcagta aatcacatgg ttgtcggttc gataggaact 300
ctggtcatga atctgaactt cacggacgcc gccctctgcg ccgtatttgg aaacctgatt 360
gggggtttgg cggtcggcta tatgagtacc tggggtccta ggagcgggaa tcgcacactt 420
gtatggccat ttacgatcag ttccctcctg tgttcacgac gggtggaaga taacgcgtcc 480

<210> 1962
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1962
agtagaggta ggaagaaaag ggcgatggtg gaaggagcag gaggcagagg ccttttcaga 60
gggaatcaac gtgatctaac tgcccgtgat attggcttca catcactttt gaatggacca 120
agtgaattca gctttaccaa gtacgttata cctgccccaa cactattgac cggacttccc 180
acagcattcc ccgattacca ccccgggaga atacgccttc acctggcgaa tgccgaacaa 240

<210> 1963
<211> 201
<212> DNA
<213> A.fumigatus

<400> 1963
ccgcttcccg acgccgcaga gccggatggc ttatgtaaac aacccctgaa gggtgcgccg 60
tacgcccaga ttctccccta tatcaagaag ggaatttgca cccttaacga ctaccaagac 120
atcctggaca tcctggagcg cgcctttggt gaccctaacc gcgtgaacaa tgcccgaaac 180
gagctattca gcctgcgcta g 201

<210> 1964
<211> 219
<212> DNA
<213> A.fumigatus

<400> 1964
cccccaccta gtaccttcca gcggcgtctt ttaaaacaga ttgctgtagc cggtctgagt 60
gtcaactacc tcgttaacta tttctgttta cctgtgatcc agtaccttga cacctccctt 120
ggagttgaca ctgtcagaat gcccaccccc ctgcccccat tcctgcctgg tgaccccgaa 180
gagttctccg agcacgttgc tagccatagt actgaatag 219

<210> 1965
<211> 237
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222> (82),(117)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1965
gtatattttg cttttacatg gccttttata attaagttct taagatgggt tagtatgttc 60
gcctgtgaca atcgaacccc tntacggaat attgaatata gatttttccc gtcactntac 120
cccgagttca gacattgtga tttgaagcgc tcggcagata tcgcttgggc caaacaggcg 180
ctggtcaagt ctcaaaaata cagcagcttg tgcatcgtgc agcattctat ggattaa 237

<210> 1966
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1966
acggataacc ttaagatctg gagtctcacg cgctaccaat tacgccacag ccccgaatgt 60
atatactttg tgctgattta tgtagctaag tgtgctaata gctcccgtaa agccagctct 120
ctgctactgg tgcacaaatt gttacatatg caatcatgca acaaacatga ggtgccttgt 180
tga 183

<210> 1967
<211> 225
<212> DNA
<213> A.fumigatus

<400> 1967
ctaagtgtgc taatagctcc cgtaaagcca gctctctgct actggtgcac aaattgttac 60
atatgcaatc atgcaacaaa catgaggtgc cttgttgacc aacttcctga ttacttctcc 120
ttgtcaaacc atgtttacta ttatataaga gacacggagt catatatgag caattatgat 180
tttagatcat tcagcacccg aaccagcaag tctagtttta tctga 225

<210> 1968
<211> 477
<212> DNA
<213> A.fumigatus

<400> 1968
caatgccgca attataagaa ctatccgacc acatccatta tgaacactga gctccatcag 60
gtcctgaatg tttgggaccg tatccgtgtt aacagcccaa tatacgcgtt ccttctcaac 120
gacgttgaaa tctatagcgc gcaaaaaggg aaaattaatg ctcgcgttcg tgttacttct 180
catcatttga attccaaaaa cacactgcac ggtgcttttt ccgcatgtgt cactgattgg 240
gctggtgggc ttgccatcgc gtcctgtggc catgactcta caggtgtgag caccgacatc 300
catgtcaatt acatgtcaac ggccacgaca ggggattggc ttgagatcga aggatgtgca 360
gataaggttg ggaagacact tgctttcacg acagtaatca tttccaaaaa atcagaggaa 420
gggaagatga ctatcgttgc caaaggttca catacgaaat acctcagaac cacctga 477

<210> 1969
<211> 648
<212> DNA
<213> A.fumigatus

<400> 1969
ccaagcaggt cgagggcgtc atcgacgacc tcatctccaa gaaggacaag ttcgtcgccg 60
ccaacgccgg tggcactgtc tacgaggacc tcaaggccca gtacaccgct gccgacagcc 120
tggccaaggc catctccgcc aaggtccctg agtccctctc cgacatcgcc gctcagctgt 180

ccgctggcat taccgccgcc attcagaagg gtatcgacgc ctacaaggac gccgccagct 240
ctaccggcac tgcttcctct tctgcccctg ccactgagac cgcgaccgcc accgagacct 300
ccactgccac tggcaccgtc accgagacgg ccacttccac ccctgtcatc cccaccggta 360
ccgcgtctgg cagcgcctcc gctaccccct ccaccaccgc tacccccacc acgggcggct 420
ccggctccgg ctccggctcc agcactggta ctgccactgc ctccaccagc accaacctcc 480
tctccactgg cgccgccagc aaggagcact tcagctactc cctcggcggt gccgtcgtcg 540
cggccgccat cgccgtcgct ctctaagcgc cctctttctg actttgccta ttggctctct 600
gagtcaaaca caagtcggac ggcggacggc ggaaaagcac cccaatga 648

<210> 1970
<211> 396
<212> DNA
<213> A.fumigatus

<400> 1970
gaccgcgacc gccaccgaga cctccactgc cactggcacc gtcaccgaga cggccacttc 60
caccctgtc atccccaccg gtaccgcgtc tggcagcgcc tccgctaccc cctccaccac 120
cgctaccccc accacgggcg gctccggctc cggctccggc tccagcactg gtactgccac 180
tgcctccacc agcaccaacc tcctctccac tggcgccgcc agcaaggagc acttcagcta 240
ctccctcggc ggtgccgtcg tcgcggccgc catcgccgtc gctctctaag cgccctcttt 300
ctgactttgc ctattggctc tctgagtcaa acacaagtcg gacggcggac ggcggaaaag 360
caccccaatg atgcgaatgg aaccttgatg accaat 396

<210> 1971
<211> 876
<212> DNA
<213> A.fumigatus

<400> 1971
tactaccctt cgttggtcaa aatgcgtttc tctgccctcc tcgtcactct cggcctcacc 60
ggtgccctgg ccacgcccac cctggtctct cgtgaggccc ctgccgtcgg tgtcatctcc 120
gacatctcgg cccagacctc tgctctggcc tccgccgtct cctcctacaa cggtggtgac 180
ccctccgccg tcaagtccgc ctctgagaag cttgtcagca ccatcaactc cggtgtcgac 240
accgtcaaga gcggccctgc cctcagcacc gctgatgctc tggctctgac ctctcccgtc 300
caggacctga ccaagcaggt cgagggcgtc atcgacgacc tcatctccaa gaaggacaag 360
ttcgtcgccg ccaacgccgg tggcactgtc tacgaggacc tcaaggccca gtacaccgct 420
gccgacagcc tggccaaggc catctccgcc aaggtccctg agtccctctc cgacatcgcc 480
gctcagctgt ccgctggcat taccgccgcc attcagaagg gtatcgacgc ctacaaggac 540
gccgccagct ctaccggcac tgcttcctct tctgcccctg ccactgagac cgcgaccgcc 600
accgagacct ccactgccac tggcaccgtc accgagacgg ccacttccac ccctgtcatc 660
cccaccggta ccgcgtctgg cagcgcctcc gctaccccct ccaccaccgc tacccccacc 720
acgggcggct ccggctccgg ctccggctcc agcactggta ctgccactgc ctccaccagc 780
accaacctcc tctccactgg cgccgccagc aaggagcact tcagctactc cctcggcggt 840
gccgtcgtcg cggccgccat cgccgtcgct ctctaa 876

<210> 1972
<211> 918
<212> DNA
<213> A.fumigatus

<400> 1972
gcaaagtcag aaagagggcg cttagagagc gacggcgatg gcggccgcga cgacggcacc 60
gccgagggag tagctgaagt gctccttgct ggcggcgcca gtggagagga ggttggtgct 120
ggtggaggca gtggcagtac cagtgctgga gccggagccg gagccggagc cgcccgtggt 180
gggggtagcg gtggtggagg gggtagcgga ggcgctgcca gacgcggtac cggtggggat 240
gacaggggtg gaagtggccg tctcggtgac ggtgccagtg gcagtggagg tctcggtggc 300

ggtcgcggtc tcagtggcag gggcagaaga ggaagcagtg ccggtagagc tggcggcgtc 360
cttgtaggcg tcgataccct tctgaatggc ggcggtaatg ccagcggaca gctgagcggc 420
gatgtcggag agggactcag ggaccttggc ggagatggcc ttggccaggc tgtcggcagc 480
ggtgtactgg gccttgaggt cctcgtagac agtgccaccg gcgttggcgg cgacgaactt 540
gtccttcttg gagatgaggt cgtcgatgac gccctcgacc tgcttggtca ggtcctggac 600
gggagaggtc agagccagag catcagcggt gctgagggca gggccgctct tgacggtgtc 660
gacaccggag ttgatggtgc tgacaagctt ctcagaggcg gacttgacgg cggaggggtc 720
accaccgttg taggaggaga cggcggaggc cagagcagag gtctgggccg agatgtcgga 780
gatgacaccg acggcagggg cctcacgaga gaccagggtg ggcgtggcca gggcaccggt 840
gaggccgaga gtgacgagga gggcagagaa acgcattttg accaacgaag ggtagtatta 900
gagattagtt gtatctaa 918

<210> 1973
<211> 543
<212> DNA
<213> A.fumigatus

<400> 1973
agacagatgc ccattttcgc catcacgcat tggtacgcct tctcctggca cgactacgcg 60
gatcccacca tttccgccgc tcggctgccg gttgtgtatg cgcttcgaga tgcctttgga 120
gccaaagatc tggtggaaga cacgaagatg actcttcggg gtgagaacta cgagtacagg 180
cgatttgatt ccggggatca tatcatcccg catgctgagt ctaaatctcg agttaaacgc 240
gtcatggacg gaatgcggta cgagcgaggc ggaaaggcaa agtactggat tcccaagcca 300
ggagaggtca acagtcgaac tcctttactg gctgatgcag aatcaagtaa ccggagtcga 360
agaagcagcg ctctggagcg cttccgttca aatagcgaca tggaagaaac cactctggat 420
ccagacgacg aggatttgtt caccaaagct cgcgcgttag agtttggaga ttggaatgta 480
agtcttgccc acattgacga cgaagaacga agtggagagc tgatttttc cagtacccgg 540
taa 543

<210> 1974
<211> 498
<212> DNA
<213> A.fumigatus

<400> 1974
cctgtacctc ctgatatcat tgatagatgc atctacttcc gcgcgtttca aaggccactt 60
caaggctcga aggccaaata tcttcatcgg tttctgtgtc gttctaggct caataacctt 120
cttcaagttc gcaagggtgg aaatgcatct ttccagatcg tcgaagagcg accgggacac 180
agcaagtttc gagccatttg ggccttcaag gagctgctta agcgcggtaa gtactcctgt 240
aagtgcattg gtctcttgtt gaaggttgac gatatctttc ctagcaactt tcactttatt 300
aacgtattct ccacatattt tcacgatgct cccagccagc tggataacac tgataacact 360
ggctgcactg gaaagagggt ctataatcag aggggttgca gggtgcaaga ccgttcgatc 420
ccttgccaag gaaatgatgg gaaaagtgct aatgaagtat tgatggagat atttgaaaga 480
aagaggggca ggtgctga 498

<210> 1975
<211> 363
<212> DNA
<213> A.fumigatus

<400> 1975
cttctgcatt tctttagggg atttacaact catatcgacc acagcattag tttgagcaga 60
ttacggactg caaaaggagc cgcatttaat tcttatgaga accagcatga tgaatgcctc 120
ctggggactc ggactaaact gctcagcgat attgagaagt gggcaatatc accacaggga 180
aaatgcatat tctggctgta tgggatggcc ggaactggga agtctacaat ttccagaaca 240
gttgcacacc gtctgaaaaa gaaagggcca tttacggcga gtttcttctt caaaaaaggc 300

gaaaaggatc aaaggagcgc ccaaaacccc ctttccatta atgataacca ttccccgatc 360
tga 363

<210> 1976
<211> 435
<212> DNA
<213> A.fumigatus

<400> 1976
acggtgtcct cgtctcgtgg atcaacgagt ggtccggcga ggctaagacc tccgacgctc 60
ccgtctctca ggctactccc gtcagcaacg ctgtggctgc cgccgccgcc gcttctactc 120
cggagcccag ctcttcccac tccgacagtt cttcatcctc cggcgtctcc gccgactgga 180
ccaacacccc tgccgaaggc gagtactgca ctgacggatt cggtggcagg accgagccca 240
gcggctccgg tatcttctac aagggcaacg ttggtaaacc ctggggcagc aacatcatcg 300
aggtctcccc cgagaacgcc aagaagtaca agcacgtcgc tcagtttgtt ggcagcgaca 360
ctgacccctg gaccgttgtc ctcgtggaca caaggttttc acactcgccg aatggccgga 420
tcaacgctag taggt 435

<210> 1977
<211> 603
<212> DNA
<213> A.fumigatus

<400> 1977
atcacacaag tccatccttt cttcgcaatg cagctcaaga attcgatgct cctactcacg 60
gcgctggccg ctggctcttc ggtcgcccgt ttgcacggcc acgagcgccg ccacctccac 120
catgcgggtg agaagcgcga ggtcggcgac actgtctacg ctactataaa cggtgtcctc 180
gtctcgtgga tcaacgagtg gtccggcgag gctaagacct ccgacgctcc cgtctctcag 240
gctactcccg tcagcaacgc tgtggctgcc gccgccgccg cttctactcc ggagcccagc 300
tcttcccact ccgacagttc ttcatcctcc ggcgtctccg ccgactggac caacacccct 360
gccgaaggcg agtactgcac tgacggattc ggtggcagga ccgagcccag cggctccggt 420
atcttctaca agggcaacgt tggtaaaccc tggggcagca acatcatcga ggtctccccc 480
gagaacgcca agaagtacaa gcacgtcgct cagtttgttg gcagcgacac tgacccctgg 540
accgttgtcc tcgtggacac aaggttttca cactcgccga atggccggat caacgctagt 600
agg 603

<210> 1978
<211> 207
<212> DNA
<213> A.fumigatus

<400> 1978
atcatctgcc ctatacagac tcgcataccc cacaccgcat ccagcatcct caaccatcaa 60
agctgtaccc ttttgctttc ttttccattc ttatttatta ttatcataga aaagattaat 120
tcttatcagg tccaatacaa tatagtcttt aatttctgtc aacaagaaat aattaacatt 180
gtgattccta tatcagggaa tatctag 207

<210> 1979
<211> 249
<212> DNA
<213> A.fumigatus

<400> 1979
actcggccac cgggctgcga ggtcgatggc gtgggaatcg tgaccatcat tgacaagcca 60
actggcccgg aattgcttct gcaaaagcag tacaggccgc ctattgacaa agtggtcatt 120
gaagtcccag cgggtcttat tgacgccggt gagaccgttg aggaatgtgc ggtgcgcgag 180

ctcaaggaag agactggtta tgtgggagta gcagagcaga caagcactct catgtttaat 240
ggtgagtga 249

<210> 1980
<211> 366
<212> DNA
<213> A.fumigatus

<400> 1980
cagagcagac aagcactctc atgtttaatg gtgagtgatg cattgatact acacgcaatt 60
ttccgtgatc aagccccggt ccaaccctct gaggcgtggt gcaagacact gattgagggc 120
atcacagatc cggggatgtg taacactaat ctgaacatgg ttcatgtgcg tgtggatctg 180
tcacttcctg aaaatcagga tccgaaaccg caactcgagg acaatgagtg tatcgaatgc 240
ttcactctgc ccttgagtac attgttttcc gagttgaaga gactcgaagc tgatggatat 300
gccattgatg cccgcgtggg aacattagca gagggcatcg aactggcgaa caaactgaag 360
ctttga 366

<210> 1981
<211> 831
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(9),(36),(71),(75),(76),(78),(82),(83),(84),(86),(89),(90),(115),(123),(138),(1
47),(148),(291)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1981
caaaaaccna aaaacccccc cccaaacaaa ccaaancaac ccccccaaac cccccaaacc 60
cccccccaaa nccannanaa annncnttnn ccctttacac attccctccc gcaanccatc 120
atncacgcca tctcctcntc gacgcgnnaa atggtcgcct gcctcatgat gacacccgcg 180
agggttctaa agcagaacgc gcaggttacc aacgtgaaca ccggcaaggg cggccagaac 240
gcaaagagcg ccatgacgca ggttatcgct cggttcaagc atcggccatg naagctgtgg 300
agcgggtaca cggcgctggt ggggcgcaat ctgcccttta cggggctgaa tttccccctg 360
tttgagcttt tcagatcgca tctcgtggag tggaggaaga ggcgcaagga ggacgatgcg 420
atgcagacgc gggagtgggg tccggtggtg gagagggcgg cgctgacggg gatggcggcc 480
tccatgtccg ggatgatcgc gtcggtcgtg acgaccccga tcgatgtgat caagacgaga 540
atgatgcttt cagccagttg tcataacaat gatgacagca ataagagcac gaagaagaag 600
atggctggct ggggaacgct tagggtgggt aaggagatct atcgcaatga agggatcaga 660
ggtctcttca agggcggcgc aattcgcgct gcgtggacgg ctgcatcgct tagtatgtat 720
ctgagcattt acgaggggggg aaggttctat ctggagaata gacggcggga gaaacacggg 780
ttgaacacac gggttgaggt agatggctcg aaagaagagg ctgccatcta g 831

<210> 1982
<211> 384
<212> DNA
<213> A.fumigatus

<400> 1982
gacatgagga ccagccggtt gaccgtcgcc cttctggagg agcaagattt atgggagagc 60
cggagagctt ggcgcgacgt cgcatccgcc atcgagcgcg gtgacatgga cgccacctcc 120
gtggccaaat cgaagattga gaacgctcaa cgcgagctcc gcaaagtcga aaaggccgaa 180
aaccgggaat gggagcgccg gttcttcaag cgcgtcgatg aaacagccga cgaggagttc 240
cagcgtctgg ctcggatggt cggcctgact tcactcgaga gtgataagac cggtggcgtc 300

tggcgtttcg acaaggagcg cgccgcaaat gccaagcctc cctatcacca gattggtggc 360
gagggactcg gagtgtccga gtaa 384

<210> 1983
<211> 429
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (328),(414),(422)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1983
aatcgtcgac tacgacccct cctggccaac caccttcgcc tccatcgccc agcgcatccg 60
atccgccctc ggcgccaccg ccctcagtgt cagccacgtc ggctcaacga gtgtccccgg 120
cctgcccgcc aaagccatca tcgacgtcga cctcgtcgtc ccagacccca ccgccgagga 180
cgagtatgcc ccggccttgg aggccgccgg gttccagttc ctcttccgcg agccgaactg 240
gtacgagcat cgcttctttg ggctggcgga gccatatgcc aatgtgcatg tgtttgggcc 300
gggggcggcg gacctgatcc gccaccancg gtttcgggag tggttggtgt cgcatccggc 360
agatcgggaa ctgtatgtgc acggcgaaaa aggaaggtgc cccggaaaaa ccangaaaaa 420
cnggctagt 429

<210> 1984
<211> 678
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (576),(662),(670)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1984
gacatgcatg cagtagtgcg tgcagataac ctcacaatac cccaaatagg ccatgccacc 60
tcgtattcgc aatctgaccc cagcacctta aatttggatg actcacagtc tggctacata 120
agccttctgc ctctcactct attcgaacca ccagccatcc atccgtttac cagcatgacc 180
atgtccacag acaaatccgc cagacactac atcgaaacaa tctccacccg cccccagaaa 240
cccattgaaa tcgtcgacta cgacccctcc tggccaacca ccttcgcctc catcgcccag 300
cgcatccgat ccgccctcgg cgccaccgcc ctcagtgtca gccacgtcgg ctcaacgagt 360
gtccccggcc tgcccgccaa agccatcatc gacgtcgacc tcgtcgtccc agaccccacc 420
gccgaggacg agtatgcccc ggccttggag gccgccgggt tccagttcct cttccgcgag 480
ccgaactggt acgagcatcg cttctttggg ctggcggagc catatgccaa tgtgcatgtg 540
tttgggccgg gggcggcgga cctgatccgc caccancggt ttcgggagtg gttggtgtcg 600
catccggcag atcgggaact gtatgtgcac ggcgaaaaag gaaggtgccc cggaaaaacc 660
angaaaaacn ggctagtc 678

<210> 1985
<211> 240
<212> DNA
<213> A.fumigatus

<400> 1985
acgacaagtc ccctttatca ggtaggcgac gaactctacg tgaacattgc tctagacttt 60
cggctgatgt tgtgcgtctc agactgcaag ttcaacaaag acgcacccaa cgtggtacat 120
atgacagtca agcctcaaga aattgtcgac gaagaagacg ccaaggcagc caaagctccg 180

tatagccggg aacgcgaggc cagtgaacgc agtcctggat gtcgttgtat catccaatga 240

<210> 1986
<211> 237
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (40)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1986
gaaccactta ctaaagtcaa tccaagaccc aaccaaaccn tggaacacca accccatgat 60
atcagtgact acgctagatt tgcaaacaca atggaattca actcgagtgg gaggcaatat 120
gagaataaga agtatgcgct aaacttctgt tccagaacag tagggactgc gtggcaagaa 180
gatcttgacc taggctgtct aggccaatct actagacctc cggttgaacg tccttag 237

<210> 1987
<211> 210
<212> DNA
<213> A.fumigatus

<400> 1987
acggagcttc cttggtctgt aaagatgcat gatcatattc cagttgaatt agtcttttta 60
cagactaatg ggtggaactt ctgtcatatt cagttgccta tttctcatgc tggtgactac 120
gacaaaaagc aggatttagg tgatgtaact gaagttacta tatgcactta tttccaatct 180
atctataata gtgacccggg aagctcttaa 210

<210> 1988
<211> 261
<212> DNA
<213> A.fumigatus

<400> 1988
tggaaataca ttcataagcc aggctactct ccgaacaacc taaatcttag tgatcttcaa 60
tccagtcgct tgctccggtc catgacatgt gtcaaggtgc gcttctgtaa cgcagatgac 120
cctaactgtc atggcgcgca tattcatttt cgcccgaacc ctgcgcacgt cggcgctact 180
ctatacatgt gccaaggctg gcacaaattt atcacccagg gcatacggta cattccatgt 240
agctatgaca tgcaagaata a 261

<210> 1989
<211> 414
<212> DNA
<213> A.fumigatus

<400> 1989
gcttgttctg aggctatcat taacacctgt tcaagcggct catggccaaa gacctggata 60
attgggaaca aaaacgagtc cagagattta agggggaacc cgatggaaaa ctttaagctt 120
ttaatagctg aacaacgcct ttcaaataca ggcgctgctc ttactggttt ccagaaggaa 180
atttttgact ccccttatgt tagctgtggc agccataagg gaaccacatc tgatgatgac 240
atgaatttga aacctaattc tcttcctggt gagaggcctt ctttttaac tcttgcatgt 300
ctgataagcc tagagctaac ccaacccaat aaagtatatc catttgtcct agaactcaag 360
ctaagcaagc caaatcgcct catttgccat ggtatcttag acctccattt ataa 414

<210> 1990

<211> 348
<212> DNA
<213> A.fumigatus

<400> 1990
tggtcagcct tcaatatgcc tgtttttcag gcaaaaccat tccggcgggc gacaacagcc 60
tcatcgtcgc taggagaacg gatcggcgca gcatatagag gaaacctcca aaagcatcct 120
tttctgctct ttggtcttcc attcatcatg atcattgttg ccgggtcttt cgccttgact 180
ccagccgccg ctttaagata tgaaagatat gaccgaaaag tgaagcaact cacacaagag 240
gaagctatgg agttggggct caaaggggca gatggggaag agggaatcag aaggaatccg 300
cgcagaagag tcctcggaga tgagagggag gaatattatg tgagttga 348

<210> 1991
<211> 186
<212> DNA
<213> A.fumigatus

<400> 1991
catctcactg atctcatgac tatatatctt gccctgcggg taaacttcgg ccttgacaat 60
gtggattgca tctatatctt cgttccttac tggtggacat tggcatggca ttgcaacaat 120
gtcattcatg atatctctag gtctgacatg cctctacgga atgtagggcc gacttccccg 180
ggatga 186

<210> 1992
<211> 183
<212> DNA
<213> A.fumigatus

<400> 1992
atggatagct tcatatgctc gtattcccgc accaatcgaa ggggtcctat tggtgcatgt 60
atccctcttc ttactgtaga tctaactgac aagtacagca cagatgagaa gtggtcatca 120
gacaagctta tctcaatcga tacaaacagg gacgtcttca ccacggggct ggaaggatcc 180
gcg 183

<210> 1993
<211> 279
<212> DNA
<213> A.fumigatus

<400> 1993
gataatgcgg taaacggctt gaatgtaatc catgtcagcg gcacgaaggg gaagggtagc 60
acctgcgctt ttacacgcag cttccttcgt gcacatagcg tgaggacagg gctccccaag 120
aagattgggc tctatacggg gccacatttg caatgcgttc gcgaacgaat acagattgat 180
gaccatccag tcgcggaaga attgtttacc cgatatttct tcgaagtgtg ggatcgcatt 240
atgcctgcgg atatagaact ggatgcggga gtcgcaaag 279

<210> 1994
<211> 327
<212> DNA
<213> A.fumigatus

<400> 1994
ctttgcgact cccgcatcca gttctatatc cgcaggcata atgcgatccc acacttcgaa 60
gaaatatcgg gtaaacaatt cttccgcgac tggatggtca tcaatctgta ttcgttcgcg 120
aacgcattgc aaatgtggcc ccgtatagag cccaatcttc ttggggagcc ctgtcctcac 180
gctatgtgca cgaaggaagc tgcgtgtaaa agcgcaggtg ctacccttcc ccttcgtgcc 240

gctgacatgg attacattca agccgtttac cgcattatcc tagaacaagt cagtcgccgc 300
tgtgtcgctg ttcataattc gtactga 327

<210> 1995
<211> 438
<212> DNA
<213> A.fumigatus

<400> 1995
ctgcaggcca cgcagcatcc caatcttcca gcatccgcag caactctttt caaagccaag 60
gcccagaaga agctcagctt cgagcaaatc gcccaacata tcggccgcaa tgaagtcgcc 120
acagcagccc tcttctacgg ccaggcaaag gcctcccctg aagacatcca gaaactgtca 180
gagctgctca atatctcacc tcaggttcta gaggagcagc tgagcggctt tccggaccgc 240
ggtcgctccg ttgagatgcc gccgaaggag cccttgatct accggttgta tgagattgtg 300
cagaactacg ggtacgcgta caaggctgtt ctcaatgaga agtttgggga tgggattatg 360
agcgctattt ccttttcgac caaagtggag aaggagacgg aacccgatgc caaaaaaagg 420
gggcggttaa aattctga 438

<210> 1996
<211> 243
<212> DNA
<213> A.fumigatus

<400> 1996
tgtggtcagt tgggtcgatt ccagaagatc tttgcgtggg ggattatacg ctatgtttac 60
cgatacttcc aatcgttaga agagaaaggt gaggattgtt cttctattag tggagcgacg 120
tcagcctttt ataaagtgat gcgggacatc ttctctaata ctgagatcac cctgtgcggg 180
gagagaaagg taaggcaatt gtcactgata ggtaatcttc tcttaccatc cgccctcagt 240
cgc 243

<210> 1997
<211> 393
<212> DNA
<213> A.fumigatus

<400> 1997
aggggttcac ggagtcaggg acggcggcgg atatgggcaa gtggtagaat ctggcgacat 60
tcgacctcat cggagatgtg gcctttggcg agccgtttgg agggttggat ggcgacgatg 120
gttgagtttg tgtctgcgta ctcatctccc aggaatttcc accaagccga ccgatctatc 180
cctgagcgat ggctgcccca ggtgatcgag aaccctgcct cgcccttctt tttggataat 240
cgcgccgtct ttcagccatt ctcgatcagg ccacggaatt gcctcggcag gaacctggcg 300
tacactgaga tgcggatgat ccttgcacgg gggctttgga cttttggctg ctctgtgaag 360
agagtcgtga ctggacggat aggggcccat tga 393

<210> 1998
<211> 267
<212> DNA
<213> A.fumigatus

<400> 1998
ttcatcaccg cccaagcatg gaaggatatt tacggccatg gccaccttca gctcccgaaa 60
gtgcaaatct ccaccatcaa cggcaagaac atcttcgcca ccaatgacgt agaccatgct 120
cgtttccgga aggcgctctc ccacgcgttc tcagccaaag ggctgcaggc acaggagtgc 180
ctcgtcacac ggtacatcga taaacggatc gagcgactga aggggttcac ggagtcaggg 240
acggcggcgg atatgggcaa gtggtag 267

<210> 1999
<211> 1068
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (13),(116)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1999
gcatcagggc ggntggcccg cttcgagttc gaggttggaa aaggaaatga tggcactaag 60
attctcatga tcgaatggga tgacgaggac tcgggccgct cgtcgaattg cctggnaggc 120
tcatggcacg tttcatggga gggcaagacg acggtcctcc cagccgatga gcgaacaagc 180
gaaaacactc gccgcttcta cttccttttg ccgcctcatg ctaccattcc tcccgtggtg 240
accttatcct acgagcctcc cgccacatgt tcgacatctt cgacaccgac acagaagacc 300
agttcgcttc aactgaaccc gctacctgct atctttcctc cggagttagg tgccactggt 360
cgctcggccg gaaagaaggg tgttttgcat acgatctggg caaagaagcg gctgcaggtc 420
ttggacaagg agatacggga ggaatgcatg aacaatgcgg aaggtgttgc gctgcacatg 480
gcgctgcagg agaaggaatg gattgagagc aatttcggag tgggatccaa gtcggaagcc 540
cagacgcaga gcatgcaaga ttcgcaatat ccgatgggtc ccgctacgcc agtgtctccc 600
actagcggag gtaagctggg cgagaagctc aagggactca agttgcagac cagtcagcgg 660
gaactgtccc caaaggcgga tggtatgggc tcgtcgcgtt cctccagttc gatgccaact 720
aacggggtag tagcatcctc gaacgcgcgc catctccttt ccccccagtc gcctgacgtg 780
gccgtctctt cgttcaactc cttccacaca atgcaaccca tgtccaacgt tttgcatccc 840
tcccccgcgc cagataccag tcttcggacg gtggtgcact atccgccgga atccatccaa 900
gcacaacaaa acagcagtga gcacaacagc gggtttgcat ccatgactac aattacgcgc 960
acatcaagcg ccgactccgg cgaggacctg ttcgccaaag cgctgagtcc cagatcgccc 1020
gacctgccgc ggagtccatt ctcgtttgcc cccgagacag tgatctga 1068

<210> 2000
<211> 201
<212> DNA
<213> A.fumigatus

<400> 2000
cgatctctca gatttgcaac cattgcaatt catcaaccca cacttctcaa ggacaagata 60
ttcatttttc gtatcattct ttgccatctg aagtacagct tcgcactttt tattgttgct 120
atctataaca ctcaccaaag aagttcccca actatcatat ttctgcaacg ttgcgggctg 180
gcacccacca aaagaccctg a 201

<210> 2001
<211> 927
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (740),(743)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2001
ttttcctgcg accacaagat actccccaca gaacggaaat atctaactcg cagaatgtac 60
tacccaggca ttaactcact actactatgg cttctatgct ttgctccccc agggctcgca 120
tacggcagat cttcagaatc gccgcccggg ccaaatgcca tactcctctc gcgagtacag 180
tcgctgactc tacgcgccaa tcgtctcacg tcctctcgcc gtgtttcccc gattccacag 240

ctgaaatgcg tgggaccctc aaagaccatc tgtgacaagt acaagataga gactatgcga 300
tgcacgaatg ctggatacga ctacgacgaa gaagatgtcc agtggacgtg cactgcacag 360
cttccggagg agttcatgtt gggcgcaaca gatgtgatct gcgagggata ccgaaatgcc 420
gatgacaagt gggtgttgaa gggcagctgc ggtgttgagt accggctact gttgacggag 480
cgcggggaga gccgatttgg cagaatacaa gaggatgata tgcggtccat cccgcttgcg 540
acaaaaggat ggcgccgagg gatggacgct ctagtggacc tcattttctt aggattctgg 600
gctgcggttc tcgttatgat tttctggcct atggtccgct cctgttttgg gctgcgaggt 660
cgtcgaggca ggaccaatgt tggacgaggt tggggcggat tttggggagg aggaggtggt 720
ggtggtggtg atcggggacn ccntcactct cggccctccc ctgggccgcc tcctcccttt 780
cttgcgctcc ccttatcttc ttccctctcc gcctccctct gtgtgtccgc cgggcttttt 840
ggtcccgtgc tgccgttggt ggcttttgtc ctgctcccat atgggttcgc cacgccttcc 900
gcttgccccc tcgtccctcc ctcctag 927

<210> 2002
<211> 423
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1),(4)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2002
nggngtcccc gatcaccacc accaccacct cctcctcccc aaaatccgcc ccaacctcgt 60
ccaacattgg tcctgcctcg acgacctcgc agcccaaaac aggagcggac cataggccag 120
aaaatcataa cgagaaccgc agcccagaat cctaagaaaa tgaggtccac tagagcgtcc 180
atccctcggc gccatccttt tgtcgcaagc gggatggacc gcatatcatc ctcttgtatt 240
ctgccaaatc ggctctcccc gcgctccgtc aacagtagcc ggtactcaac accgcagctg 300
cccttcaaca cccacttgtc atcggcattt cggtatccct cgcagatcac atctgttgcg 360
cccaacatga actcctccgg aagctgtgca gtgcacgtcc actggacatc ttcttcgtcg 420
tag 423

<210> 2003
<211> 450
<212> DNA
<213> A.fumigatus

<400> 2003
tatgacagct ctgatccttc caccccgtg gtgaagactc cccccgacca ccgcgacaga 60
gaaggattca agttcgagaa cccgtcgaca gactgcaaat acgtctcgca gatgcacatt 120
tgggactcgt tcaaagatct ggaaaaggat atgaacaaac tcttcactct catccacaag 180
aacgtgagtt tcaccgtggt cggacaccat cccatcgccg gtcactacaa cgacctgctg 240
catttctatg tcaatgccct gcgacgagtc agcgtgctgt tcctcgacca tgcagataaa 300
ttcgagatcc acccccaagc gatccatgga ggctgtaatg agcgatggtc ggttcaggag 360
gtcaatttcc gggggtaat gaattcaggt gaagtcacag ctgtcatctc agtgaacggt 420
gctgatatta gaacaataca caggagatga 450

<210> 2004
<211> 270
<212> DNA
<213> A.fumigatus

<400> 2004
acggtgctga tattagaaca atacacagga gatgactttg acattgtcaa cgtctgggta 60
actcgatggg atcgggggca gatggtggaa atccgcacat atatcgattc tgccaggatc 120

atggaagcgc tccacaagaa cgagatctgg tggaatggaa ccaccttccg agacaatatc 180
cactacatgc ctggtcctgc aggcatgccc gacctgaaga aattagagga tctcatgggc 240
tatccagatg gacggaagta tgaggattga 270

<210> 2005
<211> 348
<212> DNA
<213> A.fumigatus

<400> 2005
aatagagcgg ctctttccag ccccgtggtg aagactgcca cccagtctga aacacaccat 60
agcggcctgt cgacgccgtc caagcgcaaa agcgcacgcc ttgcgaaacg taagcattca 120
gaaaccgaag ataatatgga attgagcgca ccagaccgag catctgatgg tggcgatgga 180
gacctcttta tccaaggcat gtgcgatatt gtcatggtca gaattgacaa tttgcgcccg 240
actgaactac agttcaatga acaagatttc cttgatgatg agcttagtgg tgacgaagac 300
tggaatggta atgactttga cgctactgcg gcagggcatg catggtaa 348

<210> 2006
<211> 201
<212> DNA
<213> A.fumigatus

<400> 2006
cttatcgatg caggtcactt tcaatgggac ggtgtcgact tctctcattc tgcccaggat 60
gttcacttcg ccatcgaagg aggtggccag gttcccgtcc tccgggctca gttggcaaat 120
caggacggcg aattccaaga tgctgacgtg aatctgtctg agcgtattga aaatatcaat 180
ggcgaattcg ttttccactg a 201

<210> 2007
<211> 432
<212> DNA
<213> A.fumigatus

<400> 2007
caatatgcaa atacagagtc aatgacagat gaacaacctc aagcaaggct acaatgtata 60
ccgtgtggaa gaactaaaga acctgacggt aaagacgctg tgccaaatcc tgcgccgtgg 120
gatgatcgaa gatgttgcag atgggcacct ccagcccaac ccgtttcaac tgacggctca 180
accgccaggc ctggatcgag tcgccgccgg cctcgaagaa agagacggag caggggaact 240
catccagcga gacgcccaga caggtcgcca tctcacgctg cagaatgccc accagccggc 300
ggtagaagtt ccaatccacc ttggtcctgg ccgtcttgtg catggcgttc aggcgctcgt 360
ggatggcggc gcgagagagc cgatccgcca gcccttcgag gacacatcgg atgctgtcct 420
cgatggtggt ga 432

<210> 2008
<211> 1038
<212> DNA
<213> A.fumigatus

<400> 2008
tccttccagc ccggtggtga agaccaggaa cggaagttct ggtcgaagta tctcgagggg 60
gctccccagc gtctggacat cccgcggtat cccggccaaa tgacgtttga aggccgctcg 120
cgcgtgtccg agttcaaagg cgacctcgtt cgacgcgccg tcactctggg gcaggaacat 180
gggttgagtc agcaccagct ggtgtgtgcc gccgtcgcgc agaccctcca gtggctcgcc 240
ggctcgaacg acgtcgttct cggctctccg tgggccaacc gcgggcacac cgtggagcaa 300
gagtcgatgg gtctgttcct cgatcgcctg cctcttcgct tcaaaacccc tgtgaatgca 360
gactgcgcca ccatcctgca gtctacgcgt gcagcgagcc aggcagccgt ctgcaattcc 420

attccattcg agcaggtcct gaacctcctc cacctgccgc ggaccatcca gcaacacccg 480
ctgttcgaag ccatggtcac ctttcatctc aaggggggcag tggaagattg tctcgccatc 540
gaggggctgg aggtgaaacg cgagatgtgc tttgcgtccg gggccaagtt cctgctcatg 600
ttcgaatgga ccgagatcga ggcggatcac tggaccctgc gcatcgagta tgacgaccac 660
cagctcgacg acgcgaccgt caccaccatc gaggacagca tccgatgtgt cctcgaaggg 720
ctggcggatc ggctctctcg cgccgccatc cacgagcgcc tgaacgccat gcacaagacg 780
gccaggacca aggtggattg gaacttctac cgccggctgg tgggcattct gcagcgtgag 840
atggcgacct gtctgggcgt ctcgctggat gagttcccct gctccgtctc tttcttcgag 900
gccggcggcg actcgatcca ggcctggcgg ttgagccgtc agttgaaacg ggttgggctg 960
gaggtgccca tctgcaacat cttcgatcat cccacggcgc aggatttggc acagcgtctt 1020
taccgtcagg ttctttag 1038

<210> 2009
<211> 1065
<212> DNA
<213> A.fumigatus

<400> 2009
agacccgagg agggcaagga cttcgagacc gtcatcgatt gcgggcaaga ccagctggac 60
atggttgttc ctcagggtct cactgtccga gctgtggcgg agctttacgg tcctgaggag 120
agagtcgaag tcattgacgt caaatcgcag cagggcgagg acaaaaggtg gaacatgcag 180
aagtgggctg actattatga gagtaccggc tccaaggtcg ttcgcaatgt gatcagtttg 240
gaggtctcac aaagtaaatt gggcaaactg atacgccgac caaaaattgt gcgtgatctt 300
gacttgcagg atgcggtatg gcctgaagag ctcaaggcca tcggcgatta tccaaaagtt 360
caatttttact gcctgatgtc tgtcgctgac tgctataccg attttcacat cgatttcggc 420
ggttcttcgg tctactatca cattctaaaa ggcaaaaaga ctttttttctt catcccacct 480
aaagacaagc atctgaagaa atatgaagac tggtgcaact ctcccgcgca agactccacg 540
ttccttggcg accagaccaa agagtgttac cgcgtcgatc tgtccgaagg cgataccatg 600
ttgattccat ctggctggat ccacgccgtc tggactccca cgaacagcct ggtcattggc 660
ggtaatttct tgacgcgtct caattatggt atgcagatca aggttgccaa gatcgaaaaa 720
gataccaagg ttcctaggaa gtttcggtat ccgttcttcc agaggatcca atggtacacc 780
gcgttgaaat acctggagga cgatcctatc ccccaaagtg tgctcaacgc attcgctgag 840
gatgaaaact accggtttca cagagcctat cctatctact acgaattcgg ggagcgggaa 900
aataaggcgc ctgccgggga tccatatcac aattctcgat tttactccca ggccgaactc 960
gaggggcttc cagatcttgc caagtacctg cttcggacag cattaattgc cagtggctac 1020
atcgttgagg ggggtcttca caacgccggg cgaaggacca agtaa 1065

<210> 2010
<211> 591
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (60),(96)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2010
tctttccttt ctggaaattt acagcccaga atgtcggccc agcgacaagc ctcatttgcn 60
tcacagaccc cacacttttc accagcagaa ctttcntacc tttacacttc gcttgcgctt 120
cccgacagtc ccattcgacc agacgggcgc tctcccacac agttccgacc cttaacagcg 180
gagaccgaca tcctcccggg caccaatggc agcgcgcggg tcggattcgc agacggcact 240
caagccatcg tcggagtgaa agcggaggtg gagaagacag ccctggcggc agatgccctg 300
aaggtctcac aattgtcatc gggggatgat tacacggctg atcaaggcgc ggacggcaag 360
gaagggatgg gcgcagcggg cgggcacgaa tcgtgggtgc agatctccat tgagattcct 420
ggttttcggg acgatgatgc cttgcctgtt ttcctgtcgg agatgatgcg ggagccgctg 480

attgagtcgg tgtcaagtgc gcagggaggg gatgtggaga tggctggcgg tctgaaggga 540
aggctggtca tttcttcacc cacggaggct ggaaggaccc gcgtccaaaa a 591

<210> 2011
<211> 300
<212> DNA
<213> A.fumigatus

<400> 2011
tgccgtggtg aatgcgttgg aacgcaggat aatgtgctgt ggggttccgg tttcactgga 60
aaccctgact tctggcttga ctcctgtccc gacctgcggg agattggaaa gtcggtatgc 120
gtcacggcct acaccgtgat cgtgtggacg tcgctcagag tcgatgccaa gggctcgaag 180
atgtgcgcca cgacgtctgg ggacacaacc agaacaacca ggttgaacaa gtcaatgatt 240
cctgagcctc gctgtgtgct ccacagtacg acagttcaac tccgttcgga gtcggcgtga 300

<210> 2012
<211> 246
<212> DNA
<213> A.fumigatus

<400> 2012
ccgaggtttg ggtacaccag ctcgaacccg ctatggatca cgacgatcaa tctcccagca 60
ggaacgacgt tccaatacaa gtttatcaaa aaggagactg acgggcgcgt catctgggag 120
agtgatccaa accgcagcta cactgttccc accggatgct caagtaccaa cggtacagca 180
accggtaggt tggcgggaga attaggaagg ggtatgggaa aatgctgggt tgacttcctt 240
tcttaa 246

<210> 2013
<211> 489
<212> DNA
<213> A.fumigatus

<400> 2013
ctggagcaag tagtggacga agatttcccg cctctgggga ctccgctcaa ggacaagcgc 60
cccgtcgaca gctttggctt cctccttcga tctcatcttc caaatgacac tcaagggacc 120
actcgcgccg gaaccccgac acttcccccc ggtctccctt tgccgcacgc tcatccggca 180
tcgtcgttgt tccagagtcc tttgaatccg tcgagcccgt ctctatcgat atctatgcca 240
ccgcctggcc tcaacatcac acgttctaag cctggaacac cgtctcagaa cttctccgag 300
attgaatctc agcggccgtc tccagagcct cgagaaactc ccgaaagcgt tcctcctagc 360
aagttcaaga acatttcgga gatttccctg ggttcccctt tgccaaagtc cgcacagata 420
gctcggacac aggctaaacc cgagctctca gcaagtgtct tcaccacggg cgcgaaggac 480
acgcataag 489

<210> 2014
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2014
acgcttagcg cgggtccttc gacccccgtg gtgaagacga agcaagcccg aagcttattg 60
catccggtcg aacgccagca gcacgcaaac aagctaccga agcggcggaa ggccaggagg 120
aagccaatct ggaggtggaa aaccgaaacc gtatcaccat ggcggccgtg ctcgatcctc 180
gtccgaaggc gaggatgcgc tgggagcgca agatga 216

<210> 2015
<211> 795

<212> DNA
<213> A.fumigatus

<400> 2015
cgcgggtcct tcgacccccg tggtgaagac gaagcaagcc cgaagcttat tgcatccggt 60
cgaacgccag cagcacgcaa acaagctacc gaagcggcgg aaggccagga ggaagccaat 120
ctggaggtgg aaaaccgaaa ccgtatcacc atggcggccg tgctcgatcc tcgtccgaag 180
gcgaggatgc gctgggagcg caagatgatt gttcgggaag tacgtcgtcg gggccgtctg 240
acgaagaccg agcggatcat gcgaacggag cgcgagtcac tatccaagtc ccattggttc 300
aagacgtccg tgaagaagct gggacctctt gcacgtcaga tcgcaggaaa gaatatcgac 360
gaggctatgt tacagatgcg cttcagtaag aagaaggtcg ccaaagacgt ccttgaacac 420
ctcgagcacg ccaagaacgt tgccattgtt cggtcaggta tgggtctggg caacgccgca 480
gatcagaagc cgatcaccat tactctcaaa aatggtgaac ggaaaacgat caccaaccct 540
tcatcaattt acattgccca ggcttgggtc aaccgaggtc catacggagt cgactacgac 600
catcgcgctc gaggccagat taatcggctg cggccccctt acacttccct gagcgtcttg 660
ctcaaggaag agcatacccg gatcagagag tggcgggacc gtgaggctga ggcactgcgc 720
aagcggaaag cccaactctg gacccagctt ccggaccgga agatcaccgc gcagaaccag 780
tactatagct ggtga 795

<210> 2016
<211> 297
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (37)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2016
tcatccagga ctttcacggt gcagaatttc ggcaagntgt accgcgcctg cggcaactgc 60
agcaagcagt tcaagcgcac cgtcgagatc agcggcgtca aggcttccag cggcaaggcc 120
ttcgtcggca tcaactccaa ctacggcgat actgcgacta tctctggctg tgccagcagc 180
gtcaaggaga tctgtgtgga gtatgagggt accgacaaca acaagaagga gcctgcgaag 240
aagagctccg gtccgagcaa cgcttgcaag tacaaggagc ctctcgcttc gtgctaa 297

<210> 2017
<211> 234
<212> DNA
<213> A.fumigatus

<400> 2017
ctgaagtggc atattagcct ttctatccct atatctgtcc ttcagttctt caatcacaac 60
tgcaacaact tgagccatct gcaaaccacc gcaaacaaga cacaccacaa tgtcctcctt 120
tgctacacct tccccacact ccccacggcc attcttcaag agacccgcct accccagctt 180
caaagtaggg agggtcggaa aactgtaagt ctctgcatgg ctatccaggg ataa 234

<210> 2018
<211> 195
<212> DNA
<213> A.fumigatus

<400> 2018
atctcttcaa cgcaactgac aagaccagga ttcggcatcg ccaattacct caatgacttc 60
caagcccaac aagcccggta ccaactccaa gaggaagagc ggatccgaca aaatcaaaaa 120
ctgatggacg cgtacgggga caaggacagt ctgcatgatg tccagcatgc gctggaggcc 180

tacgagattc agtaa 195

<210> 2019
<211> 1179
<212> DNA
<213> A.fumigatus

<400> 2019
agagtatacc gcccaacgcc ggtggaccaa aatcataaac tcaccatgag tcgcctaccg 60
tctgtttcca gtctcatgtc acccccctgaa tccaaaccgt tcgagaattt caatacctca 120
ttttcacctt actcgacatc gcaggattat tgctcatttg ttcatggcat gagactcccc 180
cccatttctg gcgaaaggaa gcgaacgcag tcagaaatgg atttaccatc gccgcctgtc 240
actccgtaca ctggaaataa gaaaagaaaa tcagaagttt cagaagaaat cgagcgagat 300
gtcgtgctcg gttcctcgag agatcctgtt ctgttccctc atcacgattc cttgacagat 360
gttgccactg atgagccctt atttgggcag attcttcccg ccccagcaga ggctctaatg 420
gagcaacata tcgattctca catggcaaga tttgataaca aagtgaataa gccaacacgt 480
gatgagtata tcctagcgct ctcctgtgtg ccagtggttt ctgcccagta taaccggaat 540
cctgctgcct gggcgaaaga agaacgcgag acacttgagc gtcaactgtt catgatgaat 600
cgtcatcgac ctcaatctat ggatgcaaac ttaaagaaga ttgcgcccgc acggagcaaa 660
cgggcggttg tcacacagcc tcgcgcacag cgaacaccac gggccaagcg ttcccccaga 720
tctacgccgc atcagaaggg gcatgaattc tttgacttac atactcagac gagtgccagg 780
gctcccagag gcataggaac aaatcgggat gacacagatt atacttccat ccaagatttc 840
tcaccctcac cagaaacact tggcggcaac gcgaaggcat tgaaggcaga ctggaaagga 900
cagatgttag attttagcca ggatccagac cggcaccttt tgagcccggc agagctcagc 960
cttgcctcca ccttgaggct ctcatgcgca acatacttat gcagcaaacg ccgcatcttc 1020
gaggctcgtg tgagagcttt aaggattggc aaagagttcc gcaaaacaga tgcacagcaa 1080
gcttgcaaga ttgatgtcaa caaagcgagc aagttgtgga ctgcttatga tcgtgtcggc 1140
tggttcgatt cggaacactt tcggcagtat gtagagtga 1179

<210> 2020
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2020
aaggttatcc atataaagaa agcctcaagg caactcatca cccaatgtca gttcaacaac 60
ctgttaatta gccctgccta tcgtactatg acgatggctg actaccaaca aacccaaacc 120
cgatcatcca acaaatccaa cgcattctgc ccttccctcg ccttcagctt caaccacgcc 180
tga 183

<210> 2021
<211> 330
<212> DNA
<213> A.fumigatus

<400> 2021
agtcacctga accacctgaa ccccctgaac ccgaatattc ttcacccagt gaaccccgat 60
catcccctga ccgatgacat gccctcttcc agactctcct attgcactat gttacttttg 120
attgcatcta tctttgccaa ggtccaggtc agagagttca ctgcaaaacg gggccatcgc 180
atcattcagc ccaccttatc taagaagttg ttccgggttc aagattcctc attggttacg 240
cctggcccta ttgaaaacaa aaatgtcgac aatgtttcgg aatctgcaat gctttggtct 300
tcaccacggg gctggaaaga gcgctgccaa 330

<210> 2022
<211> 579
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (406)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2022
tcgaccctgc cggacgaggt ccccgcaaca tatcacaatt ccacaaccac cagcggtgca 60
acctccgacg gaatgacttc ggcatacagc aaggtcaaag agctgaccac agcatcgagt 120
gctcaggttc tgacggtctc gggctacctc agtgcctttc tactatcttt cacaatcaat 180
cgcgccttct tagcctccgc actccttccc ctctaccttc tgagccttgc atatagggtc 240
ttgcccacga tattccggaa cgcaccgcgg ctactattgc caaactggtg gaaaacgctt 300
gtgagagatg cggagcaata ccgacagcga gtagatgccc tagctcaatc gccgctggag 360
ggaacgtaca gattccaaga tgacgagatt ctccggaccg atcganaggg caaaggttgg 420
atggctgata tgccatggaa ggacaatgtg gaggaatcca ccgtgtgcgg cgcgaacgcc 480
cgatatgtcc atctgaaacc gagttatccc agcatccgca cggaatataa tgcctccccc 540
cgaacgatcg tccttcctgc atgggaatcc ccgccggga 579

<210> 2023
<211> 777
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (48),(56),(59)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2023
caaacggaat tagttgcggt aagaagccca gaaaaggttc taaccatntt cttttnttnt 60
agcaaaccaa tggaatgttt ctggctaccg gaaaaggagt tttctttcca attcatgacc 120
cttccttttt tttccaagat ttccttcatc acgccggata tgggcatggt gtatgctgga 180
atggttccgg actaccgggt actagtagac aaggctcgca aggtctctca cactggatac 240
aaacgcatct ataatgagta ccctccaact cggatactgg tgcaagacgt tgcacgtgtc 300
gtgcaggaag caacgcaatc tggtggtgtc cgaccgtacg gtgtcagctt gctgatcgct 360
ggctgggatg agggtattga gcccgaaaca ggtgaatctc aacgcggtga tgaggagggt 420
gacctcaaga aggctacggt agctactggt aaaactggtg gtatcctgaa gggcggtccc 480
agcctgtacc aagtcgaccc cagcggcagt tactatcctt ggaaggccac ggccattggg 540
aagcatgcaa caagcgccaa gacgttcctg gagaagcgct acacagaagg gttggagctt 600
gaagatgcca tccacatcgc cctccttact ctgaaagaga ctatcgaggg cgagatgaac 660
ggagacacaa tagaaatcgg tgggtgctac ttatctaaat ctaacgtcgc cacgaaacac 720
gaaactgact tacgcaggta ttgtcggccc tcctgcggat catcttctgg gttatga 777

<210> 2024
<211> 792
<212> DNA
<213> A.fumigatus

<400> 2024
cgaaccatcg tagctggcgt tggcgctgtc atgtgttcct acaatcaaat caacaacagc 60
tacggttgtc aaaacagtca aactctcaac aagctcctca aggctgagct gggcttccaa 120
ggcttcgtca tgagtgactg gagcgctcac cacagcggtg tcggcgctgc cctcgctggg 180
ttggatatgt cgatgcccgg agacatttcc ttcgacgacg gactctcctt ctggggcacg 240
aacctaactg tcagtgttct taacggcacc gttccagcct ggcgtgtcga tgacatggct 300
gttcgtatca tgaccgcgta ctacaaggtt ggtcgtgacc gtcttcgtat tccccctaac 360

ttcagctcct ggacccggga tgagtacggc tgggagcatt ctgctgtctc cgagggagcc 420
tggaccaagg tgaacgactt cgtcaatgtg cagcgcagtc actctcagat catccgtgag 480
attggtgccg ctagtacagt gctcttgaag aacacgggtg ctcttccttt gaccggcaag 540
gaggttaaag tgggtgttct cggtgaagac gctggttcca acccgtgggg tgctaacggc 600
tgccccgacc gcggctgtga taacggcact cttgctatgg cctggggtag tggtactgcc 660
aacttccctt accttgtcac ccccgagcag gctatccagc gagaggtcat cagcaacggc 720
ggcaatgtct ttgctgtgac tgataacggg gctctcagcc agatggcaga tgttgcatct 780
caatccaggt ga 792

<210> 2025
<211> 414
<212> DNA
<213> A.fumigatus

<400> 2025
agtttttaa ccattgcgaa cagcgtgtct ttggtgtttg tcaacgccga ctctggagag 60
ggtttcatca gtgtcgacgg caacgagggt gaccgcaaaa atctcactct gtggaagaac 120
ggcgaggccg tcattgacac tgttgtcagc cactgcaaca acacgattgt ggttattcac 180
agtgttgggc ccgtcttgat cgaccggtgg tatgataacc ccaacgtcac tgccatcatc 240
tgggccggct tgcccggtca ggagagtggc aactccctgg tcgacgtgct ctatggccgg 300
gtcaacccca acgccaagac cccgttcacc ttggggcaag acttcgggag tcttacgggg 360
gctcccttgc ttaccgaacc taaacaatgg gcaatggtgg cttccccagg atga 414

<210> 2026
<211> 375
<212> DNA
<213> A.fumigatus

<400> 2026
agacgtacta atgtcgccgc gacatgggac aagacactcg cctaccttcg tggcaaggcc 60
atgggtgagg aattcaacga caagggcgtg gacattttgc tggggcctgc tgctggtcct 120
ctcggcaaat acccggacgg cggcagaatc tgggaaggct tctctcctga tccggttctc 180
actggtgtac ttttcgccga aactatcaag ggtatccaag acgcgggtgt gattgctact 240
gccaagcatt acattctgaa tgaacaggag catttccgac aggttggcga ggcccaggga 300
tatggttaca acatcacgga gacgatcagc tccaacgtgg atgacaagac catgcacgag 360
ttgtaccttt ggtga 375

<210> 2027
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2027
tgcttggcag tagcaatcac acccgcgtct tggataccct tgatagtttc ggcgaaaagt 60
acaccagtga gaaccggatc aggagagaag ccttcccaga ttctgccgcc gtccgggtat 120
ttgccgagag gaccagcagc aggccccagc aaaatgtcca cgcccttgtc gttgaattcc 180
tcacccatgg ccttgccacg aaggtag 207

<210> 2028
<211> 258
<212> DNA
<213> A.fumigatus

<400> 2028
tcgcagtggc cggctgacgg gcgtagcgtc atccatcgcg cggattatca ccggattctc 60
ctcgacaagg cgagagacct gggagtggcg attcgtctag gcgcgctggt cgagaaggtc 120

ctggtcgacg acactgcagt tattgtgggt agtgagacca tcgccggcga cgtgatcatt 180
ggtgctgatg gttcgttttc cctctccaat tctcatctcg tcttcaccac ggggctggaa 240
ggatccacgg gggatcta 258

<210> 2029
<211> 438
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (391)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2029
cgacattcct tttttctaca ttttgttatt ttgatttttg tttccattgt gaccttgacc 60
tggctcggcg cggcagcagc cctcgtgctc tccacatggc caactgcagc ctctgcaaac 120
ccgggcttcc gcaaagcggc cagcccgagg taccgcagca gtgtctcggc ctgccctgag 180
cgctacagcg acgctggccc caacacagga aactggtctg tgtacgcgga cttcaagctg 240
atccacaagt gcaaagagaa catgttctac cacttctccc tgttcgacga tgtcgatgac 300
caggaacgac cccaccgcct ttcaagcttg ctcctcctat ggggccaaac tttggcagtc 360
tccctgcctc cactgcgccg gattgcttcc ngccgagttt ggttgatgtt gaatttgaac 420
tccggctggt gggtatga 438

<210> 2030
<211> 387
<212> DNA
<213> A.fumigatus

<400> 2030
cccggagtgg gaggtttcgt tgatgagatt ggtggcgtca tcggagtcca gaagatcaac 60
gtcgatcagt tgcgggcaga tgttaagaag tacattgata atatcaaaaa tgtgcaagca 120
agcctagatg ctggcaattt aagcgatccc aagaagttcc atccacagga ccgcgtgagt 180
caaatcgtcc agcgaagtat gaaagatgcc agaagaaagg cggagcaaat gcagctgtat 240
ctggaggaga tggtcaagac gtacgacgac atcatggtct tctatggaga agacaataca 300
gatgaaggag ctcggcggga cttctttgcg aagctggctt cgttcttggt ggagtggaag 360
gtgagtttct gtgtccgttc gttgtga 387

<210> 2031
<211> 729
<212> DNA
<213> A.fumigatus

<400> 2031
agacagacag ttgccagtgc ggcattgctg ttggcccaag taaactgcgt gcttaccagg 60
cctcagggta cgaacatcct caaagtttca acgtccgatg ttgttcagcc tggtgggctg 120
gctaatatct acctcgattg gcgtgaatct tactctggta tcatcgaggc tatttacgcg 180
tcctgtctga gccctgatac gtcttcaacg cagatcatcg gccgctttac tgtcgacggc 240
catccccccc agcgacttgc ctgggcagtt tccgacgatg ctcccacgga taactgtatc 300
tatgtccatg gcacccagtc agacaggtta gaaccaaatc tcttggggaa gagtgagccc 360
gtccgactga gtcaaatggt gaagaaaaga tctgtcgccg atgcaaacgt tccccttctc 420
aaagacttcg actcactcgg ggcctggttc gacggggttg ccgccatcaa acaaaagact 480
gcaacacacg gtggcgtcgc atccagccac tcgtccaagg acagcaagat cgccatcgtg 540
ggtgctggta tctcaggcct cgccacaggc ctaatgctcg acagcgttgg cgtccacaac 600
tgggaaatca tcgaagccag cgatcgcgtc ggagggcggt tccgaacgcg gtatgttgct 660
gggacgcaag agtgggcgga gatggggccg atgcggttgc ccctattctg tcacctacaa 720

gcacagtaa 729

<210> 2032
<211> 969
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (921)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2032
agcgcgtgtc cttccagccc cgtggtgaag atgtctcgtc agatagacag catcaacgag 60
agtcttgctg atttcagctt ggggcaaaaa ttcagaatgc catcattcta tgagcacagc 120
cggggtatcc tactatatgg acctaagggg acagggaaat ctgcccttct acaccagata 180
caagctgcag gttggaaaaa gacgtttagt ctcggttcat ccatgttcag ccggaacatc 240
agtgattcgg aaactaaggt tcgcaatgtc tttcaagagg cggtacgttg ccagccaagt 300
gccatcataa ttgaccagct cgacttcatt gctcctaaac gagcgtcgct agattctcaa 360
tctttaacat cagtactatg tgaatgtcta gatatggcca aaagtgctct tgtgctggtt 420
gtggcagcaa ctcgccatcc taacgacgtc gacgatgcac tcaggacacc ccaccgtcta 480
gcaatcgaga ttgaaatgca ggtacccaca gcgcaagacc gagctgaaat cttgcgggct 540
atttgtggaa gctcaacacg ccaattgagc gaggagctca tcgaaacgat tgcagagaaa 600
acgcacggct atgtcggagc cgatttgttt gcgttacttc agcttgtatg ccgcaaggcg 660
cggcagaggc agttatgtca atctcattcg ccgaccaggc tctgcgacgt tacatcaagc 720
cctgacctgg tggcaggtgt tgagcacatc gaggagaata tggtcgttga tctggatatc 780
gaggagtcgg atgttatgtc agctctacag gaaactcgtc ctactgccat gcgagaagtc 840
ttcttagaaa caccaaaagt caggtggact gatattggcg ggcagcatga tatcaagaag 900
cgtctccaaa aggctgtgga naggcctctt aaagtgagta gtggcccctt agcactcttg 960
actcgctga 969

<210> 2033
<211> 396
<212> DNA
<213> A.fumigatus

<400> 2033
caccccgtgg atccttccag ccccgtggtg aagaccatca tttcagacaa tattcgacgc 60
caattctctc gtacgttatt cgactcctct ttcatctacc agcaacagcg ttttggcgct 120
cctatcaagt attcggataa ggagcctctg caggatctat ataatatccg gcctggccga 180
acatttgacc caccgccaac cccacgtgct cgaatggcat acattctgat cgacatgcta 240
tttgagctcg catcagcctc ccagcccaac cgaatgaatg aataccattt gccgccccaa 300
aaaaagagac aagtgatacg gagcaaacga cagcccgtgt tctgctctcg cgcgctgtct 360
ccccgtatct catactccga tgcgccatgt ccctga 396

<210> 2034
<211> 474
<212> DNA
<213> A.fumigatus

<400> 2034
ctacttatac tgttgaagcc attacttatc acacgtgtta tgtttacagt gaccatggcc 60
agtttagggc aagaagaagg aggggcccgc actctttccc cccctccgcc gcctccgccc 120
cctccaccat cggatgctca ctcaaaaata tctccctatg ttctgaagct caggagcgcg 180
cctcccaatt atttctacaa gccccagata aagccggaac acacggaccc ctttgctgca 240
cccactggtc cttacttctt ttatggcaca ttgacagatc cgttaatgat cgcggagatt 300

ctcgagctga acgaggaacc aaagctgcga cctgcacata ttaatgggtt tgaatgtaaa 360
atgttggggg ccattttcca gcttgggctg attggtccaa attcgggggg tggaaagacc 420
caccgtacct gttccgctct acgccggatg ccaaataggc tcgctgcgtt ttaa 474

<210> 2035
<211> 315
<212> DNA
<213> A.fumigatus

<400> 2035
ggactctcat ttcctcatct catcattgag cattttgttg ttgacgcttt aacctaccag 60
cttgtctccc tatcggacaa ggcatcaagc cctcgaggat atagaacttc gagtcgtctg 120
acctacgaat ttgaacgagt acggatcatc attttgcagc ttgtccaacg tgacaaatgc 180
agcggcccag tcatgcggaa ggtcgatatg tgcatcgcca acattaagac acgaggacag 240
ctgcaccttg gccactggag tggcgacaac aacaacaaca acaacatggc atggccgttt 300
cggcgcagca gatga 315

<210> 2036
<211> 267
<212> DNA
<213> A.fumigatus

<400> 2036
agacctcttt ccgctgcttt gtctgatgga aaatcagcat atatttaccc gaacgacgag 60
caggaattgg atcgattgga catgcagcac catatgatca aactggtcaa cgatggacga 120
ctgttctttg ctcccataca tagccctaaa cggatcctcg atatcggtac tggatctggc 180
atatggccca tagaaatggg tgcgtcttcc tcctgtcatt ccatcactca ctccacgcag 240
attcttaccg tcccattgct cctgtag 267

<210> 2037
<211> 774
<212> DNA
<213> A.fumigatus

<400> 2037
caccttataa cggattccat ttcaggggggg ataataaggg atgcggagaa tgctgatgct 60
cagcttctcc tcgcctggcg tcgggcttgg ttcgctcagg ggtttaggcc agtcgtactc 120
ggccgtggcg aggcgatgaa caaccagctc tacgagatgg tacagacctt gaaaatcaac 180
aaagatcttg agtatgattt gttcaggtgg cttgcctggg gtcatatggg caccggatta 240
ctcgccgatt ggcgctgttt cccaatggcg cgatatgatg atcctctgct gtcttacttt 300
cgccggggag tagatcctgc gcagattaca agattcgacc acatcggcag tgctcttttc 360
gctggcgaga agacacgtat caacgatgtg ctcaagaatg tggtacagaa tgccctcaag 420
agtgtggacg acaaggcgag gtccatgctg gacatcatcc ccggcgagat tttcaaggtc 480
gaacagccga gcgctctggc tttctacacc tctgcgacca tcaccactca ctatccgaca 540
ctcgcagaga agatcgtttc atcgccgacc gccggcagac tggcgctcct cgagctggtc 600
aactcgcatc tacataacac attccagaac tccttccagg ccggcattgc tgttttgaag 660
cccttccctg agcatacgac cgccctcgtg gaacccgccc tgcgccttgc caaagctctc 720
ggccaatgcc cgagctcgcc catccccgaa tcttgccctc caaatctacc atag 774

<210> 2038
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2038
tccggtgccc atatgacccc aggcaagcca cctgaacaaa tcatactcaa gatctttgtt 60

gattttcaag gtctgtacca tctcgtagag ctggttgttc atcgcctcgc cacggccgag 120
tacgactggc ctaaacccct gagcgaacca agcccgacgc caggcgagga gaagctgagc 180
atcagcattc tccgcatccc ttattatccc ccctga 216

<210> 2039
<211> 339
<212> DNA
<213> A.fumigatus

<400> 2039
ggacgcttgt ccttccagcc cggtggtgaa gaacggggca atatgagcca gaaaatcggc 60
atcttcccag cctccggcgg cctaggaaca agcatcatca accatctcgt caagctcgtc 120
ccggcctcac aactcatcct catcgcccgc aaccccgaaa agctagcctc gttctcccgc 180
gacggcgcaa caattcgccg agcagactac gatgaccgcg catccctcga gcgcgtcttc 240
gacggcgtcg gcgtcctgat gctaatctcc tacgcctcct tcgagatcca gcaccgagta 300
gaggtactct tcaatcttgt ccttcagtcc gaaccctaa 339

<210> 2040
<211> 669
<212> DNA
<213> A.fumigatus

<400> 2040
atcttcaaag taacgaaaca accaggccca caaagccgcc atcgacgccg cccgccgcag 60
cggcgtcaaa cacatcttct actcctccct cgccttcgcc ggcgacctgg gcgagtccag 120
cctcgcgcac gtcatgggcg cccacctcgc aacggaaaag tacctcgccg aactccccgg 180
ccacttcacc tacaccgcca tccgcgaagg cctctactcc gagtccttcc cgatctacac 240
cgcgtggttc gacccgcacc agcccgtcga ggagatcacc atcccgcacc cggggacggg 300
gcccggggtg gcgtgggcga aacgcgacga gctgggcgag gccaccgcca agatgatata 360
tgcgtatgcg aagaacccgg cgggcttccc gtatctgaac cgggtggtgc tgctttcggg 420
accgagggag gtgagtctgg cggagacggc ggaggtgctg gggcgggcgg tggggaagcc 480
tgtgcggatc cgggagatct cggtggacga gtatgtggcg ctgccgcaga ttggggacaa 540
gcatacgtac cacggggtga atctgtcgag ggagtgggcg acagcgtggg cggcgatccg 600
ggcgggggag acggccgtcg tgtcgcctct tctgggggac attctgggga gggagccgga 660
ggattttga 669

<210> 2041
<211> 804
<212> DNA
<213> A.fumigatus

<400> 2041
cgaaacaacc aggcccacaa agccgccatc gacgccgccc gccgcagcgg cgtcaaacac 60
atcttctact cctccctcgc cttcgccggc gacctgggcg agtccagcct cgcgcacgtc 120
atgggcgccc acctcgcaac ggaaaagtac ctcgccgaac tccccggcca cttcacctac 180
accgccatcc gcgaaggcct ctactccgag tccttcccga tctacaccgc gtggttcgac 240
ccgcaccagc ccgtcgagga gatcaccatc ccgcacccgg ggacggggcc cggggtggcg 300
tgggcgaaac gcgacgagct gggcgaggcc accgccaaga tgatatatgc gtatgcgaag 360
aacccggcgg gcttcccgta tctgaaccgg gtggtgctgc tttcgggacc gagggaggtg 420
agtctggcgg agacggcgga ggtgctgggg cgggcggtgg ggaagcctgt gcggatccgg 480
gagatctcgg tggacgagta tgtggcgctg ccgcagattg gggacaagca tacgtaccac 540
ggggtgaatc tgtcgaggga gtgggcgaca gcgtgggcgg cgatccgggc gggggagacg 600
gccgtcgtgt cgcctcttct gggggacatt ctggggaggg agccggagga ttttgagact 660
acgatccggg ccttggttgg ggcgaggtac tcgcctgcat ggatcggtag atgtagattc 720
cctgctactg gcctttcgtc ggggacctcg ttcccgacgg ttatgctggg ttcaatatca 780
tattccgttt gtcctcgttt ataa 804

<210> 2042
<211> 414
<212> DNA
<213> A.fumigatus

<400> 2042
gaacagcgcc aagagggatt gatctgcacc agccgtgacc gaaagttccg tttctcctcc 60
ggtatgaagc atcaaaagcg ccgtcctttt ccccaccggc ttcctgataa gagcgatccg 120
cccatatcag tgcgcatgct cccgtccgga aatacatccc cgtgcttcaa ccactgcagc 180
ctaactggtc tgatgaaggg tgctttctgt gatattacca cttgcattcc catcaggcaa 240
aaagacgaaa cagcaatgaa tgacaagatg ctcaacactc agtcgcctga gttgtcacag 300
aagaacggta tgtggactgc tataagaact caatactata tgcttatcac tttgacttca 360
acaagaactc tcggatggat attcgtcaag tcgagtctgc gccatttatg ttga 414

<210> 2043
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2043
cttcaacaag aactctcgga tggatattcg tcaagtcgag tctgcgccat ttatgttgac 60
aacccttcag catacccgac ggaccatgcg ggcgtctcgg gcctcccggc ccctaagacg 120
ccatcccggt cggggcttat gcgggtcctg cttggcatct gggagttcgc gatggaccag 180
tggttcctga tcgttatcgg cctcctgatt gcgtag 216

<210> 2044
<211> 489
<212> DNA
<213> A.fumigatus

<400> 2044
atcgttggtc cttccagccg ccgtggtcga agatctggca tcgagacact ctctttctcc 60
tctccgccat tgacccttct cgctgctggc tcggtcgacg gctcaatcgc gctgttcgat 120
gccgcgcacc ggttcgctgt acgtcggcat atcaaggagg cccacgaggg agctgcggtc 180
gtcaaggtgg agttccttca gacgaacctg gccgctctcg caagtcgccc cgctgccgcg 240
gctacccagg gacgcccgtg gcttctcacc tccgtcggca tggacggcgt cgtcagacgt 300
tgggatgctc ggggcggaac cgcagctgca gcggaggggt tgttgaaaga gtggaagggt 360
catttgggcc tcgtggagaa cggagaaggg gagcagtcgg gaggcattat gggctttgtt 420
caagggtttg atgggaagcg ggttgtcacc gctggtgacg atggtgttgc attggtcttt 480
gaggaataa 489

<210> 2045
<211> 813
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (71),(102)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2045
ggaatcgaat gcggcccgga caggacgaac ccagacactg caatttttcc catgttcagc 60
aagcccatca ncacctttag cggggctggc gcgggggctc gnataataca taccttggat 120
gagtactggc gcagcttcgt gccggggcat atgtggtctg ccttgctgac aggggagcat 180

atcagcaccg acatagcggt ggacgcgggg agggcagtct ggtttgcgca tacgaaggga 240
gtggccggtc cggacaagac atgggagtac tgggaagtca atacgcccgt cgagccttcg 300
ctagagaaat atatcactga ttttgtggaa ccacatctcg cgggatacac cggcatgatg 360
aatgtcgaaa cgatcggagg caaaatcatc gaggtgcatc tgcgtttctc gcctcagtgg 420
ccgaacatgt atggatcgtg gttcattgct tctcttgtgg acctttattg cgggaaggga 480
tggacagggc cgtcggcctc gaagattgcc tcaccagttg ggtatagtgt tccactgtgg 540
gatgatgaga aatatgctga gaccggtacg actctcacgg aaaacgctgt gcggcggctg 600
gaaagcatgt tcaatgtcga aagcatcgtc gaaagcacca ctatgcagta tggtcaggag 660
aagccattgg aaagtacccc aagggcgtct ggtggcttta ggattgcttg ggtcaacggc 720
tatgaccttg cgaggtgcaa gttggccagg agtgcgttgc aggcatacct ctatcagttg 780
gatgatacag acaagggata ccaggtactt tga 813

<210> 2046
<211> 231
<212> DNA
<213> A.fumigatus

<400> 2046
gttgagttta gcccatggtc atctcgattg gttcgcgcga gcattaatct aggtaatatc 60
cctcccaccc acattctcca gcgaaacgtg ggcattcccc tctgcaacat cttggtttcg 120
ccaatcctcc ctgccaacca agagctaaga ctacctaact tttgcaattt cacccgggtt 180
ccagattttt tctcttgtcg ggtcccagga ttccagacaa ggaccgacta g 231

<210> 2047
<211> 276
<212> DNA
<213> A.fumigatus

<400> 2047
aaacgtgggt ggaatgctct gtattgggaa aaccatgatc agccgcggtc gatcgatcga 60
tacacccagg caaaggagga gcatcgcctg gtagcatcca agctcctggc tactatccta 120
acgctacagg ctggcacgcc attcatctac cagggccaag aactaggcat gagaaacgtg 180
ccagtggaat ggggaatcga ggagtataag gatattgact gcctcaacca ttggcatgag 240
tatgtattca ccctacctgt tcatgaacat gactga 276

<210> 2048
<211> 645
<212> DNA
<213> A.fumigatus

<400> 2048
gaaacgtgcc agtggaatgg ggaatcgagg agtataagga tattgactgc ctcaaccatt 60
ggcatgagta tgtattcacc ctacctgttc atgaacatga ctgacgcaca caggctgcta 120
aaaacaaagc aattcgacac taaagcacag cagattgcca aacaggagta tcagaaaaaa 180
tcacgagaca acgcgcgcac gccagttcaa tggagttcag gaccgaatgg cggcttcaca 240
gggccaaatg tgaagccctg gatgtcagtc aatccggact atgtgcgcat caacgccgaa 300
gcagaggtca acgatccgaa ctcgacgtac cactactggg cgtctgtgtt gggccttcgc 360
aagaaatacc tggatatatt cgtctatggt aatttcgaga tggtggacgg cgacagccag 420
gaggtcttcg cgtatactcg acaatatgaa aatcagaagg cgttagtagt gggtaatttc 480
acggacaaga cactggagtg gagtcctgct gccaatggga tcaagggtgt gagggaggtg 540
ctgctcaaca cttatgaaga ggcaaagaaa gcgtcaccga gatttgctgg agagaagtgg 600
tctcttcaac cgtatgaagc ggttgcggta attgtgcagg agtaa 645

<210> 2049
<211> 204
<212> DNA

<213> A.fumigatus

<400> 2049
acaatattga tggtattagt gagccttctg agcctgtttg ccgcagtctt ctactactat 60
attactgttg ctccaagctg ctataattct aacagtaaca acaacacacc acacctgcta 120
gaagctgata tattgggaac tattgctgtg caagagaata tgctcatatg tttacttgcc 180
aataccatac atatgacgtt ctga 204

<210> 2050
<211> 213
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (74)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2050
atggaacagc ggcaatggat cgctggctat cccatcgagg ctacaccttt cgttcggatg 60
ttggttgacc gtgnaagaat ggagaaggac ctgctttttg taactgtcac tcattattcg 120
tcctgttatg aaccaatgga agcaatgaat gcaattcaat gccctaagct agtatacatg 180
atctggcttg cattctcacc actacactcg taa 213

<210> 2051
<211> 252
<212> DNA
<213> A.fumigatus

<400> 2051
cggatatcga ctacgtcgcg agcacgtaag gatttgcact ccgtattgat ccagcgatta 60
acaaggccat gttataggaa taatgtcccc aaagggtact ccttcgtcgg tctgacccag 120
aatcttgaga cgaaactgtc cgccatcagc tccatccccg ccgtctacaa ctggacgcgt 180
accaacacca ctgagttcaa gggtgcgaca acaacactac ggcgtaaatg tgttccagct 240
gatcacctgt ag 252

<210> 2052
<211> 351
<212> DNA
<213> A.fumigatus

<400> 2052
tcacctgtag gaaacatttg ctttgacttc atgaccaacg atgtcaaagg tgactcgact 60
tcatcttcgt cgcgtgagct catgctgtgg ctgcagtatg aaggcggcca actgcccatc 120
ggctggacca atgggccagc tgccactatt gacaacctct tcgggacctc gtggacgctg 180
tacgaagata tcaataccga cacggggata acagtcagca ccctgatgcc tactaagcaa 240
tttgaaggct ctttctctgg cgatctgaag aactggctgc tcgccatggc cgatctgggc 300
aggtttaccg agtcgacata tgtcaatgtc ggcaatgctg ggtatttatg a 351

<210> 2053
<211> 678
<212> DNA
<213> A.fumigatus

<400> 2053
aatgtcgatt tctgcgcctt tcagctccca gctgtaagca gcaggcaaaa tggattcata 60

cgttctcatc gccattgccg gtgtcctcag ccatgtcgtc tactttcgac gtggggagca 120
tcagctctac agccatatct acctggtcct ctttgttatt tccgccgccg tcgtcaccgt 180
actcgtccac tacagctata tcctggtgta tctcgccagc ctctatacca gcatcctcgt 240
ataccgtctc ctcctccatc cgctgcgctc ttttcccggc ccgctcgccg cccgcgtctc 300
gggtctctgg tacatccacc caaagcacaa tgcatatctg agcctccagg ccttacacag 360
ccaatatggc ccaatcgtgc gcaccggccc ctccgacctc tccatcatct acccgtccgc 420
cgtgcccgcc atctacggcg cccaatccgc ctgcacgaaa ggcccctggt acgacctgtc 480
gtacccgtct cgtcccctgc aacactgccg caacgccaag gagcaccacg cccgccggcg 540
gacctggacc cccgcgttca gcgacaggat ggtccgcggc tacgagcagc gcatccaaac 600
ctaccagcag cagctcatcg cccagctgac ggcgcgccag accgtcgagt attcgcccgg 660
cgctggaaga cggaaggg 678

<210> 2054
<211> 639
<212> DNA
<213> A.fumigatus

<400> 2054
gcagcaggca aaatggattc atacgttctc atcgccattg ccggtgtcct cagccatgtc 60
gtctactttc gacgtgggga gcatcagctc tacagccata tctacctggt cctctttgtt 120
atttccgccg ccgtcgtcac cgtactcgtc cactacagct atatcctggt gtatctcgcc 180
agcctctata ccagcatcct cgtataccgt ctcctcctcc atccgctgcg ctcttttccc 240
ggcccgctcg ccgcccgcgt ctcgggtctc tggtacatcc acccaaagca caatgcatat 300
ctgagcctcc aggccttaca cagccaatat ggcccaatcg tgcgcaccgg cccctccgac 360
ctctccatca tctacccgtc cgccgtgccc gccatctacg gcgcccaatc cgcctgcacg 420
aaaggcccct ggtacgacct gtcgtacccg tctcgtcccc tgcaacactg ccgcaacgcc 480
aaggagcacc acgcccgccg gcggacctgg acccccgcgt tcagcgacag gatggtccgc 540
ggctacgagc agcgcatcca aacctaccag cagcagctca tcgcccagct gacggcgcgc 600
cagaccgtcg agtattcgcc cggcgctgga agacggaag 639

<210> 2055
<211> 501
<212> DNA
<213> A.fumigatus

<400> 2055
cctgattcat gctctatcca ggtcgtcgac gctattaaag atctcgtaca ggactgcaac 60
ttcgactgca atgactctgg aattgccctt caggcgatgg acaactctca cgtcgctcta 120
gtttccatgc ttctcaaggc ggagggcttc tcgccctacc gctgtgaccg caatattgcc 180
cttggtatca acctggtttc cttgaccaag gttctgcgtg ccgctcagaa cgaagacatc 240
ctcacactca aggcggatga ctcgcccgat gccgtgaacc tcatgtttga gagcgccgag 300
accgaccgaa taagcgagta tgatatcaag ctgatggaca ttgaccaaga gcacctggcc 360
attccagaga cagagtatgc cgctacggtg gagatgccgt cggcagaatt ccagcggatc 420
tgcagagatc tgaatgcgct gtctgagtct ggtgagttat ggaattctgt cattggcaat 480
tttcttactg aaccgtgtta g 501

<210> 2056
<211> 1497
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(1236),(1298),(1340),(1360),(1366),(1371),(1395),(1404),(1427),(1450),(1470)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2056
tacgatgcgc ccacacccag gcggactttc ttccaagctt tcatgtcgct tttgcagttc 60
catctcaaga aagagaattt gcaagacttc aacggcgtgt gcgatgagtc aatccagtta 120
tccattcgca aatggctcca gctgccgaaa aatattacaa atgctcatat tccgatattg 180
cagcatttcc aacttctcgt tgagcttcat gatgccagcc acatctgtgc aagtttgtct 240
caaactaatg agagaaacct ggataccaag tctgctgagt tgaagctgct gcttgggaca 300
tggcgagatc gtcttcccaa tctctgggac gatattaacg cctggcagga tcttgtcacc 360
tggcgccagc atattttcca gctcatcaac gcgacgtacc taagtctcct gcccccgcag 420
acgaacaacg tggcgagcaa ttcctacgcc tatcgcggct accacgagac agcatggatc 480
atcaacaggt tcgcccatgt tgctcgaaag caccaaatgc ccgaagtctg catcaaccag 540
ctcagccgga tttatacccct acccaacatt gaaatccaag aggctttcct gaagctgcga 600
gaacaggcaa aatgtcatta tcaaaatccc aaggaactca acagtggatt ggacgtaatc 660
aacaacacaa atctcaacta cttcggcgca caacaaaagg cagagttcta caccctcaaa 720
ggcatgttcc tggctaagct caaccatgtc aatgaggcca acgaggcatt tggggtcgct 780
ttgtactacg acttgagact cgcgaaggcc tggtctgagt ggggccagta cagtgaccaa 840
cgcttcaagg ccgatccatc ggactatgaa ctggccagca atgcggtcag ctgttacctt 900
gaggctgccg gcctttacaa gaatgcgaag tctaggaaac ttctcagccg tattctatgg 960
cttctcagct tggacaatga agagggacga attgctggag ccttcgagaa cttcaaggga 1020
gacacccctg tttggtactg gattactttc ataccgcagc ttcttacgag cttgtcacac 1080
cgcgaagcac gcctttgcaa ggcagtcttg gtgaagatag cgaagctgta ccctcaggca 1140
ctcttcttcc tgctccgtac gaaccgggag gacatgctca gtatcaagaa acagcatgac 1200
cagaaacagg agaaattgaa tcgtgctagg cagcancagg cgtcgcccca caccaagcct 1260
tctccagcga cggccgacag ttctcctgca cagggtantc aacctgctaa ttcaaatact 1320
cctgctcaag gtcaggctan ccaaccacct caaggtcaan cacaanccca ntcacaaagt 1380
ttgccccaag gtcanaaccc caanccacgg cccaaatcaa ggcccancaa accacccccc 1440
caaaaccaan ctcaaccccc acggaacaan cctcaacccc cccggttccg gctcctc 1497

<210> 2057
<211> 264
<212> DNA
<213> A.fumigatus

<400> 2057
gacaaatgcg gtacttacgt tgacgtcctc acgtgtagtc caactggcgg cggctcggct 60
tatttctttg aaggcgactc tagcctccaa cccttccact ccagacccct tgtcaatcgt 120
ctcaccaatg gttacaagcg cattgaccaa gcggctcagc cgactagggt cacgctttcc 180
attcttggcg gtgacaaggc gcaggaaatc gtcgtaaatc ccaccgccac tcgcccagcc 240
ttggaccttg cgttccggtc cctc 264

<210> 2058
<211> 690
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (288),(427),(464),(544),(641)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2058
ccagtcggat tggccagcct acgcaagtct ccggtttttt ccctatacaa caactctgtc 60
cctgagggta gatctatcct tgcctcgttc aagacggggt ggaagcagag aagcagagaa 120
ggagagaaag accagaaagt aacgcaatac agcgaaagca gatgcacgta tccttgtcct 180
ggctccgcgt ctgtgtttcc ttccttccga gggcttaaag tctttcttgt aaccatcgca 240
caagtatcgc attcatccac aatgtctggt ggagtgcgcg aaatccanga ggaaggagtc 300

gcgccctcct gttcttccaa cggcggcggg aatgttattc aataccatgt cgagaagccg 360
gcagaggcat cctcaggctc agatccttct gctctggaag ctcaaaaggc catgaccctt 420
gaggcanaac gggaaaccga tggtggagct cattcggcct ttancaagaa agagaaacgc 480
ttcatcgtct tcatgatctc catggcgtcg ttcttttctc ctctctctgc ccagatctat 540
ttcnctgtca tgccaacgct tgtggaaaat taccatctta ctacggcctt gatcaatctc 600
accatcacta cctacctgat cttgcaaagt ctggctccga ncttcattgg cacttttgcc 660
gactcgggag gtcgtcgtcc ggcatacatc 690

<210> 2059
<211> 426
<212> DNA
<213> A.fumigatus

<400> 2059
gagggaccgg aacgcaaggt ccaaggctgg gcgagtggcg gtgggattta cgacgatttc 60
ctgcgccttg tcaccgccaa gaatggaaag cgtgacccta gtcggctgag ccgcttggtc 120
aatgcgcttg taaccattgg tgagacgatt gacaaggggt ctggagtgga agggttggag 180
gctagagtcg ccttcaaaga aataagccga gccgccgcca gttggactac acgtgaggac 240
gtcaacgtaa gtaccgcatt tgtctcaacg ctactgttgt ctctcaattc aaatataact 300
gacgaacaac aggcaatcga gttgtcctct gtgctgaacc tacctctcac tggcgatgct 360
cgcatcatgc agacagcaga gatgagtcgg aggtactaca gtactatcat ggctggaggt 420
tattag 426

<210> 2060
<211> 372
<212> DNA
<213> A.fumigatus

<400> 2060
agtatcatcc tctaccttct tctgttctgg ttgacagtcc tcaagatggg tgcaccaaac 60
ttctaccgct ctggacttgt gtcccttctg ttcgtgtcac tgtgcgtcag cagcctcgca 120
aacgctgact acaatcgatt ctgtcccgat aaaacatcgc agatccaagt cgactcaacc 180
ttctacaccg ttgcctgcga tacatcctac atatcccccg ctcctaaaaa ggtcagagag 240
ggcgcatcgc cccaggactg cgctcggctg tgtaccgggg gagccagcat accatgccat 300
agtgtggtat cttggaaacc gttgggcggc ccaaaaaacc aacgccggct aatcccggtt 360
ccgggcgcct ga 372

<210> 2061
<211> 297
<212> DNA
<213> A.fumigatus

<400> 2061
tcaggaatcg gctcggcatg catgtccaat gacggcacca acaagcccca attcactcct 60
acattccctg gcacctgccc cttcatcacc gcagttggtg gtactcagtc ctatgctcct 120
gaagttgctt gggacggcag ttccggcgga ttcagcaact acttcagccg tccctggtac 180
cagtctttcg cggtggacaa ctacctcaac aaccacatta ccaaggatac caagaagtac 240
tattcgcagt acaccaactt caagggccgt ggattccctg atgtttccgc cccatag 297

<210> 2062
<211> 318
<212> DNA
<213> A.fumigatus

<400> 2062
aacgccaacc tgatcgcccc cgacagccta gtggagatgt acaacctcgg cgactacaaa 60

cctgatgcat cttcgggaag tcgagtcggc ttcggtagct tcttgaatga gtcggccaac 120
tatgcagatt tggctgcgta tgagcaactc ttcaacatcc caccccagaa tttctcagtc 180
gaattgatca acagaggcgt caatgatcag aattgggcca ctgcttccct cggcgaggcc 240
aatctggacg tggagttgat tgtagccgtc agccaccccc tgccagtagt ggagtttatc 300
actggcggtt caccgtaa 318

<210> 2063
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2063
attagtccgt ttgttcccaa tgccgacgag ccaaccgctg cggacaacca gaatgagccc 60
tacctccagt actacgagta cttgctctcc aaacccaact cccatcttcc tcaggtgatt 120
tccaactcgt atggtgacga tgaacaggtg agcatcctca tgattctgtt gtataataga 180
cactaa 186

<210> 2064
<211> 783
<212> DNA
<213> A.fumigatus

<400> 2064
caccgcatcg cggtcttccg gaccgtggtg aagacggtga ccggcgccag cgatggaata 60
ggtttcgggt ttgcccagga actctgcaag cgtggattca acgttttcct acacggtcgg 120
aaccacgaca agttactacg aaaacgcgat gagctgctgg ccgagttccc caaccgaaag 180
attcggatca tagtctttga cgcgtttaaa agctctgaag atctcagatg gattgcacaa 240
gagattggtg acgcccgtct cactgttctg gtcaacaatg ctggagggga ggtgaagttg 300
ttcgagcgac tggccgattt aatacatgaa gacgtgcagg caaccatcag ccttaattct 360
acttttacgg cgcaaatcac gcgcgtcctg ttgccggtcc tggagaggaa tagcccgagt 420
ctcattctcg ccgtctcttc ggcagcagct tatgtgatgc cgaccctcac agtatacagt 480
gcttccaagg gattcgtgga atccttcacc cggtcgttgc aagccgaaat gacgctcgac 540
ggaaaagacg tggaggttct cgggctacgc gtgggaaata ctaagagtca agggaatgat 600
gtggccgtgg gcctattcac cccaagctct cgcacgctgg cttccgcggc cttgaatcgt 660
gtcggatgcg gcaaaccggt tgtctgggca tattggcctc acttcctcca gggtctgagc 720
tttcatctaa ttccaggcaa gatgctgatg ctgatcttag gggacccttt atcaatgcct 780
tga 783

<210> 2065
<211> 879
<212> DNA
<213> A.fumigatus

<400> 2065
ctctggtgca attccgtttt gctgacaaag ccctacaggc aagagtcgct cgcggaagct 60
acgctgatgc cgatgggcaa agggtttgct atcacctcgg atctcaatct tcgtaacatc 120
ctgcttcatg gttatgataa gcacaccaga cgtcctgacg aggacgagcc gtcgagcaag 180
cgccggaaac tctttgcact acctaaactg aagatcgccg ctatcacgaa tgatgccgtc 240
gctacgcttg cgtctctagc ttactccgtc aagtctctgc ccaacagtcg tgtcgcaatg 300
ggtatcattg taggcacagg ctgcaacgcc actattccta tgaagcttga gtctctacat 360
gaatctaaag cggaacatgt caagtcaaag atcccggaag caaaagaaac cattgtcaac 420
actgaatgga ccatttcggg cgcctctcct cctttgaaag agctcaatat cataaccaag 480
tgggacgaag agctagacaa agcatgtgca cgtcctgggt ttcagccctt tgagtacatg 540
accggtggac ggtacatcgg agaactcatt cggctgatac tctttgacta ccttacaaac 600
attgttggac tggagaagaa acagcttccc gcaacgctcg tccaggaata tgcactgacc 660
acatcataca tctcagacaa agtcgctcga ccacaacgtg acgaagatct tgctgcggaa 720

ttgaaccaat cgttacctcc acccgagagt tgcgaatggt gctgggattc tttgactgcg 780
ggcgcttttc ggaagatcgc tcgagttgta cagactcgat ctgccgggct gatcgagtct 840
ggtcttcacc gcggtcataa ggatcgaggg gggtcattc 879

<210> 2066
<211> 201
<212> DNA
<213> A.fumigatus

<400> 2066
taccgaaaag atactggaaa taccgatacc ataacagtaa ttactgttat gcctggggct 60
tcagtgacca acattgacca ctcgtgtatt agctgtatca gcatcacatg cttttactcc 120
gcactcttct gctgtcaagg aagctctgat aacaacccag gcagtacttt taagctccat 180
tgccatcgta gactctcatg a 201

<210> 2067
<211> 456
<212> DNA
<213> A.fumigatus

<400> 2067
aagcatgtga tgctgataca gctaatacac gagtggtcaa tgttggtcac tgaagcccca 60
ggcataacag taattactgt tatggtatcg gtatttccag tatcttttcg gtactattac 120
atcacagcat tcagttgtca ccctcaaggg ccgaaaacga tctctatcat actaccacga 180
gatcaacaca tatgggacgg gaggaacatg cctgaatatg atcatgacaa ggtccccgat 240
tttccttggg aacttggtgt ctacgatgcc cattgccacc ccacggacgc catgtcgtca 300
atatctgata ttccagggat gaaagcagcg acgctcacag tcatggccac aagagcggaa 360
gatcaggacc tcgtatttca gatagctaaa gaccttaaca atgcaaaatt gactgttcag 420
gacgccgaga cggatcgcgt accgccatcc ttcgga 456

<210> 2068
<211> 984
<212> DNA
<213> A.fumigatus

<400> 2068
gaccttccag taaactctgt acatcagcac ggaaaactga tcgcggctct ccttccacag 60
ttagacgaca ctcctggcga ttttctggct cgcctcaggg acgccgaagc ggctgtgaaa 120
acagagtctc ttgttgaact catcgatgtc accgaaaagc tttattattc tctgtatgcg 180
agactggtta tggagatcgc caacgttgag ctctgtagtc acttcgacct taacctgcgc 240
cgcatgctcg ttaaggaaac gttcaccctt cctgaaacta gtcatctccg cgacatattc 300
ataacattca aggatatcct ggatgcccca gaaatttgca gtggccttga ttacgacctt 360
gttaaacagc accaggattc gatcattcgc aatgctaccg acaagcttgc catcaccggc 420
ttctctgcgc acgatcttat cggttatcgt acatccacct taaagattgt ctccgacgag 480
actcatccgt tcgttctcaa gtggagaggt ctcgtttacc tgtatcagat gccaggcgtt 540
gaaaccatca ccgcgatgtc ggagaagtac ctgactatca tgccgcaggt ctcggctacc 600
gaagaatttc cagcgattga acttcctttt atcgaccgcg attcaattca gccagagatt 660
tggcagcgcg agaacgtcct cgacaaccgt caggcgacct tagcgaaact cgagggcagg 720
agcgtcggag acatgagacg tgacgacagc agacgccgcc ttcttgattt cgtcaaagag 780
aaaaaatgca tctgccgttc atcttgcagt tgcgcgacag actgcacaat gggagtcgtg 840
ctgccctgcc cttgctctga gcgcatcttg tgcatcgcgc acggcaaacg ctatgagcgt 900
gctggcgaac aaggatttcc ggcccaatat gcgggagcct tggcgaagag cctcctttgg 960
aagggctggg caattggtcg gtcc 984

<210> 2069
<211> 411

<212> DNA
<213> A.fumigatus

<400> 2069
atcccccgca cgcggtttct tctagcccca tggcgtgatt ataaagagga ctcacccagg 60
ggcgcaatgg caagacgtca cctcaagagt cgcgcagata ccgcgtccaa ctcgacagcg 120
ccccaagtcg acgttggcgc cattgtcaag ggtgtgatcg acgacattcg cgccaatgga 180
gatacggcag ttcgcaagta ctcggagagg tttgacaaat ggtcgcctgc ctcgttcagg 240
ctctcccggg aagagattga ggcatccatt gcagcctgcc ctccacagac aatcgaggat 300
attgaacagg tccagaggaa tgtgcgggcc tttgcaaaag cgcaacgtga ctcgatcaaa 360
gatttcgagt atgaaattca gccagtaagt ctgaccctcg gcgcctttta a 411

<210> 2070
<211> 195
<212> DNA
<213> A.fumigatus

<400> 2070
actgacaata acagctacat cccaggcgga cgataccccc tccttgcctc cgcccatatg 60
accattctca cagccaaaga agctggcgtc cccaaggtca ttggctgtac tcctcctatc 120
gcaggcaaga ttcctcaggc cacaattgca gccgttttca ccacgccgaa ggaaggaaag 180
atcgtccctg agaag 195

<210> 2071
<211> 486
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (370)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2071
gttagtcttg gtccggccaa atatgttcga cggatgacat accgaaatgg tcaggtaatc 60
acagccagcc aactccgtga tctcgccggt gttacggaag gaagctccca tgacgatggt 120
cttgtaccca tgcttcttgt agtagttgaa aatgctctga acggacttga caccgggatc 180
ctcctcgggg ctgaagtcgc gcttgtgcgc agccttgtac cagtccagga tacggccgac 240
gaaggggggag atgaggaaag caccagcctc agcagcagca atggcctgga caagggagaa 300
catgatggtc aggttgcagt tgatgccgtg ctgagactgc aggatgtggg cggccttgat 360
accctcccan gtggaggcga tcttgataag aataccgtcc ttggaagatg ccttgttgct 420
cgtaaagctg cgcgagtcag ctatgtttcg ttatctgctg attccatcaa gtctggcgta 480
ccttga 486

<210> 2072
<211> 615
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (81)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2072
cgaaacatag ctgactcgcg cagctttacg agcaacaagg catcttccaa ggacggtatt 60

cttatcaaga tcgcctccac ntgggagggt atcaaggccg cccacatcct gcagtctcag 120
cacggcatca actgcaacct gaccatcatg ttctcccttg tccaggccat tgctgctgct 180
gaggctggtg ctttcctcat ctccccttc gtcggccgta tcctggactg gtacaaggct 240
gcgcacaagc gcgacttcag ccccgaggag gatcccggtg tcaagtccgt tcagagcatt 300
ttcaactact acaagaagca tgggtacaag accatcgtca tgggagcttc cttccgtaac 360
accggcgaga tcacggagtt ggctggctgt gattacctga ccatttcggt atgtcatccg 420
tcgaacatat ttggccggac caagactaac ctagaggtag cccaacctac tcgaggagtt 480
gtacaactcg acagcctccg tccccaagaa gctcgatgcc gccagcgccg ccagcctcga 540
catccccaaa cgcagctaca tcaacgacga ggctgccttc cgcttcgact tcaacgagga 600
ggctatggcc gttga 615

<210> 2073
<211> 237
<212> DNA
<213> A.fumigatus

<400> 2073
cccaacctac tcgaggagtt gtacaactcg acagcctccg tccccaagaa gctcgatgcc 60
gccagcgccg ccagcctcga catccccaaa cgcagctaca tcaacgacga ggctgccttc 120
cgcttcgact tcaacgagga ggctatggcc gttgagaagc tgcgtgaagg tatctccaag 180
ttcgcggctg acgccgtcac cctcaaggag ctcctcaagc agaagatcca ggcttag 237

<210> 2074
<211> 687
<212> DNA
<213> A.fumigatus

<400> 2074
gacggtacta tgcagccagc gcaagagaac cacgagaacg acgatcatca gccaggcacc 60
ccgccccgcc cgccttattc cccagtgact ccagttctgt cgcatctcgc cccggcgaac 120
gactccgcca tgagaaacgg agcttcccat tcttttgaac caccagctac atcgctctca 180
cctactactc cagctcttcc ctatgcatca ctctcgaact tcccagacac gcaaggccag 240
gctgtctttg gtcaagagcc cgcgccagta ccggtatcgg aaagtgagaa ccccgatgcg 300
atcgcattgc ggtccgccat ttctatcctg caactacaga aacaacagag tatacgagat 360
atacagacat tggagaagtt gaaaaaagtc gcttctgcgg atccggaggg gtttgctcgc 420
gaattggccg ccgggaatct caccacagca aaagatcagg gggcttacat caatttcaca 480
cataaagacg acaaagcggt tagcgacacg acaggagaat caaccagtga ggcgttggcc 540
gacataggac cgattccagc gccccaaaat gttgtccgaa tgccaccgat caactgggcc 600
aagtatcaag tcgtaggtga accgctggat cgcatgcatg aagatcaatt gcgacatccg 660
tctcctgggg agccgagacg tccataa 687

<210> 2075
<211> 591
<212> DNA
<213> A.fumigatus

<400> 2075
acaagcgtca ccaacctaga agccgataaa cgcagagcag gaaaaaatca agcggcagcg 60
cttccggccg ggcagcgagc agcagcggcc agggagacca gcggaagcaa cccgcacagg 120
aacaggctcg atcaaccggt ttcaggccca gccagtcatc cggcacgcta caacgccgcg 180
gcggctcttc atccaccgac tcgggctact tggaacgctc cgccagtcgc accgcgaacg 240
aagtggacaa ctaccagacc cccgccgcct cgcccaacca gaaccgccaa ctcagcgtca 300
actacggcaa tctcggccgt gaaccgtcca ccggccgccg cagggcaggt gccagcacca 360
ccgaccagca agttgcccag ccgtccccca ccgcaggcgg agtccccatc atcgcagagc 420
ccgtgccccc tcttcctcgc cagcagccgc cggcagcccc tgcatcacag gggatccct 480
cggagtaccc ctcgtatccc agcatgtcca actacgaagg tagtctctac ggatctcata 540

gccaggagac ggcgtacgat ccggagcagg cgctcgagct cccgtcggtg a 591

<210> 2076
<211> 684
<212> DNA
<213> A.fumigatus

<400> 2076
acgcagagca ggaaaaaatc aagcggcagc gcttccggcc gggcagcgag cagcagcggc 60
cagggagacc agcggaagca acccgcacag gaacaggctc gatcaaccgg tttcaggccc 120
agccagtcat ccggcacgct acaacgccgc ggcggctctt catccaccga ctcgggctac 180
ttggaacgct ccgccagtcg caccgcgaac gaagtggaca actaccagac ccccgccgcc 240
tcgcccaacc agaaccgcca actcagcgtc aactacggca atctcggccg tgaaccgtcc 300
accggccgcc gcagggcagg tgccagcacc accgaccagc aagttgccca gccgtccccc 360
accgcaggcg gagtccccat catcgcagag cccgtgcccc ctcttcctcg ccagcagccg 420
ccggcagccc ctgcatcaca ggggatcccc tcggagtacc cctcgtatcc cagcatgtcc 480
aactacgaag gtagtctcta cggatctcat agccaggaga cggcgtacga tccggagcag 540
gcgctcgagc tcccgtcggt gacagagcac tccgagtctg acccttaccg aaggttcccg 600
ggttcgccgg gggtgcaaca gcgctacccc gatgaccatt ccaggaactg gaatcagtct 660
cggccgccct acggaggcca ataa 684

<210> 2077
<211> 336
<212> DNA
<213> A.fumigatus

<400> 2077
tatgagcact gcaggatcct tcaccagagc cctagcaagc gcaacacgct gcttctggcc 60
accgctgatc agccggccac tggagcccac aactgtaccg tatccgtgct gcaggacact 120
gatgaagccg tccgcatccg caagcgacgc agctttggtg accaaaccga ctatttcagc 180
gacatttgga ccccgcgcct ctgctgcagc ggtcaaatcc ttgccgcccc tgacttcact 240
ggcgaggtcg gccaggtcag tgctcaacag ggttgccttc aggtgtgcat ggctcggatg 300
gttcgagttg atcagcccat gagcaatgtt ctctag 336

<210> 2078
<211> 495
<212> DNA
<213> A.fumigatus

<400> 2078
ttgccttgtt ccacgatatg gcccttgtgc atgacaatga tgttgtccgc actggtaatt 60
gtcgataagc gatgggcgat cgtgatgata gtcctgccag aggcaatgtt agagattgcc 120
cgctggatgc gctgttcact ccgtgaatcc agagacgccg tagcttcatc tagtatgagc 180
actgcaggat ccttcaccag agccctagca agcgcaacac gctgcttctg gccaccgctg 240
atcagccggc cactggagcc cacaactgta ccgtatccgt gctgcaggac actgatgaag 300
ccgtccgcat ccgcaagcga cgcagctttg gtgaccaaac cgactatttc agcgacattt 360
ggaccccgcg cctctgctgc agcggtcaaa tccttgccgc ccctgacttc actggcgagg 420
tcggccaggt cagtgctcaa cagggttgcc ttcaggtgtg catggctcgg atggttcgag 480
ttgatcagcc catga 495

<210> 2079
<211> 1509
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222> (22)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2079
tggcaagtcg accattgcgg gnttggtgac acgactttac gatcccacgc agggccaatt 60
cttttcgacg gccacgacct gcgtgatgtc aaccctcggg acttgagaag ctttctgagc 120
ctagttcagc aggagccctc tctcctggac cggtcgcttc tagagaacat tgctcatggg 180
ctgatcaact cgaaccatcc gagccatgca cacctgaagg caaccctgtt gagcactgac 240
ctggccgacc tcgccagtga agtcaggggc ggcaaggatt tgaccgctgc agcagaggcg 300
cggggtccaa atgtcgctga aatagtcggt ttggtcacca aagctgcgtc gcttgcggat 360
gcggacggct tcatcagtgt cctgcagcac ggatacggta cagttgtggg ctccagtggc 420
cggctgatca gcggtggcca gaagcagcgt gttgcgcttg ctagggctct ggtgaaggat 480
cctgcagtgc tcatactaga tgaagctacg gcgtctctgg attcacggag tgaacagcgc 540
atccagcggg caatctctaa cattgcctct ggcaggacta tcatcacgat cgcccatcgc 600
ttatcgacaa ttaccagtgc ggacaacatc attgtcatgc acaagggcca tatcgtggaa 660
caaggcaatc atgcgaccct catggctaag aatggcacct acgctgagct tgtcaaactg 720
cagactcttg caagcaagga tgagacaaca atcaacatcg acgccgccag caagtctgac 780
cagacatctt caagcgaggc tgacattgag aaaagtgcca ttctcctcga cgactttggc 840
gacgccgaga agattccagt ttcgaccacc gcagctcctg tagccgacgc ggcagaggaa 900
gcagaagaac cggagactcc gaaaaagtcc ctctgggcgc tggccaaagg ctacgcacca 960
gcactacgac cacatctact gtttattttc ctcgcactcc ttggctcaag tgtggttggc 1020
ggcgccttct ccggagaggc tgtcatcttc ggaaacaccg tgggcagtct gaatccctgc 1080
catagcgcag acagcatccg gtcaagagga aacttcttcg ggttgatgtt ctttatcctc 1140
gctattattg aattcttcgc caacgtggtc agctggtctg ggtttggctg ggtgtcggag 1200
aagatcgttt acgcggttcg ggtcttgtca ttccggtcac tcttcgagca ggacttgcaa 1260
tggcatcagt ccgagggccg cacaccagcc ttgcttttgt cctatatcac cagggatggc 1320
aatgccttgg ctggcttgag cggttcggtg attggcacgt tgttttccat tagtgtcaac 1380
ctcatcgcgg caatcattct gactcacatc atcgcctgga ggatcgcatt agtctgcctg 1440
gcgctggtgc cacttctgct tggagctgga ctgatggagc tccatgtgct cgggaagttt 1500
gaggagcgt 1509

<210> 2080
<211> 402
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (24),(247),(318)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2080
tggcccattt taaaggagaa cagngacctt gttcctttat tcaagtgggc cccttcttcc 60
acttcttgtt cgcagcgttg ccttctttcc agaagttggg gggggaatat tgaccgcgag 120
ccgttgatga ccagtacgag cggttccgaa catcgggtta cccaggcgga gggcggtttt 180
gaattcaagg acgtttcgtt caagtatcct tcgcgccctg agatcacggt gctcgacaac 240
atcattntta gcatcccggc caacaagcat actgccattg tcggtctatc gggtagtggc 300
aagtcgacca ttgcgggntt ggtgacacga ctttacgatc ccacgcaggg ccaattcttt 360
tcgacggcca cgacctgcgt gatgtcaacc ctcgggactt ga 402

<210> 2081
<211> 315
<212> DNA
<213> A.fumigatus

<400> 2081
gtttcggtta tcgaacatgt tctaatgttt gcaccaggta ctgtcgctct gcgtgaaatc 60
cgtcgctacc agaagtcgac tgagctcctg atccgcaagc tgcctttcca gcgtctggtc 120
cgtgaaattg ctcaggattt caagtccgac ctccgcttcc agtcctctgc catcggtgct 180
cttcaggagt ccgttgaggc ctacctcgtc tccctcttcg aggacaccaa cctgtgcgcc 240
atccacgcca agcgtgtcac catccagtcc aaggacatcc agctcgcccg tcgtcttcgt 300
ggtgagcgct cttag 315

<210> 2082
<211> 684
<212> DNA
<213> A.fumigatus

<400> 2082
gcacttattt acttccatcg cggcgttaag acagcgggat gcgagagaaa gtacccaaaa 60
tctgtagtga tctttagtgc gcccacctca ttagtcgcaa cagttggtca tcaaacgcat 120
cgcatgcgcc ggaagttact aaataacttc ttctcaaggc ggtcaattga gaatattgag 180
ccagttatcc acaattcact ctcaagattc ctagacggtc ttactacagc ctacaaagaa 240
ggcagcgtag tagagttgat cgacagacta caagggttga caggcgatgt gataacagaa 300
tatgcgtatg gagagaacta tgggctccaa gatcctgaga actatggcaa aggcattgtc 360
aaggttgtcc aagaaggaac ggaccagatt cacttcttta ggtttttccc tcttgtttcg 420
caactcttgc gaattatacc ctcatggttt atgggtcagg tcttcccggc ccgagcggca 480
atatatcagc tgctggatgg cgtacggaag caatcaatcc tcgcgcttca gcagaagaat 540
gtttccacgg ctccccagag gatgaccatt ttccaagctc ttacggctcc agaggtaccg 600
cccgaggaaa gaaatctgca gcgcctccag gatgaaggac tggttttgtt tgctgccggc 660
acagaaaaca cggcgaccac ttag 684

<210> 2083
<211> 624
<212> DNA
<213> A.fumigatus

<400> 2083
aatgcatgga tggcacatac tcagactccg gtgattttta accaccatga gccctatgtc 60
gtgaatgaca gcagtattat caatgtcgac ctcaacggca ttcagtcgac ccgtgcagct 120
aaggagaaca aggagcgggt gctgatcctc actcctctaa gagatgccgc tccccatctg 180
gaaaaatact tcgatctcct ctacaacatc acttaccccc atgaactcat tgatctggcc 240
ttccttgtcg gcgactctca ggatgacacg ctcgccgttc tcgccaggga gctgaaacga 300
attcaggatc aagtggaaga caaaattgct ttccgcagcg cgacaattat tcaaaaggaa 360
tttggagctg aaactggcat gaatgtcgag gatcgacact cctttgcggc ccaggggccc 420
cgtcgcaagg ctatcgcccg agctcgcaat tacctcctct actccgctct gaagcctgat 480
cactcctggg tctactggag agacgtggat atcgttgaca gccctccaac tattctggaa 540
gatttcattt cccacaatag ggacatcctt gttcccagta tgtcgaaact cttctattcc 600
agttgcctca gcgctaacgt atga 624

<210> 2084
<211> 1107
<212> DNA
<213> A.fumigatus

<400> 2084
gtaataggcg cccttaggcc attgtgtttt tccgcccctc ggtccagttc gggtctggat 60
cagttattct cttcagcggg gttatgggca accgcgggag catcagaaac ttcccagttc 120
tggaagcttc gtgaggagct caaccgcacc gacgcggacg tttctatctt cttcgtcaat 180
gccaacagcg ttatgtacga gtatcccacc gatgacccga ttttcagcgc ccacgtgtcg 240
gcgctcagcc agctccgcaa gatgggaatg aacacctcca tcgccgaatt tgacgactgg 300

tactcggcgg acaccctcac gaccattttc ggctgcatcg accagttcca gatctgcaat 360
gcgcggacag aagtctgctc cgatctgcaa ggtatccaag catgggctag tctagacgga 420
atgctagcct tcattgacgc ctacgaccta agcccgctcc aggccgacac actctcggta 480
ctcgtgaact acctggtgct gaacaatatg tactacagta tctacgggcg gtcatcgtac 540
gcattgcgcg cccaggagac gctgtcgaac ctgaaccagg ttgcgcagct gccgagcaac 600
cagtggcaga ttgaggtgca atcgtggttc gagaccaacc tggccaagct gcaggagcgc 660
agcgtacagt ttgccacggg gcctcgcagc tcccgtgagg gaaaacagcg agtggccctg 720
acggatcaga ccccccctgtg caaggcgcag aaggtgcgct gccccgcagg gatgacttcc 780
ttctctgtat tgggcgtgtc ctgtcttctt gcagttggcg gcttgattat actctccaac 840
ttgtcgctcg actctatcat ggcacgggtt ggccccaagt ggttcccagg tagcgcatat 900
cggcacctga actgggcgct ggacgacaag ctgcagctcc agcgcaaggc cttcgaaggg 960
gccggagtcg gccattggca tgggcaaacc gcggctgtgc cggtcacaga tacgggggag 1020
acgttcctcg cgtgggccaa taatgaagat cctgctccaa agagtgatca tcttgataca 1080
tcggacgacc acgctacacg tgaatga 1107

<210> 2085
<211> 396
<212> DNA
<213> A.fumigatus

<400> 2085
tcaagccgcc aactgcaaga agacaggaca cgcccaatac agagaaggaa gtcatccctg 60
cggggcagcg caccttctgc gccttgcaca ggggggtctg atccgtcagg gccactcgct 120
gttttccctc acgggagctg cgaggccccg tggcaaactg tacgctgcgc tcctgcagct 180
tggccaggtt ggtctcgaac cacgattgca cctcaatctg ccactggttg ctcggcagct 240
gcgcaacctg gttcaggttc gacagcgtct cctgggcgcg caatgcgtac gatgaccgcc 300
cgtagatact gtagtacata ttgttcagca ccaggtagtt cacgagtacc gagagtgtgt 360
cggcctggag cgggcttagg tcgtaggcgt caatga 396

<210> 2086
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2086
ctctggtgga gcaagtcaga tagcggaaac agcgtgattg acatcaacat ctctcacttc 60
cggacggagt atatcgcttt cttcccccac aagtatcaga aatcagctta tctattttct 120
catcgacatc ctcgcacatt cttcaaccgg cgtttttcgt cctcacgtgt atattactgg 180
caatggtgta gcaccaccga gcgcaactag 210

<210> 2087
<211> 489
<212> DNA
<213> A.fumigatus

<400> 2087
aacattgaag gtgggtggtt attgtcctat gaatggcggt ggtcgcttgc tgactttgat 60
cgtgattttg gaatgcagtg gtcccttgta catacctttc gcaacgaaga cgatggcgag 120
acaatccgaa ccctgtcgtg gggctctccc gatgagctac tcctgggcaa ttcgcacctc 180
acactgtggt tcttgaatga cgtgccgcgc cttatatgga agcagaagct cgccaacccg 240
gtaaagttcg cgcagttctc tcccgattcg accctggtgg ccactacggg acaatatgat 300
cgcatggtca aggtttggcg gcggctctcc ttcggggcag atgatgtgcg gttcgaggtt 360
tcatatcttc cacaccaggc ggttgttaca gggatacatt ggcgtaagcc aattcatcga 420
gaacaatcct tggacaatgt gttctacacc ctgagtgcag ataataagat cagggtctgg 480
gctgcgatc 489

<210> 2088
<211> 375
<212> DNA
<213> A.fumigatus

<400> 2088
gtgtacattt ccgggcatgc gcttgttatc ctcaccggtc cgcagaccct ccttcagacc 60
atctatgtgg acgagaccaa gacactcgag gctgtgacga ttgatgaagc ttctgggaaa 120
attgctgtgt gtggtggacc ggacgttttc atctaccagc cgtacggtat ccagcatgaa 180
acattgaagg tgggtggtta ttgtcctatg aatggcggtg gtcgcttgct gactttgatc 240
gtgattttgg aatgcagtgg tcccttgtac ataccttttcg caacgaagac gatggcgaga 300
caatccgaac cctgtcgtgg ggctctcccg atgagctact cctgggcaat tcgcacctca 360
cactgtggtt cttga 375

<210> 2089
<211> 435
<212> DNA
<213> A.fumigatus

<400> 2089
caagacaata gggtgtatgt tggctatcca aacatcgcac aaggcgacat caatgattcc 60
acattggaaa tcaaggagat gatcatctcc gaccccaagc cggattcgtt ctacttggac 120
cagacacagg tcatcggctc gcacagcatg ttccatccga cgatctatgc cttcgatgct 180
gctgtcagct tgctgggcgc tgcaacgttc gcaaccgtca aggttccaca ggtgaaagcc 240
aatgacggca ctgtagtcca tatcagccag accctggacc tgagcgatgt gggtgccttt 300
ggaggatttg ctacagcggt catgcagaat gaggagatta aattaaacat ctatggcaag 360
cccgacctga agcagggcgg cctgcctaaa atcgatgtga cgtacaacaa gactgttact 420
atgaagggtg agtga 435

<210> 2090
<211> 231
<212> DNA
<213> A.fumigatus

<400> 2090
tcagggctcg gtcagactca tggcgttcgg acacagctga ttatgcaaac tctagctctc 60
aacaagctcg aaggtttcgc cattacggaa atgcatgcct tgtctggtaa gtcggcgaat 120
ggcgccaatt ttggtggaac cgtgtatatc cccaacccat ctccgatgac catcagcatg 180
gtatgttgct tttcggtccc tgaatggtac cggtcacctg gatggaccta a 231

<210> 2091
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2091
cgtcttgagt tgcctgcaat tgctgatcat cagtccagtg atataaacta tctagtgatg 60
gattacctta ttaccaatgg ctacccagct gctgcaaaga aatttgcagt tgaggcaaac 120
atacaaccca gggcggacat tgagtccatc caggaaagag tagagatccg cactgcgatt 180
cattctggca acattcaagc tgcaatcgag aagatcaatg atctcaaccc acaggtatgc 240
atatttttct attcttgccc tcctgcccta ccacctatcc tttga 285

<210> 2092
<211> 195
<212> DNA
<213> A.fumigatus

<400> 2092
gtaaatcatt cttgttattc tagatggacc acttataatt tgcatctaag tgctgtcaag 60
accgactgct cgggactcca ggctggctac tttgtctgca tcggagtggc tggctcaacg 120
accacgacga catctaaccc gcactctcct cagcagactg ggattgctgc aaactgtacg 180
gttgccattg actaa 195

<210> 2093
<211> 258
<212> DNA
<213> A.fumigatus

<400> 2093
gtgaagggac tggatcgctg caatgtcgcg atgtccgctc actctcaaac tatctctaca 60
atccgtttcg ccgtacttca cacctccgct aacctagtga tacctcttcc caccttcga 120
ttcattagct tcccctattt ccatcttcct cttattctca ctcctctcct ccttacttca 180
cttctccatt tttccactct catcttcact cccatttctc ctccttcccc ttcattcctt 240
cccaccctct tttcaacc 258

<210> 2094
<211> 336
<212> DNA
<213> A.fumigatus

<400> 2094
agcatcaatt catataaaga ccacagattc acggcgcctg gtaagacagt catcaaacta 60
ctcaaccgcg tcaacatcaa catccccccc aagctacaac caaccatccc cgaaacaagc 120
agcaaccaga ccaccctgcc ccctctattt gccagttttc caagacacct tctccaccct 180
cccatcatcc tccagcttgt tatacgcccg atcatggcga ttctcgatct cgtcattatg 240
ccgcctcact tcctcgggta catctggacg caggttcccg tcctcgtcga tgttgggcga 300
ctgccctctg ctgatggtcg gccgggcgtt gtttga 336

<210> 2095
<211> 483
<212> DNA
<213> A.fumigatus

<400> 2095
ccccagaaat gccggacgtt ttccaagcat aaagagtcta cacaaacatc atcatcgatc 60
acatcaaggt ctcccatccg aacgccgacc tttctctcct ctgcgaccag cgcaatctcg 120
tccagtacca ccttctcaac ctccccctccg cccgccatct tcccacctgg ttccccaccc 180
cccatcatca aaagatctac gaaacctgcc gtctcgccgc cctcatctac gccgtcggcg 240
tcaccttccc cctcccattc caatgctcgc ctctcccccg tctcgcaaac ctcctccaag 300
aaaccctaca gcagaccccc gacgcaaccc ccctctggac ccacccgcac gcacaaatcg 360
ccctcctctg ggccctcacc ctcggcggca tcgcggccga gaaccgccca gaacgggctt 420
ggttcgtaca taccctcgcc caagcggctt ccagtaatgg gatctacttc tggccgaagc 480
tga 483

<210> 2096
<211> 498
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (22)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2096
cttggagttc gggttcggcc gnttgtgtca gatcggctta accccagaaa tgccggacgt 60
tttccaagca taaagagtct acacaaacat catcatcgat cacatcaagg tctcccatcc 120
gaacgccgac ctttctctcc tctgcgacca gcgcaatctc gtccagtacc accttctcaa 180
cctccctcc gcccgccatc ttcccacctg gttccccacc ccccatcatc aaaagatcta 240
cgaaacctgc cgtctcgccg ccctcatcta cgccgtcggc gtcaccttcc ccctcccatt 300
ccaatgctcg cctctccccc gtctcgcaaa cctcctccaa gaaaccctac agcagacccc 360
cgacgcaacc ccctctgga cccacccgca cgcacaaatc gccctcctct gggccctcac 420
cctcggcggc atcgcggccg agaaccgccc agaacgggct tggttcgtac ataccctcgc 480
ccaagcggct tccagtaa 498

<210> 2097
<211> 540
<212> DNA
<213> A.fumigatus

<400> 2097
agagtctaca caaacatcat catcgatcac atcaaggtct cccatccgaa cgccgacctt 60
tctctcctct gcgaccagcg caatctcgtc cagtaccacc ttctcaacct cccctccgcc 120
cgccatcttc ccacctggtt ccccaccccc catcatcaaa agatctacga aacctgccgt 180
ctcgccgccc tcatctacgc cgtcggcgtc accttccccc tcccattcca atgctcgcct 240
ctcccccgtc tcgcaaacct cctccaagaa accctacagc agacccccga cgcaacccc 300
ctctggaccc acccgcacgc acaaatcgcc ctcctctggg ccctcaccct cggcggcatc 360
gcggccgaga accgcccaga acgggcttgg ttcgtacata ccctcgccca agcggcttcc 420
agtaatggga tctacttctg gccgaagctg aagagcgtcc tggagttcat gctctggtat 480
gatgctgcgt gtgacgaggc ggggtattcc ctctggctgg aagtcgcggg gcttttgtga 540

<210> 2098
<211> 531
<212> DNA
<213> A.fumigatus

<400> 2098
agactccttg ttgggtttct cgataacaaa tctaccggaa agacagcaga tacgaatggg 60
tcagctaccg aagggtcaga agaagattcg cggccagtgt atgcttcgac aggcatgtcg 120
agcgaagagg acctgtccgt cgaaacagac atcgtcaagg attatcaaac cttcaagttt 180
ctagacctca acaaaccatt gcttcttcaa ctctggaata gtggcttcag caaagagttc 240
tacctacagc agatccaccg gccgcgccac tataagggag gggagtcggc ccccctattt 300
gggaacttcc tggagccctt gagcaagacc gcgtggtatg tggttccttt gctctggctt 360
cctccagtca cctatggaag ttttgttgga tttgctggac tgggaaatgt ccctacagca 420
gcctcctact ggctgtttgg tcttttcctt tggaccttga ttgaatatct catgcacaga 480
tttctttttc acattgacgg gtacgtaatc tactgctgtc tgcccttcta a 531

<210> 2099
<211> 282
<212> DNA
<213> A.fumigatus

<400> 2099
cgggtacgta atctactgct gtctgccctt ctaacttcac ctgacgtttt ggccttcctc 60
agatatctcc ctgataatcg agtcggcatc accctccatt tccttcttca cggaatccac 120
cattatctgc caatggataa ataccggctt gtgatgccac cagctttgtt cgtgattctg 180
gccacgccct tctggaaact ggctcacaca gttttcttct ataactggta cgctgcggtc 240
acagttttct gtggtggcgt atttggatat atctggttat ga 282

<210> 2100
<211> 630
<212> DNA
<213> A.fumigatus

<400> 2100
caagtacgtg tttgcctttc acattttccg tgccaccggc ctggtctttc aagtgctgga 60
ctaacaacat taccagtctc tccatcggct tcccatgtca tcgtctgctc acggtccatg 120
tcaatgcgaa tctatgcctt aacacccttc gacgaaacct ccagaacggt tgaaacatct 180
cttcttcgaa ctttgaagcc gcacaccgga cctgtcgtga catctacagt cgacccaact 240
agcacactac tcgcaaccgg agctgcagat ggctcgatca aggtctggga cattagggga 300
ggctatatca cacatacctt ccatgttcat ggcggtgtta tatcagccct gtgctttttc 360
cagtccccag ttcaggatgg tgacacaaag tcttcaaaaa agaagcagtc aaagaagatg 420
tctgtggatc tggacggtga cgacgacatg gctgaatctg acttcgcggt gggctttcga 480
cttgcctcag gagacgaaga gggcaaggtt cgagtgtggg atctgaacaa gagaaagtca 540
gtgacaacgc ttgagtctca cgtctctgta gtacgaagct tgtcatattc ttccttcgga 600
gaatgcattg ctatctgctg ctcgagataa 630

<210> 2101
<211> 552
<212> DNA
<213> A.fumigatus

<400> 2101
tacgaagctt gtcatattct tccttcggag aatgcattgc tatctgctgc tcgagataag 60
accgttattg tctgggacgt gaggaccttc aaaacgcggc gaatcatacc cgtgctcgaa 120
agtgtggaag ctgctacatt tgtcgccgaa agtgggctgt gcatggtggc aggtgaaaac 180
ggcaaattgc gcgtatggga ctgcaaccgc ggaggagagg tgaccaaaga gcaagaagct 240
gggcctgaat tcgaggcagt tgtggccatc cactacttcc ctggtatgaa gttcgctatg 300
accgttcatg cagaccagac cctgaggctt cattcactcg agtccttgtc cgcctttaag 360
ccgggctcca cactggatcc tttgacagtt gtcaggcgca tatcaggcaa tgacgatgat 420
attatcgatt tagcatatgt cggtcccgat agatcaatgc tggcgcttgc caccaacacg 480
gatagcattc gcattatatc agtcgctccg tctgaggacc gtccgtcgac ccaagaccgt 540
gaatatttcg gt 552

<210> 2102
<211> 495
<212> DNA
<213> A.fumigatus

<400> 2102
tctgttaaac gcctgactgt atatccagag cgacccgcca tgcagcccca atttcgcgta 60
gaggtcgtta gtgacgacga cttccccgag ctgtaccgcg ctctctggga agcctttgag 120
aatccctacc agggcatcgt ccgcttattc ttccccatcc acaacgatga tcgcgaaggc 180
agtctgaagg cgtgcgtcaa gtctcaactg gaagagtacc acaaagagca gccgcatgtc 240
acctggatca aagtcgtgga tacagaagcc aacaagatcg ccgccgcggc caaatggtac 300
ttttaccccg agaacccctt tgcgaaaaag gagggcccga tcgtggcgga ctggttcccc 360
gagggagtga cgagggagtg ggcgacgcaa gcagtcaggc agtttgagca tccgcgggag 420
agcatggccc gacgacccca tgcttgtcag tttggccatt tgcatccccg gggtagatgg 480
ggaaaactct gctga 495

<210> 2103
<211> 240
<212> DNA
<213> A.fumigatus

<400> 2103
gtatcagcgg tcaagcacaa ccatatcatg agcgtcaaca gtcagggcaa gtacttatct 60
gaggatcctg gatctcaata tgaggaaacc atttacgaat ctacggtcag atctcccatt 120
gaccttatca tgccatatga gacatataac ctgaggcaaa ttgccaccca gcagtcggag 180
aagtcgcgca tactgtcata tgcatgcgct ccatatgtga ccacgcgcac tatagcggat 240

<210> 2104
<211> 687
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (67)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2104
ccgtcttcta acattatctt ctcacttacg tcggccaatg tcgttacagg ctcagagact 60
ggccatntac acatcctgaa cccagctacc ctgaaacccg agctcgtcac tccagtcacg 120
cctgggtcac ctctcgtcac tgttctctgg catgaaaggc tcaatcagat ccttactggt 180
tctgccaacg ctgagacaca tgttctgtac aatcccaata tgtcgaccaa gggagctgcc 240
ttggtcatgt ccagggcgcc taaacgtcgc catatcgacg atgacccgtc gcttaccatg 300
gacctgtctg ctggtatctc gggcgactcc gttgtggtcg gatcgaacgg agtacctcac 360
tacagctcgg ctacctggtc tgcccgccat cctaccgtcg ggctcacggc ttcgggtcgt 420
tccagggacc cgcgacgacc acatctgccg gcaactactc cttttgcaaa atcgcagccg 480
gatgaacggc atatccgcga aaatattcct cttagctcca tgcgagacga agaccctcgc 540
gaggcgctgc tgaagtatgc cgagaaggca gagaaagatc ccatcttcac caaggcatgg 600
aaagaaacac agccagttcc gatattcaga gagctgagcg atgacgagga agagcaagaa 660
cccaataaga agagggccaa gcggtga 687

<210> 2105
<211> 381
<212> DNA
<213> A.fumigatus

<400> 2105
cgtaagttcc ctgatcccga attgatccgg tgggcaaatg acatgtcccg caaaggaggc 60
agaacttcgt caatacgcag ctttaaggac caaactatcg gcacgggaat tttccttctt 120
gatgttctga acgggatgaa gagtagctat gttgactacg acctcgtcac acccggccga 180
tcagacgagg aagcgtatgc taatgccaaa ttgagcatta gcatagcaag aaagttaggc 240
gcgactattt ggttggtccc tgaggatatt tgtcaagtgc ggtctcgctt ggtcaccaca 300
ttcattggta agttgggttc ttctccacaa agatcatgcc taataactca ttcaaatagg 360
ttctctgatg gccacatatg a 381

<210> 2106
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2106
cgtccatcta gcaacctcaa tcgcatactc ttaaagcgaa gggtgctcga ttacttccaa 60
ttcctcgtta atcggaccgt cgaacgagca aagaaagcga gtcaaggtgc agagcatttc 120
cacgttcaca ttagccataa cggtccgctg ctgcccaatg gcgatttcaa gggtaagaat 180
tacgcaaacg ccgagcgact ttcttcaatg gcctaa 216

<210> 2107
<211> 507
<212> DNA
<213> A.fumigatus

<400> 2107
tcctcccacc accccacaga aaacggctca acgctctcac catccaactc ctccaaatcg 60
ccctcctcgc cgcgcactcg cgcgccgtta tgtcctcttg gccctcctac taataccagc 120
aaaacaggga catccccgac ctccgcgcgc tcctcctcaa tcacaccctt gacccgtcca 180
accgcagcca gaaactcctt gagacttttc acgtcattcc gcgactcggg cgaacctgca 240
cctgcacctg cacctgcatc cgtccccgta ccagcgcccg caggtaaact cgcactccta 300
tcctccagat tccgaataca gatcaccagc gccccgatcg cgtcgcggac aacccgtgcg 360
tcttcgcctg agaactcgac agcccattgc gcgggtgagg gcggggccgc gctttccct 420
tctcctgctg tctgtgtgcg tgtgcgttca tctgtcgccg tctggagagg gatctcgtca 480
acccatatcg ggatgtcggc ggtgtag 507

<210> 2108
<211> 891
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (36)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2108
gggctcatga aaaagctgca gtacacccat aacatngacg ctcatgttcg cgcccttggt 60
cagaaataca tgggtatccg tcccaatgtt caccaggagc tcctggagga aaactcgctc 120
aatgatatga gtcgccacga cgtcttggtt gataacttct tgaacgcaca atgtaaggca 180
tcagagctga gcagcagtag tatcctgcag tattcactaa cactcttaat agacttctcc 240
gagatttcac ttggcactcc cccgcagaag ttcaaggttg tcctagacac tggtagctcg 300
aacctgtggg tccctggctc agactgtagc tctatcgcct gctttctgca caacaagtac 360
gattcttctg cttcgtccac ctacaaggcg aatggcaccg agtttgccat caagtacgga 420
tccggcgagc tcagcgggtt tgtgtctcag gacactctcc aaattggtga tttgaaggtt 480
gtgaagcagg actttgctga ggccaccaat gagcctggtc ttgcttttgc ctttggccgg 540
tttgacggta ttctcggatt gggctacgac accatctccg tcaacaagat tgttcctcct 600
ttctataaca tgctggacca gggacttctc gacgagcccg tcttcgcttt ctacctggga 660
gacacgaaca aggaaggcga caactccgag gcctccttcg gcggtgttga caagaaccac 720
tacaccggtg aattgaccaa gattcctctc cgccgaaagg cttactggga agttgatttc 780
gatgccattg ctcttggtga caacgtcgct gagcttgaga acaccggcat cattctcgac 840
accggcactt ctcttattgc cctcccgtcc actcttgctg acctgctgta a 891

<210> 2109
<211> 330
<212> DNA
<213> A.fumigatus

<400> 2109
cgtgactcct tgcccgacct cactttcact ctggctggtc acaactttcc cattggtccc 60
tatgactata ctctagaggt tcaggggctc ttgccatcag ctccctttaa tggggcttgg 120
acttccccga tccccgttgg tccccccttgc ctattttggg ggaagacgct ttcctgccga 180
aaagttggta cgcgttttac caatctttgg gtaaccaccc ctgttgggtc tggcttaagg 240
gcccaaatta atgttttctc tgcctggcag ccaccgctgt ttatacccaa ttgtgattgc 300
cacgaacgat tgcgtttgtt cccttccttg 330

<210> 2110
<211> 393
<212> DNA
<213> A.fumigatus

<400> 2110
cacattcacg caccccaatt cactgaccct tggacttctg cacacacgtc ttcccactcg 60
actcctccag tgtacgcaac ttccatggga atcaatcata cgaagccaga ggaagtgagc 120
agacctacgt tgtccatgcc atactcgagc gttcctgtct ccgcaccctc gatggtcaca 180
agcggtaact tctcaacagc ccccacgggc tactccgggg cggaggtgat aggtctgcag 240
catgatatgc ctcgcacaac tttcgaacaa gctcctacct acaccacagc ctcgtcaatg 300
agcagtttca cgcctgcaac ttatgcgccg atcagctatg ctccccctct cgctcatcct 360
cacccagaca gtcgccgtgt ttcacatgtg taa 393

<210> 2111
<211> 588
<212> DNA
<213> A.fumigatus

<400> 2111
aagcacaagc cgctaacaag ttccttccat tccagcgatc ctcgtggtaa ccattcacag 60
cctccgtcgg gccctacatt tggtgatgct cttgatgcta gtcgtggaat ggtcgcgctc 120
agccaggatt tgacacctcg caacatctat gctcctcgtg cccgggggtc tggggactcg 180
tacggatttc ttgcggccca ttcgtccggg tcatccatct cctcgggggg aaattacccc 240
tactacagtg catctgttgc ttcagttgag tcgtctgtca cggattacag ttccacaaca 300
tcagagtcgt atgagaatgg tcatctgtcg cgaacactac ctcgcccgtc gaacctcttg 360
tctgggagtg ctcctcccgg cccacaatct atgatgagcc aattcagctc gaagatgcca 420
tccaacacac agaagaagca caagtgcaag gtgtgcgata agcggttcac gcgcccatcg 480
tcactacaaa cgcatatgta cagtcacact ggggaaaaac gtaagtactt tgtgatattt 540
ctcgttgaag ccttcggtac tgactttgaa actagcgttt gcatgtga 588

<210> 2112
<211> 408
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (159)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2112
tatttctcgt tgaagccttc ggtactgact ttgaaactag cgtttgcatg tgacgttgaa 60
aggtgtggaa ggcacttctc tgttgtctcg aatctccgtc ggcacaaaaa agtccacaag 120
ggtgaaaaaa aaaacgtatc tggtggcgaa gacgagtana aagcccgttc tctactctgc 180
acccgaagaa cgatgccttt ccccttttctg tgccatttga tggatgccag atcattcagt 240
gcttgggtta tcgcgctgag cggacgtcca aaccaccttc ccaccaattt ggtgggctct 300
cgtcccttgt acaataaatt catccctcgc tgcttttgct acttttttccc gttttttctt 360
tttctttttt acatttccct tctgatctct gctaggccag agaattga 408

<210> 2113
<211> 978
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222> (795),(938)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2113
tgggttccgg ttggagcgct ggttttcact gaaccgtgtc gatccttcca gccccgtggt 60
gaagactcag ctgtttatgt ctgcgctttg aagtttgtgg atattggccc tgcctcgcag 120
tcggtgcgac gtccggatgc tggccgtctc gagagcaccg cgctccgact tctgattgag 180
tccttgcccc atgcaactat ctcgacgatc caggccggac tacttcttat ggagaagtcc 240
accatcgcga ctcatgcatt gaatgcccag ctggtcaccg ctgggttcga gcttgggctg 300
caccaggact gcagtggctg gaacatggag acctgggaaa aggggttgcg gaaacggctg 360
gcgtgggccc tgtatatgca ggacaaatgg tcggcgctga ttcacgggcg gccctcccac 420
atcttcgcct tcaactggac cgtcaaggac ttggtagaac aggatttcac cgaggccttc 480
cacacggaca acgcgcagca ggacgatgca gacgtcggcc acggtccgct ctttttctgc 540
cacatggtgg cgctgaccac catcctgtct gacattctcg accgattcta cactcttcaa 600
gcgatcgagg agttcaaagc ggctggcgcg aaccgaacac gcatgatcct ggagcgggcc 660
aaaccggccc agatccgact gaaggaatgg tttgcatcgc tgccgccgca actgaagatg 720
gactcgagca tagacctctt cgacacggtc actgaagaca ccgcccgcaa cgggcccctc 780
caccttcct acttngcaac ccgaaatcac cctccaccgc tgcatcattc ggtccttctc 840
cccggacacg ggcgacgccc tacctttcc acatttgccg ctccggcgca aaagacgcgc 900
cttaatttta accatggact ttgtcaaccg gctgcgtnaa gcttacctcc gttatttttg 960
cccggcggct tcccggat 978

<210> 2114
<211> 480
<212> DNA
<213> A.fumigatus

<400> 2114
ccttgcggat ttccggccgt ggtgcaagta tgtcaaccag cgcgagaggg gtttgatccc 60
tcgtcaactg caattcgtca aacggactcc agagctggaa aaccgataga tgccgatgca 120
tgccagaact tcaaagacaa cgtcctcttc cagtcatggc aaacgcggtc tgatgtactg 180
aacttctgcg ctggggtggc gaccagtccc gatcccgacg atccggatct tattcttcga 240
caggaagagt cggcaaagga acgggaaaag attgttgatg aaagattgga tccatactct 300
gctcgatatt tcccgaaaga gctgaggaca gagtcgcttg cgaacttggt tcggaaccaa 360
agaacagtgg aagacatcat aagagcgcga acctggagcg tagttactga gaggtgcagt 420
gattcggcct acacctggga ggaggctttg aataactggc gccagacgaa acaacggtga 480

<210> 2115
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (40),(56)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2115
cgaccggtac actttgaatt gacagatctc agggacacan tggaacccaa ggtctntggc 60
ggctcgccca gccaggttgc tgctatcaac cacggaaact actttctaca cgctgccatg 120
gaaagcctct tgaaagaacg acaccaacat ccatgccggc aatcagggag gacccttttct 180
ggtccttctg attatgagaa atga 204

<210> 2116
<211> 273

<212> DNA
<213> A.fumigatus

<400> 2116
aaaatatccc gggggttgtg gtattcggcc cgattcgtta ttgtcggaca tctggacgat 60
cgatcgtccg ccaaaattcc ctgttatgtc cagcgaggca gaaaaaatgg atttcgctgt 120
cgtagaagaa ttagattctg ttccaatggc ctttttttgt ggagtgctca caacagttca 180
ggcgctccct ttgataccgg cacatcatac agacctggtg caaggttcgg cccgagtggc 240
atcagacaag gttctcgccg tcttaatctc tag 273

<210> 2117
<211> 291
<212> DNA
<213> A.fumigatus

<400> 2117
tattccggtg acgtcgtatg tctcttatct ctcaaaaata tttttgaccg tgctaactgg 60
tctagatacg acaatgcttg ggccatccag cagattgaag aaggacataa cagcctgctg 120
atgcgcaagc ctttcaccga tgcggatgcg gaaggactgt ccagggccgg aaagactctg 180
ccgcggatta tcactctggg gggtgatcat accatcacac tgccgttgct gcgcagtatc 240
aacaaggctt acgggcccgt gactgtgatc catttcgaca gtcatctgta g 291

<210> 2118
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2118
ccatggatag ttgcaccggc aaccggtacc cccgagactg gaggctggtc gacccgtgag 60
ctccgcacca tcatccgtgg ccttgacggc ctcaacttca tcggtgcgga tatcgtcgag 120
gttgctccag cttatgacac aaatgcagag ctttctacca tgtatgttcc ctgcctgttt 180
gatttgaaat gtaattga 198

<210> 2119
<211> 243
<212> DNA
<213> A.fumigatus

<400> 2119
ctacccatgc ttacgatggt ggtttggcaa ggctcacgca aattggggtt tagcggtggc 60
tacaatgtac cgctggaagc gaatccattc gtcagtgagc tcaaggtttt ggattgtggt 120
gatattccgg tgacgtcgta tgtctcttat ctctcaaaaa tatttttgac cgtgctaact 180
ggtctagata cgacaatgct tgggccatcc agcagattga agaaggacat aacagcctgc 240
tga 243

<210> 2120
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2120
ttaattttag tagtgtgggg aaacaaacct accgcgtgta ggcatggcca aggaacattt 60
cgacgctcaa ttcattgtca tatgagaact ccacctattt gtcttatact aaagctccaa 120
gtcaaacagc tagctataaa taattttctt ttacctctat ccttccttct acccttttcaa 180
gaataa 186

<210> 2121
<211> 426
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (373),(375)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2121
ataattttct tttacctcta tccttccttc tacccтttca agaataagca taccggtgtt 60
taccaaatca tggagaacag ttcctcatct gaaggaagag atccgtcagc cttccttggt 120
gaaataattg gtgctccagt tacagtaaag ctaaactcag gtgttgtcta caaaggtttc 180
tatataatct ccattctttg catatctata ttcgtgctga taatctccac aggcgaactc 240
caatcagtag atggttacat gaatattgcc ctggagagat ccgaagaatt tgtggatggc 300
aaattaaagc gaagttatgg agatgctttc attcgaagga aaataatggt tcgttcatgc 360
aatcagtcat ttntngaccc tccgtctata ctaatgaacc tagtgcttta tatctcagcg 420
caatga 426

<210> 2122
<211> 804
<212> DNA
<213> A.fumigatus

<400> 2122
actctcgaaa gacaaaccat atcttcagta ttctctgtca ttcattctgc tgatctacta 60
gtcttccagc cgccgcgatg tccgagtctc ctccgccccc gccgtcatgg agcatcgctg 120
ccatggctaa caatgccgtt cattttcttc gattaccagt tttggcatct tccggtctcg 180
ccgttgttgc cagtggtctc ttatacttta agcaaaagtg cggccctgac ccttagattg 240
acaatattcc agtcgcttgt atggctggaa actgatcgcg tgtccagtga gctgatctac 300
cctcgcaatg tccccgccga tgcccgcacc aatgttccca gtccgcgaca attcggcatc 360
agcgattatg aggatctcca aattcccacg ccggacggag agtcattaca tgccttcttc 420
atccgtcccg caaacaagca acatgctcgg aacataactg tgttgatgtt tcacgggaat 480
gcgggcaata ttggccaccg tgtcccaatc gccaaggtgc tccaagagat cctgggctgc 540
aatgtgttga tgttggagta ccgtggctat ggtctttcga caggtgttcc agatgaggca 600
gggcttaaga tcgatgcgca aaccggcttc gactacttac gacaacgggc agagacgagg 660
aacacgacga ttattgtgta tgggcaaagc ctgggtggtg cagtagccat taatttggtt 720
gctgagaacc aagccagtgg tgatgttggc ggtttaatac tagagaatac attcttaagt 780
atccgcaagt taatcccaac gtaa 804

<210> 2123
<211> 666
<212> DNA
<213> A.fumigatus

<400> 2123
tacggcagaa gtggattaaa gaatcccagg gagccgaaat ggatttcagg tctagatcaa 60
agatatcaat ctgcggttgt cggaagcaca gtatttgagg cagttcgtct ccatgctttg 120
actgatatta gatcccatgg ttggccctat cttgatttga aagtggcctt ttctgggccc 180
ctcctttccg gctattgcat tctttccctt ttccccтttt ttctcttctt catgcttcca 240
tccatttcta ccttctcttc ccttcccgtt tccctctcat tttctgatcc cttctcatct 300
cccgtctttt cttccccccc ctctcttgac tatgtatttg ctccttctcc ctcttacccc 360
cgcatttcct atttttgct ctctccttgt gttcttctcc ctttttcctc ccccctcctt 420
cctctcttct tgtccctgga ctccctacct cttcttttct ctccattctt acactttctc 480
ctccccttat ttcttattcc gtccttcccc tctctcactc tttctcttgg catctcctgt 540

ctttctcta tctactgtgt cttatcccat gtgttctctt cattcctttc ttctcttctt 600
ctctcctctt tcaatttctc ttttcgtccc tacttcttct tcgtcaccct tcttgcatct 660
tttcct 666

<210> 2124
<211> 507
<212> DNA
<213> A.fumigatus

<400> 2124
aagtggcctt ttctgggccc ctcctttccg gctattgcat tctttccctt ttccccttt 60
ttctcttctt catgcttcca tccatttcta ccttctcttc ccttcccgtt tccctctcat 120
tttctgatcc cttctcatct cccgtctttt cttcccccc ctctcttgac tatgtatttg 180
ctccttctcc ctcttacccc cgcatttcct atttttgct ctctccttgt gttcttctcc 240
ctttttcctc ccccctcctt cctctcttct tgtccctgga ctccctacct cttctttct 300
ctccattctt acactttctc ctcccttat ttcttattcc gtccttcccc tctctcactc 360
tttctcttgg catctcctgt cttttctcta tctactgtgt cttatcccat gtgttctctt 420
cattcctttc ttctcttctt ctctcctctt tcaatttctc ttttcgtccc tacttcttct 480
tcgtcaccct tcttgcatct tttcctc 507

<210> 2125
<211> 429
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (12)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2125
gcggggtttt tncgtgagac cgccccttcc agccccgtgg tgaagaccat cattcaggga 60
atcccggctt ttgcactggc ctgcgggatc tggtttatgc ccttctcgcc tcggtggctg 120
gtcaaagtcg gacgagacca ggaggctcag tccacgctcg cctggatgag gaaattgccg 180
atcgaacatg atcttgtcca gatggaatat ctcgagatca aagccgaagc cttgtttgag 240
aagagagcct tccccaacac ggcggaaaag ggaatcctga agaaccaatg ggcgcagtat 300
gccaactgct tctccaccat ggacaacttc aagcgggttt gcaccgcctg gctggtgatg 360
ttcttccagc agtggagtgg aattgatgcc agtatgtcgg tcaactctgt gttccttgct 420
ctgagctga 429

<210> 2126
<211> 249
<212> DNA
<213> A.fumigatus

<400> 2126
agactgaaag tgccagtatt cgagcagacc gaggaaaaga atgaggccat gacgcgtgac 60
gtcgaggaga gcgtgaggga gttcactcgc agtctcgaag atagcctcaa ggaagagggt 120
gaaacttcga cacgtgagca tgaacggcgt cgatgggagg atgctttggg ggtcgaggac 180
gtcattcggg acttcatcta cgacctgcaa cgaggcagcc gaacggcaca catccgtaag 240
gaagagtaa 249

<210> 2127
<211> 447
<212> DNA
<213> A.fumigatus

<400> 2127
gacccacacc ctaccatttt tgcttcaagg tacatttggc taacgatgct ctcactcgcc 60
tgcagaatgg aagctcagaa gcgtgaggag gaactcctca aggagaaaga ggcgcaagaa 120
gctcgtctcc gtgcactgga ggagcaagtc aggcaaggca agatccggaa gcaagaggag 180
aaacgtcgca aagaagaagc cgaacggttg gccaaggaaa aggaagccgc acttgcagct 240
cagcgcgctg agatcgagag ggccaaggaa cgagagcggc agcttcaact agaattggaa 300
cgtctcgatg aggagagctc atctgatgat gaagggccag tgaacatcac gcctgaggac 360
agcacaccga cccagagcca attactcccc acagtgaccc ctccggcccc tgttttctac 420
cccaggggcc ccgaagtaac cgcgcaa 447

<210> 2128
<211> 213
<212> DNA
<213> A.fumigatus

<400> 2128
gaccgtcccc ggcgacctcc gcggcaaata cgacgtagtc cacctccgcc tgttagtcct 60
cgtcgtgcag aacagcgacc ctctcccgat catcaaccag gcgtaccagc tgctcaagcc 120
gggcggctac atccagtggg acgacctgaa ctaccccgac ggcgcggtcg tcaaggccaa 180
tgccctgcgc gacgtggcca ctcccgctca tga 213

<210> 2129
<211> 729
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (178)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2129
gagtccactc ccgtccgcat cgcggatctg gccacgggca cagcgatctg gcttttggac 60
ctcttccgag atcctgcagt ggcacggtac aagtccatcc gactggatgg ctttgacatc 120
gatctggcaa acgcccttct tcccgaatgg cttcccacgc cgattacgct ccgccagntg 180
agcctctttg agaccgtccc cggcgacctc cgcggcaaat acgacgtagt ccacctccgc 240
ctgttagtcc tcgtcgtgca gaacagcgac cctctcccga tcatcaacca ggcgtaccag 300
ctgctcaagc cgggcggcta catccagtgg gacgacctga actaccccga cggcgcggtc 360
gtcaaggcca atgccctgcg cgacgtggcc actcccgctc atgatgcgtt tctgcgattt 420
gcacggtcca atgggcgcaa tgactgggtc ctcgatcttc cgcatcatct gatgtcgcgc 480
catggtgggt ttgaggatgc gcatatatgc aactacacgg accgcgtgga gttgcgcaag 540
gcaaacggcg accaatacat tctggtcatg gaggagtttt cagctcgcct gaaacgtgca 600
ggcaaaatgg aagacgcgca taatattgat ttgatgataa ggggattggc ggaggagtca 660
cggcgggggg tgggcttgtc catgccgaaa gctgtgtgtg ttgctcggaa gaagggtgat 720
cgagcctag 729

<210> 2130
<211> 993
<212> DNA
<213> A.fumigatus

<400> 2130
gccggcattc cgatttttat tcggctggaa gtgcccaatt ccattgcagc atttcccaga 60
agcgtcgaaa atggggcgat ccctcaacta ggaggcagtc tctccttgaa cggccgagac 120
tccaaattcc acatcacgga ctatgatgtg ggtggattca atctcatcta ctcttctgca 180

gaagtcttca cttgggcgaa gggagacaac aagaagcgcg ttctcgtgct atatggagga 240
gcaggggaac tacatgagtt cgcgctgccc aaacatcttc cgcggccaac cgttgttgag 300
gggtcctacg tcaagattgc caaacaggga agtgcctggg tcgtacagtg ggaggtagct 360
gctcaaagac gggatttacg tgcaggaaag cttgagatcc acctcctctg gcgtaacgac 420
gcctaccagc actgggtctt ggaactacca gcaaaacaac ccattgctaa ctatagctcg 480
ccatccaaag agacggtgat tgtgaaggga ggatatttgc ttcgaagcgc gtggattact 540
gacaatgacc tgcatttgac tggtgatgtg aacgtaacaa ctcccttgga ggtgatttcg 600
gcgccgaagc gatttgatgg gattgtcttc aacggccagt ccttgaaatc aacacgatct 660
aagattggca atctcgctgc aacagttcac tatcaaccac cagctatctc tctgccagat 720
ctaaagcgtc ttgactggaa atacatcgat tctctcccag agatctccac ggaatataac 780
gacgagggct ggacaccact gacgaacaca tacaccagta acaccagaga gttcactggc 840
cctacatgtc tgtacgccga tgactacggc tatcacgggg gctcactgat ctaccggggc 900
cacttcacgg ccaacggaga cgagtcatgg gttttcctca acacctctgg cggtgtatgc 960
ttcgccaatt cggtatggct aaaccaaaca ttc 993

<210> 2131
<211> 480
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (420)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2131
gtgatcttta caataatgaa cgtctgtgga gcaaatgcta acctttgcat agtccctggt 60
attggccaca gagtcaagtc ccggaacaac cccgatctgc gtgtcgagtt ggtcaaggag 120
ttcgctaaga agcacttccc cagcaccaag cttctcgact atgccatcgc tgttgaaact 180
gtcaccacct ccaagaatga caacctcatt ctgaacgtcg atggttgcgt tgctgtctgt 240
ttcgttgact tgatgcgcaa ctgcggtgct ttctcgcccg aggaagttga agactacatg 300
aagatgggag ttctcaacgg tctcttcgtc cttggccgca gcattggtct cattgctcac 360
tacttcgacc agaagagact gcgcactggt ctctacagac acccttggga tgatatcacn 420
tacctgctcc ccactctgca gaagggtggt gccgagggtc gtgttgaggt taacatttaa 480

<210> 2132
<211> 249
<212> DNA
<213> A.fumigatus

<400> 2132
cgcggttctt tccagccccg tggtgaagac cacggtccgg ccgtgtctgg tgccatgaac 60
accattatca ctacgcgtgc cggcaaggat ctgatcagcg ccctggtctc tggtctcctg 120
accatcggat ctcgctttgg tggtgctctt gacggtgctg ctgaggagtt taccaaggcc 180
ttcgacaagg gcatgagccc ccgtgacttt gttgacacta tgagaaagga gaacaagctg 240
agtaagtga 249

<210> 2133
<211> 312
<212> DNA
<213> A.fumigatus

<400> 2133
tgggtccgag ctccgtccgc tatcataagt ttatcaagat tgcgactcaa aaatgacgag 60
atatcctata ccaatttaa atctcaagac tcctcgacat tcgagctcag cataagaacc 120
gtcttccaat taccgcaacg aaagaaaaat acgctttctc gaagacttgg atatccaagg 180

gactttaata acgcatacca acttggtccc gcttcaaaaa tcgttacctc ctcatcgaag 240
tcctctaacc attatcgttc ctcttggccc acctcctcaa caaacaaaaa gaaattggcc 300
ttcgcaggct ga 312

<210> 2134
<211> 675
<212> DNA
<213> A.fumigatus

<400> 2134
gtcaggatac ctagagcaat tagatatgat tcgaacgtga aagaaaaggc aggccctacc 60
cttaagaggc ccatgagcag cctccttgat cgccgccacg atctcctcat aggtcgcact 120
cttctcaatc cggcacgtca aatcaatgac ggagacatcc gaggttggca cccgcatagc 180
catgccagtg accttaccct gcagctccgg gatcacctta ccaaccgcct tcgcggcacc 240
agtactgctg ggtatgatat tctccgcggg tgcacgccca cccctccagt ccttggacga 300
aggcccatca accagcttct gcgtcgcggt gtacgcatgg atagcagtca tacgcccctc 360
cacgaagccg aacttctcat cgacaacctt gaccaaggga gcgatagcgt tcgtggtgca 420
cgatgcgttg gacaccacgt ccgccgtgcc gtcgtatttc tcctcgttga cccccatcac 480
gtacatcggg gcatcagcgg acggagccga gctgacgact tttttggctc cgccgcgaag 540
atgtgctttg gctttgtcga ccgtcgtgaa gacgccggtg gactcgatga tgtactcggc 600
tccagtttcg tgccagggaa tgcgggcggg gtctttcatc ggcgtagaac ttcaccttgc 660
gcccttggat ggtga 675

<210> 2135
<211> 654
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (577),(630),(633)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2135
gtcgcactct tctcaatccg gcacgtcaaa tcaatgacgg agacatccga ggttggcacc 60
cgcatagcca tgccagtgac cttaccctgc agctccggga tcaccttacc aaccgccttc 120
gcggcaccag tactgctggg tatgatattc tccgcgggtg cacgcccacc cctccagtcc 180
ttggacgaag gcccatcaac cagcttctgc gtcgcggtgt acgcatggat agcagtcata 240
cgcccctcca cgaagccgaa cttctcatcg acaaccttga ccaagggagc gatagcgttc 300
gtggtgcacg atgcgttgga caccacgtcc gccgtgccgt cgtatttctc ctcgttgacc 360
cccatcacgt acatcggggc atcagcggac ggagccgagc tgacgacttt tttggctccg 420
ccgcgaagat gtgctttggc tttgtcgacc gtcgtgaaga cgccggtgga ctcgatgatg 480
tactcggctc cagtttcgtg ccagggaatg cgggcggggt ctttcatcgg cgtagaactt 540
caccttgcgc ccttggatgg tgagagagcc ttcgtcntgg gagatttcgt gctcgaagcg 600
gccgtgggtg gactcctatt tgagcatgtn tanagcgccg cagcggtgag cgtg 654

<210> 2136
<211> 330
<212> DNA
<213> A.fumigatus

<400> 2136
cgtgccggat tgagaagagt gcgacctatg aggagatcgt ggcggcgatc aaggaggctg 60
ctcatgggcc tcttaagggt agggcctgcc ttttctttca cgttcgaatc atatctaatt 120
gctctaggta tcctgaccta taccgaggat gatattgtat ccaaggacat aatcggaaac 180
ccacactcgt ccatcttcga tatcaaggct ggtatctcgc tgaatgccaa tttcgtgaag 240

ttggtgagct ggtacgacaa tgagtgggga tatagtcgtc gagtgctgga tctggtggcc 300
catatcgcca gtgtcgatgc tcgagagtga 330

<210> 2137
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (39)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2137
gagtccaccc acggccgctt cgagcacgaa atctcccang acgaaggctc tctcaccatc 60
caagggcgca aggtgaagtt ctacgccgat gaaagacccc gcccgcattc cctggcacga 120
aactggagcc gagtacatca tcgagtccac cggcgtcttc acgacggtcg acaaagccaa 180
agcacatctt cgcggcggag ccaaaaaagt cgtcagctcg gctccgtccg ctga 234

<210> 2138
<211> 666
<212> DNA
<213> A.fumigatus

<400> 2138
agttctacgc cgatgaaaga ccccgcccgc attccctggc acgaaactgg agccgagtac 60
atcatcgagt ccaccggcgt cttcacgacg gtcgacaaag ccaaagcaca tcttcgcggc 120
ggagccaaaa aagtcgtcag ctcggctccg tccgctgatg ccccgatgta cgtgatgggg 180
gtcaacgagg agaaatacga cggcacggcg gacgtggtgt ccaacgcatc gtgcaccacg 240
aacgctatcg ctcccttggt caaggttgtc gatgagaagt tcggcttcgt ggaggggcgt 300
atgactgcta tccatgcgta caccgcgacg cagaagctgg ttgatgggcc ttcgtccaag 360
gactggaggg gtgggcgtgc acccgcggag aatatcatac ccagcagtac tggtgccgcg 420
aaggcggttg gtaaggtgat cccggagctg cagggtaagg tcactggcat ggctatgcgg 480
gtgccaacct cggatgtctc cgtcattgat ttgacgtgcc ggattgagaa gagtgcgacc 540
tatgaggaga tcgtggcggc gatcaaggag gctgctcatg ggcctcttaa gggtagggcc 600
tgccttttct ttcacgttcg aatcatatct aattgctcta ggtatcctga cctataccga 660
ggatga 666

<210> 2139
<211> 666
<212> DNA
<213> A.fumigatus

<400> 2139
tttgcgctaa tcgcggcatc cttccagccc cgtggtgaag atctccagcc tctgaaaata 60
tacaagatgg ccaccgcaga gaaaacaaaa gaacagcaaa aagagcccat cctccagcaa 120
gacgattatt cagatgacta ctcggacgac tactccgacg aagactacga aaccgatgac 180
tacgaggtct ccggtgatga agcagaagca gaggatccca agaatcaggt gaaacatcgt 240
cagcgccaac aacaacaaca acaacgaagc agacaaccag acgccgtaga agaagcagat 300
gacgaggact actccgacga agatgactat tactctgatg aatacgatga cgaggatgaa 360
gactacgaca accaagtcgc ctctggcaag gcaatgcagc cataccaacc tgccggcggc 420
aaccagtccc tctctcagaa cggatcaatg aacgtgatac cgcaggagaa gcaggggtcg 480
agtctggacg acgaagaagg gatgaagctc aagttggagc tgaatctcga gatcgaggtc 540
gagctcaagg ctcatatcca cggtgatctg actctggctt tgatgtatgt tactcccttg 600
ttgccacctg acattccgtt cacccgctca attcgaatag gagttgaccc tcgatgcagt 660
gcataa 666

<210> 2140
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2140
ccgttggcca agaacattct ttcagatatt aagtggagcc caaatacagt acctcctcag 60
tacacggatc atgccgacca gttcatcgaa aagggaccca gtttacggct caaaatcctc 120
ggtgtcaagc ctgacgtagc tgccatcaat gctattggaa ccatcaaaga agattatctt 180
gggtga 186

<210> 2141
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2141
gtacaccaca acctctacat cgtcaagcac cgccagtcaa agtcatatca ctttcatccc 60
cgtaaactaa acacctgtac aaaattgccc atcgagaaca actcgaacgc cccgccctgc 120
cctccacaac cacaatctcc acccagcacc aaccctaaga ctccctgcac cactgccaca 180
gatactgcaa ggccgtcacc ccaataa 207

<210> 2142
<211> 288
<212> DNA
<213> A.fumigatus

<400> 2142
gaaatgtgct gttggcttgg aaacaagaac aaccacagac atctcagtcc ccttatatgc 60
tattttctcc tatacatctt cagcaaccaa cagactctaa tccaccttca cgaccatgac 120
aacacagcca ctggctacaa atgcactgac tgtgccacag cacagtatgc gtctcaaaat 180
atccaaagcc aatggtgctt aacctcatgt ggaaaggcac caaggcatcc aagtttgaaa 240
ccctgctcgt taaaatggac aagccaatgt ttttgggcca aaagttaa 288

<210> 2143
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2143
gcgcgggacc cgccagctcc cgtggtgaag actttcaact cgacactgaa gaattactct 60
gttccctctt gtttccatgg accgacatgc gtagccttca tctatgctca actggtgggg 120
tgccaggatc aggccgtcag ctataaagat ggacgtcaaa acggtcaaat attatatggt 180
agctccattc tgtttatttg ttatatcacc tggtag 216

<210> 2144
<211> 273
<212> DNA
<213> A.fumigatus

<400> 2144
ataaccaaag acatgctact atttaatagg gctacttatt tatatgacag ggaagatgcc 60
tccccattat attttaagct attattaata aacctacagg cacagccgca catggcatgt 120
ggtcttatac actcaacacc tgcagaagaa aggttttggg ataagattcc tattagactg 180
gctgacccaa cccgcaatat gggtgggttt ggaatgggcc tgacccaact cacttgggta 240

tgggttatta acatcaaacc tatatgggta tag 273

<210> 2145
<211> 363
<212> DNA
<213> A.fumigatus

<400> 2145
ctgttgttta ctgaccgacc tagcgtctcc aatcttggtg gtacattccc tcggtacttt 60
atcctcaaac tcgtcgactt tttcaccgtg gccacatgta ttcccccagc cgtcccgcct 120
gcagctgaga agctgaaggg tgatttggtc acatctgcgt tctcttgcgc cttggagcct 180
gacaagaacc gctgcgtcaa cggcggtgga gtttgcgaaa ctagtcgcga cggctactac 240
atcaccaata ttctgtgtgt gttggttgga acagtcacct ttatcatgtt catccagcct 300
gcggtcctga agctccagag tctgccacta agggcatgga gattgagcaa tggagatcgg 360
tag 363

<210> 2146
<211> 510
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4),(12),(67)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2146
aganagaaga cnagacaagg gagcgggaac agcatcaccg atgtttacca gagtatgtgg 60
gacatcntga aactcaagga catccaaacc atcattgtta ttcatcttat cgccaagatt 120
ggtttccagg ccaatgatgc cgtcaccagc ctgaagctgt tggacaaggg attcggcacg 180
gacaacatgg cgcttgtcgt cctgatcgac tttccttttg agattggtct tggctactat 240
gctggaaaat ggtcgacaga atatactccc atgcggctgt ggtgctgggc gtttattgga 300
cgactggctg cagccgtcct ggctcaagct accgttatga tctacccatc cagcgaggcc 360
gttcctttct ggtacattct ggttgtgatt ggggagcacg tattgtcgac attcatgaat 420
acagtcatgt tcgttgcagt atctgctttc catgctcgca ttgccgatcc cgctattggc 480
ggaacgtaca tgactatgtt ggcaacgtag 510

<210> 2147
<211> 510
<212> DNA
<213> A.fumigatus

<400> 2147
gagatttgcc aaaccccagg tcatctcatc atccttgcaa ttaccactcc tcgctatgga 60
cgcttcgatg aaccgctaag gtgccaattg tatgcgccct ctttcccccc ctcttttgca 120
ggccctttgt ctctccatgc aacgtcctct gtcagacacg agaaaaaaga aaagaaagaa 180
aaagaaaaga aaagaaaaga aaagaaaaaa aggaaacaga aaagaaagaa agaaagaaag 240
aaagaaagaa agaaagaaag aaagaaagag agggaccaaa agaaatatcg atatagtctg 300
cgaaactgtt tcaagcacct gagcccgatt catccgacaa taaaccggca aatcatgagg 360
aatggccttg gccaagcgag atctcagacg tctcgtctcc ctctttgctc aagtgcttcg 420
atggacagtt cgtccggaca tcgccggatc ctccagcttg tattgacctg tcacttctca 480
ctcgccgtgc aatttacgac agccagctga 510

<210> 2148
<211> 1590
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (147)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2148
aggattaaga attttcataa ctttttcagg aattcgtttc attattccag gctttttatt 60
gaaggccaac gcctggttga ctccttttcc ctaaaaaatg caacgtttct cagtcaatcc 120
atctatctca cagtagatgt accccgncgg ttatacccaa tgatatgctt tcaaggccag 180
acaggttcag acttctcttc gttggatata gtccagctag tggcgagctc cacatgctcg 240
gttcttgttc ctgttctctc tccaaccttg aacacatcgg ttaagggtgc atatcaccct 300
cgagatacat gttcgcctct cgccagatgg tggctttata cttgggtcag tccactggtg 360
agagtcggct acgaacggaa cggctccatc aacaaggaag atctctatcc tcagaaaaac 420
gaggcctcgg tagagacttg gcaacaagcc tatgcaagtt gtgactcgga atctttgcct 480
ttcaagtcta ttctctggaa attgtttcga atgaggttag ctacgatggc tctattttca 540
ggcctgtgtg gcttcttcga gcttgtgggg acaatcggcc tgcatcagct tctactttcc 600
cttcaaagtc catctgtagc caggctccaa ccctggttct ccgtcacatt atttgcagta 660
tcgccgatta ttcgtggtct atgcatgcaa acctttgagt attttgctac ccatacaata 720
ggagactgga aggctcttat tgtcgccgct gtatatcgga aaatgatgat tctcgaggca 780
gatgcagaca ttaatattgg gcaattacag agcattatat cagtcgatat tgacaggttg 840
ggtacacttc gatacaccgc gatgacggca ttcatgatcc ccgtcgaatt cgtcacggcc 900
tccattctct tatacagggc tatgggatgg tactatatcc ccagcctgct atttcttctt 960
gtcactagat atcctatttc ccgattcata atatcagaac aaaccaaatc gcagtcagcg 1020
atcgttcagg caaccgataa gcggataaca cgaacaagtg aaagcatacg ggctctacta 1080
atgatcaaga tacttggaaa cgcacagact tttataagaa ggattttgga tgagaggaag 1140
caagagttag acgctatctg gctgaagatg cgtgtcatca ttctctcaga aagcctttcc 1200
tcttcatgct cctttctggc aatggttttc agtctatgcc ttttcatatc cgcaggggaa 1260
aagcctttag cgccggatat tgtctttaca cttgtcgctg tgttcaacat aatcaagagt 1320
atgcttacat taagtgtact tggtgttggg caatacgcgc aagcgatggt gagcttgcaa 1380
cgactaagcg actttatgga ccgaaagact tccccggtgg tcacagacaa aacccagcat 1440
acaatgcagg cacaaagatt agaccagcga gttccctcat cctctacagc gcaggtcctc 1500
ggggagttca gtcacactca agtcaggctt gatgtcaagt ttgccagggg cggactcaat 1560
gtgaccacga tattcaggcc aaggggctgg 1590

<210> 2149
<211> 594
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (109)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2149
tgcagatggc cggatctcct cttcgcgcga atgcaaaaat accgcccaac ctcgtcattc 60
gccttcgtca accaagccgc cggcggcaac cgcatcctcg cagacgggnt aggccccaac 120
gtcctcagcc ggcttgaccg cgatgtcctc gcgcactcgg gcgtgcgata cgccatgatc 180
ttcgaggggg tgaatgacat cggcgtggcg agcgctgacc ccgcagccca gcagcgcatc 240
ggggatgaac tgctggtggc gttcaggcag atcgcgacga gggtgcaggc ggctgggata 300
ccgatcttcg gggcgacgat cacgccgttt gggacgccgg tggggtcgaa ctatacgcag 360
ccgtattcga gcgatgagcg ggagcagacg aggcagcggg tgaatgactt cattcgcagc 420
agtggggttt tcgatgcggt gctggatttt gataaggtat tgagagatcc gagggcgccg 480
ggggtgttgg ctgaggagtt tgattcggga gatcatttgc atccgaatgt taggggggtat 540

caggcgctgg cggatcactt tcccttggag gtttttgatc gctttcattg gtag 594

<210> 2150
<211> 1419
<212> DNA
<213> A.fumigatus

<400> 2150
tgggaggagg atggtatgga atccgtggaa ggagaaatct gcattgttgg cctagttctg 60
gcatgggggt atttccatga tccagagcgc acaaacagcg cttttgtcga atggaacggg 120
gtcagaatct acaaaaccgg ggactatggc aggcggacca agcatgggct acagttttgc 180
ggtcgcaggg acagtgtggt caagaacagg ggcttcctga tcaacctcga agcagatgtc 240
gagcctgctc tactgtccta cgacaaagtt gacagtgcat cagcgttcat gtctcagggg 300
caactcatcg cttttgtcac acctacatct gccaaagagg gactccgcga atatcttgag 360
aatacggtat cgtcgttcct cgtccccgat acgatatatt cgctagacga atttcccaga 420
acaagcaacg gaaaagtcga ccgacgaagc ctaatgcgta tgcatgagct agagcaagga 480
tcagatacgg ccagtcttga gagaggcctt ggtgcagtgg aatccgttcg tcgaggatta 540
tctcatgtcc tccgcctgcc agaatcgcaa attcttccgg cttcgtcttt tcgccatcta 600
ggtggccatt cactagcagc agtcatgtta gtttcggttc tgaggagaat gggcttcggt 660
atcagtgtcg ccgaggtgct tttgttggat acagtcgaaa atatagctgc cgctgtcgtg 720
gagttgagcg atatcccgca tgccctttct gcccaggaag atttgataga acgactaagg 780
cacgatatct caacaacccg gccgcttgat gaaggtgtga caattgcacc tatgaccgac 840
atgcaaacca gattgctcgg tgctagtgtt gctactccag gtctttcatt tatcaagaca 900
tcatttacct tggatcatcc agagaaagaa gaccttacat ctactctccg tgctgcttgg 960
gttcgtcttc atcagacgca cgagatcctg aggactgcat ttgtcttgac tgcatcaaat 1020
ggggcccaaa taatctccca agaaccggac ttttcgtgga aggagaaatt cgtcacagaa 1080
tcggagtggg agtcagtttg tcgacgcgaa gagcatctgg acgtggccga cttccccgac 1140
tttgacgcag agaaccgagc ttcgttgtca agagttgtct tgattatcgc tccgaggaga 1200
cgaacccggt ttgtctggac ggttcatcac agcttgattg acggatggtc gatggcaact 1260
ctgatgcgag atttcgcctc ttgtctcgat ggtaaaccca tcccggcacc accccaattt 1320
gctcaagttg cgcaagcaat aggtcagctt aaggctgagt cctcggatag agccgtttca 1380
ttttgcagag cgtacttaga tgtttacacg acggcctga 1419

<210> 2151
<211> 1164
<212> DNA
<213> A.fumigatus

<400> 2151
tgtcaatatg ttttgcggca caatagcatt ttccaactac catggcagcg catcatcaat 60
gccaccgaag ccgttgccgc atcacacgaa acattcgcgc agaaaattga cgaggacgtg 120
gagcgccctt taagagaata cagcagcaag aaccgagaat tagcatcgat gcctggcatc 180
caaagtgatc tcgccgcttt ggctaagagc ttcgaagcga accagaagaa ggttgagaag 240
gccagggaga aagggccgaa gggggcggag aaactggccg ctgccatttc cgccgcagag 300
gagcttagag aacaatggga ttcaagggca ccgtttgtgt ttgagcaact tcaggcagcg 360
gacgaaggcc gagtaaatca tctccgcgac acgctaactc aattgcaaac gcatgaatcg 420
gaccaggtgg aacggtgtcg ccaggctgcc gagagctgcc taaatgtgct tctcaatgtt 480
gagactgcgg atgagatcaa gacatttgcc gccaaagtta atggaggcag gcctgttgct 540
cccaggaggc aagaatcgat accctctggc gggccaggag cacctcttgc tcctccgcca 600
cgcattcagg acgatgctgc tagtcaacgc tcggagactt cgggccctgt ccggacacct 660
cctggtaagt cttcactcca tcattcacat agaatgtttg ccaaccatgg ctgtgtcgta 720
gctccagagc cccgtaccac tgccctaggt ggactcaagc gactaggaac tgtcatgggc 780
agaaggaaga gtgtagtaca cacccctgga ggatggccac tcttcggata caagaagcat 840
cgcaacccgt ttgcttcatt caagcgggga gattcacgcg agatgcagat acccgaatcc 900
cctacgggta cggatcgtcc cggtaccgct ctgactactc aggatatcca tggcgaatcc 960
gcaccgatcc caagtgagat ccacgagcga gggcttcctg gttcactgcc gacgagccca 1020

aaacctctgc aaacaccagc gaccacgaat gggggagtag ctcaggaggt tcacaatgag 1080
ccgacaccgg ctgctgctgt gactgcgacc gaagtatgtg tggacgacaa tgaacatctg 1140
gattggacta atgatgacgc atag 1164

<210> 2152
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2152
gaaccgttcc gagtcgactc gcggctatgc gtcatcatta gtccaatcca gatgttcatt 60
gtcgtccaca catacttcgg tcgcagtcac agcagcagcc ggtgtcggct cattgtgaac 120
ctcctgagct actcccccat tcgtggtcgc tggtgtttgc agaggttttg ggctcgtcgg 180
cagtga 186

<210> 2153
<211> 213
<212> DNA
<213> A.fumigatus

<400> 2153
gtttatgctg caatgcattc tctattcaag ctgactgttc ccagtgccgg tattgggggt 60
atggctgctg cattggcatt gggccaacga ggacatcgtg tcattgtact cgaatcagcc 120
cccaaagtat gcttcaccaa taacttgaaa actggacaga agtttggcgt gaccttgatt 180
aaccccatga aatccgtgcc cggttatcca agg 213

<210> 2154
<211> 384
<212> DNA
<213> A.fumigatus

<400> 2154
tggcgcaccg gtgagacggt cgcatgcttc gatattatca tgccggaggt cagcgaagtc 60
gcgggcggat cactccgtga acaccgcctg cccaacatca tccagaacat gcgcgatcac 120
gggctgatca agcagcgctt atatcctgcg gctggtgctg gagagacgcc gacgacccag 180
acggcccctg agcagccgtt ataccccccat ctccagccgt atgaggactt ggggcatctg 240
cagtggtacg cggatctgcg acggtggggg agcgcaccgc atggaggatt cgggcttggg 300
ttcgaccggt ttatcagtta tctagctgga gtttcgagtg tgcgggatgt ggtggctttt 360
accccgatac tttggccggg ctga 384

<210> 2155
<211> 885
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (867)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2155
caacacgaat tccacttcca tgacctcttc gatcaccttg atagtagagg atacgttata 60
ctgatccgga tgcgccggca actcaccaag agagcatgtg atgagtgtat atctcgcaag 120
gtgaagtgta acggctcctc gccttgtgat acttgcctga agacgtctaa ggaggcggac 180
tgcacgtacc tcaagccacc aggacggatg ggaccaaaag ccaagcgata taccagcaag 240
agcaggtccg cctgcgatgg atcgattggc catgctcata cggaggaagc tgcggcaaga 300

acccagtcgg tcgagaatcg tccggcaatt cccgctgacg ttcatgctga tactgagcgg 360
gatgagtccc tgtcttcgtg catttccaag acggtactgg tctatattgt gcgcctgtac 420
cagactttct cgtatagtgt ttggccggtg gtcgacgcag atgcggtttt gcaacagttg 480
gggaacggca cctgcgatgc gcagacactt tgcttagtgc tggcgctgtg tgccgcgacg 540
atggcacagt tgcagcttgc tcccatggct ggcgatgatg gtcacatggt ggacagtagc 600
cagctcaaat cggcgtgtat gcagcttcgg gagcggagtg attaccgaga gaacctcgac 660
gtcaagggtg tacttgtttc attctttctg catgtgtatc atgcaaagat taaccaacga 720
aagtcagcta tgctgttcat acaggaggcc atcgcaagcg cgagactatt agggttggac 780
acgaacgaac ggaatgctgt cgttacggat ggtgttgttg caaacaggga gattgtgttt 840
gtgttgctgt gggtgtctga gaggtangtg accgtaaacc tgtaa 885

<210> 2156
<211> 279
<212> DNA
<213> A.fumigatus

<400> 2156
gctcgggctt ggcttgtgct tttgactgtc tccctcctct ccaagtacgg agtagcaatt 60
tcagtagttg gtcaagtgct tactgctgcc attatttgcc cctggtacct gcggcgaccg 120
agccatgtgc agaactgcag aggatgtcat acaagtattt tgactttctc ttttttttctt 180
cctaccgaaa gtttgattct cgaagcattt tatagtatgg aaatcattag acggaaagca 240
ccgccgtgtc ttcaccaagg gggcggcggt ccggagtaa 279

<210> 2157
<211> 504
<212> DNA
<213> A.fumigatus

<400> 2157
ttgcaggacc gccatgttcg catgcgacaa atctacgaga ccatcgatag acaaggatat 60
caatggattg tcgtcttcgt ggccggggtc ggcttctttc tcgatggata tacagtaagt 120
cagcccggat acttacaatg gactcggact cggactcaac ggcgacagct cttcgcgagt 180
aacatggccc tccctatggt cagctacgtc tactggcaaa acaacctctc gtccaagaaa 240
ctcacctaca tcaatatcgc gactctggcc ggcacgctct tcggacaggt cctctttggc 300
tatctggcgg accgcaacgg gcggaagaag atgtacgggg tggagctgat gctgatgatc 360
acgtcaacgc tgggtgtcgt catgtcctcg accggagaga atgggagcat ggatgtgttt 420
gcctggttgg tttggtggag actggtggtg ggagttgggg tcggggcgga ttatcccctc 480
agtgctgtca tcacctcgga gtaa 504

<210> 2158
<211> 342
<212> DNA
<213> A.fumigatus

<400> 2158
tcacgtcaac gctgggtgtc gtcatgtcct cgaccggaga gaatgggagc atggatgtgt 60
ttgcctggtt ggtttggtgg agactggtgg tgggagttgg ggtcggggcg gattatcccc 120
tcagtgctgt catcacctcg gagtaaggct atgcattcgg cctacagaag cccaaggcta 180
ataattggtg ttagattcgc tccggccaag catcgcgccc gcatgatggc cagcgtcttc 240
ttcatgcagc cactgggaca aatcgcggga aacatcgtca ccctgatcgt ggtggccgtc 300
ggcaagaacc agcagcacga cgacgtcatc cgcacgtctt ca 342

<210> 2159
<211> 195
<212> DNA
<213> A.fumigatus

<400> 2159
aagtgcaacg tgcctcaaaa tgatcgcagg atcaagagag cttcaaagag cgttgattgt 60
ccaccacccc cagccaataa gaagatcggc aacggagcgc tggtgggttc aaggaatagt 120
gctacagagt atctagtgtt catggaatcc ttatttattg atcatatcat cagttttgag 180
gcgcacggat attaa 195

<210> 2160
<211> 483
<212> DNA
<213> A.fumigatus

<400> 2160
gtcaagggtc tcttcttcct tggcatgagg gtccgtcact tccatatctt ctcgtccaac 60
agcctcacct tcatcctcgg gggcttcttc gtcttcttca ttctcttctt cctcaccctc 120
ctgctctgca tccttgtcac acttctcctg ggtcctttct tcctgcgctg cggtttgctc 180
atcggattca gctgctccct tgccttgttc gttctctgtc tctttctgct tctcatcatg 240
gtcgccatcc cacatcttct catccactgc ggtgtcgtcg aggtcgttga cgctgcctac 300
ttcctcatcg acatcttttt ttttttccga gccgctggcg tcttcatctt cctcttcgtc 360
ctttgcctcg cgatcaacct cctcgccttg catctcttcg tgatccatgt taactgcctc 420
tgcagaagcc tccatgtcct cagacggctt ctcattctgt tcttgctgag caagctcaga 480
taa 483

<210> 2161
<211> 1059
<212> DNA
<213> A.fumigatus

<400> 2161
gaaggtgttg aggatattag caaagacgtc ggggatgacg aggacttatc tgagcttgct 60
cagcaagaac agaatgagaa gccgtctgag gacatggagg cttctgcaga ggcagttaac 120
atggatcacg aagagatgca aggcgaggag gttgatcgcg aggcaaagga cgaagaggaa 180
gatgaagacg ccagcggctc ggaaaaaaaa aaagatgtcg atgaggaagt aggcagcgtc 240
aacgacctcg acgacaccgc agtggatgag aagatgtggg atggcgacca tgatgagaag 300
cagaaagaga cagagaacga acaaggcaag ggagcagctg aatccgatga gcaaaccgca 360
gcgcaggaag aaaggaccca ggagaagtgt gacaaggatg cagagcagga gggtgaggaa 420
gaagagaatg aagaagacga agaagccccc gaggatgaag gtgaggctgt tggacgagaa 480
gatatggaag tgacggaccc tcatgccaag gaagaagaga cccttgacct acctgaggag 540
atgcaactgg acggcgagga aaaggaagat gacggtgccg aaagtgacga cggcatggac 600
gatatgtcgg atttcggtcc tgcgcctgcg gaggacgagc aacaggctga aggaaacgaa 660
gacaatgctg aaaatccgga tatggatgat ccgactgacg agcaagaacc tgatcgggta 720
gatgaagagg ccatggagga ccaagaagcc aacgaggccg agggagccga tgaagccaat 780
gcagctgagg aggaagaatt ggaggctcgg caagaagagt tcttgactca gcatgatgac 840
aatgaagctg gtggtgagga agttgcccct agcgaagctg ttaacggtgg tctgggcaca 900
gatgaagacc aaaacaaaga gcaaggcgca gccggcaatg ctcaacagga agatggctcc 960
actgatccgg ccacagacgc ggaaaagcca actggcggtg ccaaagaagg agaggacagc 1020
cagcgcaaga aggatgcggg cggtgctgat gacgtgagc 1059

<210> 2162
<211> 240
<212> DNA
<213> A.fumigatus

<400> 2162
tcacttgaat ccaagatgac gctcccctcc aatgtccatg tttcctccca tccctgcctc 60
caggccaagc tctcccagct ccggtcgcat tccacctctc ctcgcgagac tcgcagcctg 120

gtgcatgata ttgcaaccat tttaggggtt gaggcctttg ctgccgggtt gaaggctgcc 180
agtgggggaa aggtggttat tcttcctgat caggagctcc aataccgtaa accaatctaa 240

<210> 2163
<211> 408
<212> DNA
<213> A.fumigatus

<400> 2163
tccgtgtcag agaaaatgac aagctcggta gcaagcgatt accctcaacc aatatcgtcc 60
cctcccccgg tctatcttcg atcatctccc ccgctttcgc cgtctcagag tcaatcaacc 120
cccagatcga taccccaaca gcgcgccaca caacacattg cacggaaggc tttgcctggc 180
tctcaatctg aaaatggata tcctccagtt ccgccagtct atattcacac agacatgaat 240
ttgtcgcaat cgtccaacat gacacacgaa gatactcgaa acggtcatgt cgcgaattct 300
atgcccacca ctgctttagc caatatgtcg cttgaggatc aatcgcagaa tccccagaac 360
agcaatgggc cgtttccacc acgccgagac tcttacgccc ctccacca 408

<210> 2164
<211> 357
<212> DNA
<213> A.fumigatus

<400> 2164
tccgaccatc ttttacgatt actgcatatt cactggacca agtctcgatg ccgtcagatc 60
tctaaggcct ctccatcttc aatcaccctc gctccagatc aatttgacag tcttttgaac 120
agacggcaat acaggaatcc tgtctcctgt cgttgccgcc acttaatccg tgtcagagaa 180
aatgacaagc tcggtagcaa gcgattaccc tcaaccaata tcgtcccctc ccccggtcta 240
tcttcgatca tctcccccgc tttcgccgtc tcagagtcaa tcaacccccа gatcgatacc 300
ccaacagcgc gccacacaac acattgcacg gaaggctttg cctggctctc aatctga 357

<210> 2165
<211> 1122
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1110),(1113)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2165
agacgacggg caaagattga ggcgctgcag aaccgtcgtc tggagggacc cgtcatatct 60
tactggagcg gcatcgctac atgggtcaat ggccgtttga cgcgtgtggg caaggttgac 120
attacaccca aaccagagaa ggaggagact acgcgcaaga agagcaagaa gacggagaag 180
gaagagaaga gtactgcaga gaagcctgct caaaatgctc ttgcagggcc tgctacttcg 240
cagaccgctt ctctaggatc ttctacacct caagaaacac ctgctcaaga agattctgcg 300
aaggcccctc agaaaacaga ggagacaaag tccgttgctc aggagcaaga cacagacaaa 360
gccactacgg catctgagcc tacacaggct acctccgccc cagaaaattc aacaatccca 420
gagggctctg cagcttcagc agaatcttca aatcccgccc caccagttga atcaacgaca 480
atacccagtg aggcaagcac agagaaggtt cctgattcag agctgccaaa aataaaagcg 540
gactcgtcta aagaaccagt taaggtcgaa agtaaaacta ctggtgaggc ccaacaggaa 600
aacgagacgg ctgcagccgg ctcaaaatcg ccgggtgaag aaccgaagga tccgacacag 660
actgcagcgc aagtatcgga agagagaccc acgccgaatg ccgaccagtc gaagccggaa 720
gcgccgctgt ccggagtcca tccggatggt gcttctagaa caacggatgc tgaagcaccc 780
acgaacgaga aaccctcgtc tgaatctaaa gtggctcctc ctgctacttc tccgccagct 840
acccaaattc ctatcgccga gcctacgcag ataggccagc aagaggaacc aaaagtgtcg 900

gcatcgaccg agcagaagca agtagcgccg gaaatacatg cggatcagcc tgacttctca 960
agtgacggcg caccacaacc ccaaatccct gctccacctc cggtggtcga gcaaacggga 1020
cgatgtctga cgattctcga gaactttgat gaggagactg cacagagccg cgagtgtctt 1080
caccaagggc ccgaaggacc gcgcatgcgn tangaaaggg ca 1122

<210> 2166
<211> 426
<212> DNA
<213> A.fumigatus

<400> 2166
tactattatc gattactcca agaaagaaac cccaccttga tcatgtcgcg tccttttccc 60
tatacctata tttcctgtcc atgtgcggat acccctgttc ctgatcgttc cagaaaacga 120
agatcgcgag agtcccccgc caaaaagcca gaacagggag accgttcaac agctgcggat 180
accgaagagg aggaggagca gacattcgac cctcgagctc cgcgttccaa cttctctctg 240
taccccccgg aacagctgct gtactgtgag gactgccatc agataaagtg tccgcgatgc 300
atcacagagg agattgtgtg ctggtattgt ccgaattgtc tgttcgagac gccgagcagc 360
atggtccgaa gtgagggtaa taggtgggta ccattaggtt ctgtttcgca agtagttccc 420
cgctga 426

<210> 2167
<211> 696
<212> DNA
<213> A.fumigatus

<400> 2167
caccccccgcg gatccttcca gcccgtggtg aagacgaaac aaaaatcaat caaggatcaa 60
tccgtcgaga tagccgcttc ggcaggcatc tcaaccgaat ccctcgcgtc agtcatttcg 120
ttattctcct ccactctgtg ctgttcttct ccctcggact gttgctcgtg ctcgcgcgca 180
gcacgctcac gttcctcctc ctcctcctgc tccaccttct cctcctcttc ttcccagtta 240
tccgcaacct cagccgcagg cggcgtggag agattcttct tcgcggctcc tacgccggac 300
cgaagaacaa gcttctcttt cctaggaaga ccccagctcc cgctgtcact gccagcaagg 360
gccgcgaact tcgagccgga ccacgggcta ggactcgcaa cgggcgtcgt gcttcgtgtc 420
gagcttacgc cgttgctccg acgggacgcg gcgacctggg cccagccgct gtcgccggcg 480
gtatcggcgg actgctgcgc tttggcagct tccttgagtg ccttggcttc ggcggcggcg 540
aggcgttgcg cttcgcgctc tttaagacgt tggcgttcgc ggagcttgac gcattcgccg 600
acactcttgc cgccgatgcc tatcgagttc tcgggaccga ccccgaggag tggtggggtc 660
caggtggtgg gcttcaggac gaagacgtgg cggtga 696

<210> 2168
<211> 900
<212> DNA
<213> A.fumigatus

<400> 2168
agaccgacca ccacagctgc ttcgaatctc tctcccagca cccttcctta ttcaacagag 60
accctggact tgtatgtcca gctttcttcc acttcccccc tctccacgct acagacgtac 120
gaatcgaccc tccattccct agcaatcagc accactcagc gatccgtacg cttccagccc 180
gccaaatccc cactccgtgc attcatccac tctctcgccg ccgactgggg cttcgccagc 240
gagagcttcg acccagaacc tcaccgccac gtcttcgtcc tgaagcccac cacctggacc 300
ccaccactcc tcggggtcgg tcccgagaac tcgataggca tcggcggcaa gagtgtcggc 360
gaatgcgtca agctccgcga acgccaacgt cttaaagagc gcgaagcgca acgcctcgcc 420
gccgccgaag ccaaggcact caaggaagct gccaaagcgc agcagtccgc cgataccgcc 480
ggcgacagcg gctgggccca ggtcgccgcg tcccgtcgga gcaacggcgt aagctcgaca 540
cgaagcacga cgcccgttgc gagtcctagc ccgtggtccg gctcgaagtt cgcggccctt 600
gctggcagtg acagcgggag ctggggtctt cctaggaaag agaagcttgt tcttcggtcc 660

ggcgtaggag ccgcgaagaa gaatctctcc acgccgcctg cggctgaggt tgcggataac 720
tgggaagaag aggaggagaa ggtggagcag gaggaggagg aggaacgtga gcgtgctgcg 780
cgcgagcacg agcaacagtc cgagggagaa gaacagcaca gagtggagga gaataacgaa 840
atgactgacg cgagggattc ggttgagatg cctgccgaag cggctatctc gacggattga 900

<210> 2169
<211> 1086
<212> DNA
<213> A.fumigatus

<400> 2169
aaatatccct ttccccagat tttttccggg tccatgggcc ccggccaatt gcgcatgaat 60
tggaattttg gaaaaagttc caaaaatagg gccgtttttc tgaagcggtt tttccatgca 120
agtagctttc cttcgttgtg tcgccatatg gtgaaaaagg ttcctcccaa gttcaccacc 180
tgctggttca taggggcttc cgaagtcgaa gttccatcgc aaatgacccg ttcgaattcc 240
tccttctcct tgattggact tgatgcttcc atcgcaaatg cttcccgtcg gattctgatg 300
gctgaagtac caaccttggc catcgagtat gtgttcgttc acaacaacac ttccgttata 360
caggacgaag ttctcgcttc gcgattgggt ctgatcccgt tgaaaggctc agtagagggt 420
ctcaactgga tgcgctggtt taagaagccc acagaggacg atccggaatc tggcagtacc 480
cctgcggact acaacaccat cgttttacgc ttggatgttg agtgtaccga gaaccccaat 540
gctgccccgg gcgaggatga ccctcgcaaa ctttacaaga acgcgcatgt gtatgccaag 600
gatatcacct tccaccccgt cggacgtcag gaacaattct tcactggcga cggtgcagtt 660
cagcccgtca atccagatat tctgatcgcc aagctacgtc caggacagaa gatcgatatg 720
gagttgcact gcatcaaagg catcggagct gatcatgcca aattctcgcc cgtggctacc 780
gcaacatacc gcctcatgcc agacatcaag attctccgcc ctatcatcgg tgaagacgcc 840
aagaaattcg ccaaatgctt ccccaaggga gttattgagc tggagcccgt tacgtcgagg 900
gaagctgcgc agaaaggaag cgaatatgag ggtcgtgcag gcgagatgaa ggccgtcgtt 960
cgtgaccctt tcaaggatac cgtcagcaga gagtgcctgc gacacgaaga attccaaggc 1020
aaggtgaagc tgggccgcat tcgcgatcat ttcatgttca acgttgagag cactgtttca 1080
gtttga 1086

<210> 2170
<211> 423
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2),(127)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2170
antacaatcc catggaccac aacccgggga ttctggccgg ttgattttgc ctcggggatt 60
gtggatggca agacgattgc gcggtcgggc aacaaggcta ttgctgatac ggggacgccg 120
ctagcgntgg ttgatgatga gacgtgtcag gcaatttatg atgctattcc tggggcgcat 180
tacgacgacg agagtcaggg gtatattttc ccgtccacca cgacagcgga caaacttcct 240
gtcgtctcgc ttgctgtggg agacaaacaa ttcgtcgtgc aaagggagga tctgggcttc 300
gccgaggcca agtcggggta tgtctatgga ggcatccaaa gcagaggcag catggccatg 360
gatatccttg ggagcacatt cctcaaggga atctacccag tgcgtctttc tgatcattgt 420
tga 423

<210> 2171
<211> 612
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (507),(573)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2171
aagtctgaaa cattctgctt ctgtctcagt agactccaac cgacagatat aaatctcgga 60
acagtaccat ggagtgcatc ttcttatcat catcaaccac ctctcctcaa catctcttct 120
ttctcactcc ttgcaaacta ctgctataaa tcccttgcta caattgttac gagatctaca 180
atggctcgtc aataccctgc ccttttgcac caaagaatgc taactcatat ccagcatctc 240
ccgcttgagc tgcgcgagaa actcgcactc ctccccgagt ctccctcgcg tgaagagatc 300
tatgtcctgt ggacgcacct cctacagagg tatttcccct tccgtctcca tggctccctc 360
cccaacctgg tcgatcttcc tgacgagacc gcggtgaagt acgctctagg ctatcaccag 420
gaatccgaga gctcacatat cgccctcgcc gtcggccgtg attacggtcc gttcgaccgg 480
ctcagtttcc ttcacgtctc ctgccangcg gagaagaaag agaaatggca cctggaagag 540
atgcaggaca agtggaagga cgagatgatg aanttctctc attgtgaaaa tgcaccgggg 600
gcgcgggaat ga 612

<210> 2172
<211> 663
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (94)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2172
ggcatcttct tcctgttgga aaaaggagtg gacgcctggc atacattcgc aatcccccgc 60
ctgggaatcc cctcaatccg cacaccgacg ggcnccaacg gcgcccgcgg cacacgctac 120
ttaacgggcg ttccctctgc ctgtctcccc tgcgggaccg cactcggcgc aaccttcgac 180
agggacctga ttttctccct gggccagctc ctcgctgccg agtgcagagc caaaggcgca 240
cacgtcctcc tcggcccgac catcaatatc cagcggggtc ccctgggcgg gcgcgggttc 300
gagtcgttct ccgaggaccc ggtcctctcg gggctcgcgg cggcgagcta ttgctctggt 360
gtccaggatg gcggggttgt gccgacgctg aagcatctgg tgtgcaatga ccaggagcat 420
gagcgtgtgg cggtcagtgc gctggtgacg ccgcgtgcac tgcgggagat ttacctgctg 480
ccgttccagc ttgcgatcca gggcgcgagg ccgggggctg tgatgacttc gtataacaag 540
gttaacgggc tgcatgcgag cgagaatccg ggattgatac gggatattct gcgcggggag 600
tgggggtatg agggggctgt gatcagtgac tggtttgttc gcctgtttac catgatgctt 660
tga 663

<210> 2173
<211> 348
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (342)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2173
caaaagccgc aaatgttgac tacaatcatt ttatacggac gaccgacccg gcgcacaagg 60
aagctgttca atacttctgg gttcgttgga aatgctgcta gctatttggc ccgcatgctg 120
acaatgggaa aggaaatgct gaaccaccgg ggctatattt acactgcaaa gcacgaggga 180

tgtattctgt ccagcgacga aacgttctat cctcctacac aagtgcagaa ctccttagaa 240
ccctctactg gaaggaagaa tatggtattt ggtcctagaa accgaatgtt atcaggtggt 300
acaatcgctc actatgctag gtttcagttg aaaagggaaa anaagtaa 348

<210> 2174
<211> 402
<212> DNA
<213> A.fumigatus

<400> 2174
caaggtaatc agggcttgat tggttcgctg cggtttagcc tatggatccc agtgagccag 60
tattcttaca tggagctatc gacggctgcc tttgaacacg tgcacggtct cagtctcgat 120
ttccacttgg gaaagaagac cggtgaggtg ctgtctgccc tgagcaaagg cagctctatc 180
aataccttcc tggaacaggt tacgtttcag gttgtgccaa tgctggtaga tctctgtgtc 240
gccatcggat acttgcttat cgcccttgac gcttattatg cactcgttgt tactatcgtc 300
acctttttgct acctttatgt tactgtacgc atggcccagt ggagagcaga gatcagacgg 360
cagatggtca acgcgtcgag gcaagaggat gccgtgaagt aa 402

<210> 2175
<211> 918
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (858)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2175
aggttgacat ggtggatcag gaacgattct atggtctcat atgagactgt caagtacttc 60
aacgcagagg agtacgaatt taacagatat cgaggcgccg tttcggacta tcaaaaagcc 120
gaataccatg ttctcttctc tttgaccctg atgaatacct cccaaaatac cgttttcatg 180
ctgggtttac tgatcgcatg tttcattgcc gcctatcaag tctctctcgg ccagcgtgat 240
gtcggccaat ttgtctccct tctcacgtac atggcacagc ttcaaggacc actcaatttt 300
ttcggcacct tttaccgttc gatccagtcg gccttgataa actcggaacg aatgctagaa 360
ttattcaggg agcagcccac tgtggttgat aagcctggcg caatgcctct ggccgtatgc 420
aaaggtgaca tcaagttcga ggacgttgag ttcgcgtacg atacccgcaa gcctgctcta 480
aatggcctta cgttccattg cgaaccgggc acgagcacag cacttgttgg cgagtcaggc 540
ggtggcaagt caaccgtttt tcgtctcctg ttccgattct acaatgcgag gaatggacac 600
atccggatcg acggacacga cgtggaggac attacgattg actcgctccg aagacacatc 660
ggcgttgtgc cgcaagacac ggttcttttc aacgaaacgt tgatgtacaa cctgaaatat 720
gccaaccaga acgctacgga tgaagaagtt tacgaagctt gccgtgctgc cagcattcat 780
gataaaatca tgtccttccc tgatggctac aacaccaagg tgggcgagcg tggtctccga 840
ctcagtggaa gagagaanca acgggtggcg attgctcgaa acatcttaaa agacccccgg 900
aatcatcctc ttggatga 918

<210> 2176
<211> 450
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (318)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2176
acaagggcag ttaattatct gacgatgttg ctaatctggt ctacgtctac agctgcacaa 60
ctggccgagt acgaaaaaga agtgcgccgt ctccgatcgc aaaccaacac acacacaccc 120
cggacgggct ccgcatcgtc cacattatcc actccgtcga atgagagcga gcattcgcga 180
tcctcgccgc cgcaggccca gcaacaaagt cgcctatcga cgctgacgtc gcttcttcct 240
taccgtcgtc cgagcaccgc atctccgacc cagaccatgg cccagccagc acaaccggtc 300
ccttctcctg atcaggtnac aacagagctt cagactgcgc tcgagcgaga acagagctta 360
cgcaaggcgg cggagaagca gctcacccat gccagttcgg aactggagga actaacaccg 420
caactgttca gtccagcgaa cgagatggtc 450

<210> 2177
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(123),(150),(151),(152),(153),(154),(156),(157),(160),(161),(162),(163),(164),(
165),(238)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2177
gaaatccata ttattgtaaa ctacggaatt agtccgtcgt tagtatcagg agtggatgta 60
tcagaaaccc ccttctgtgc tgaaaagctt aaagctcctg ctttttttctt tgtttggggg 120
aanaagacga ttatccgggg agagtttgan nnnntnnttn nnnnnaggga ggttaaaggt 180
cattgcttcc gggaccgtgt accaaagaac ctcccccgaa gatattggaa ttttgacnaa 240
atttga 246

<210> 2178
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(24),(97),(98),(99),(100),(101),(102),(105),(106),(108),(109),(110),(111),(112)
,(139)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2178
aaaggtgtgc tcaactcaaa tttngtcaaa attccaatat cttcggggga ggttctttgg 60
tacacggtcc cggaagcaat gacctttaac ctccctnnnn nnaannannn nntcaaactc 120
tccccggata atcgtcttnt tcccccaaac aaagaaaaaa gcaggagctt taagcttttc 180
agcacagaag ggggtttctg a 201

<210> 2179
<211> 303
<212> DNA
<213> A.fumigatus

<400> 2179
ttcgcagagt caattgcgat cattgctgtt tacaacttga ctgttgtcga tcacgggata 60
actgccctca gaccgacttc ctcgaatgtc gaagacacga gcttgaaaga agaagaaaaa 120
aaaaatcccc gttctcgagg ttacgttatt agcatcctct cagttccagg ccctacgcag 180

gtctcccctg gcattgttga cggttctcca tactatgcgt ttggtggctt cgactatgtt 240
gagtttctcc ctacaaatgg agtgtcccac tacagcgttt ttaacaaagc cgagaagacc 300
gac 303

<210> 2180
<211> 333
<212> DNA
<213> A.fumigatus

<400> 2180
accaacaagg gcgatgcggc gggaatcaga cgaccggaag cgcagagaac gggaactgcc 60
gcgaacccta ccatgtaccc aaccagcccc atgacgatgg acaagccatt gaaagcaata 120
ctccactgca gaggtcgggg aatgccgtgg tttgaggaga acaacacgga tggctgttgg 180
gagtggccaa tctgccatcg gtttcgctgt gcgatatgtc cctccagcga cgacggtacc 240
aaccccaact gcaacggttc cagcacctgc atcgtgcgat accctaaggc cctgcaacat 300
tccaacgaga gctgcccaat tcttcccgaa taa 333

<210> 2181
<211> 843
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (19),(252)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2181
gattgggccc ggaccaagng atattccggg ggccagccca gcatggtggg cccgtgggag 60
tccagagaaa gattccctga tctggcgcgg gcatcgcatc gggcggttgc aacccgagcc 120
accaactgga cgggggtccc agcgccatcg cctattagcc atgttgaacg gaccttcgtt 180
tcgcggccgc cgaacggaac cattccccaa tttggtgaat ttccggctcc ccagttaagg 240
aggagtacca cntggccgcg ggccaacacc gggccgcttc ccggagttgg ttggaggacc 300
atgcggacgc tggcttcatc cacttcgtgt gcttcccctg cgtcccggga cagccctggg 360
ggtacgatcg caccgacccg caatggggcc tacacggaac catacttcgc cttgttcccc 420
gccatgccca tggaccagca gtacgacggc tacaaatacc tgccggacat cgacggcaac 480
tcctttagcg gccggtaccg cggcttctta ttgtcgacgt ctctgcccat caaagccacc 540
atctacgacg aatggcatga ctcccgtctc atcccctggg cccatttcgt gcccatggac 600
tcgacgttcc ccgacgtata cggcctcatg gagtacttta tcgggtacgg cgggcggggc 660
catgacgagg ccgcgcgcac gattgccctg gacggcaagg cgtgggcgga gaaggtgctt 720
cgccgggaag acatgcagat ctacatgtat cggttgttgc tggagtatgc ccggatctgt 780
gatgatcgcc gggatactct ggggtatacc gcggatatct tacgagtcgg gcaacggaca 840
tga 843

<210> 2182
<211> 609
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2182
ggaggagtac cacntggccg cgggccaaca ccgggccgct tcccggagtt ggttggagga 60

ccatgcggac gctggcttca tccacttcgt gtgcttcccc tgcgtcccgg gacagccctg 120
ggggtacgat cgcaccgacc cgcaatgggg cctacacgga accatacttc gccttgttcc 180
ccgccatgcc catggaccag cagtacgacg gctacaaata cctgccggac atcgacggca 240
actcctttag cggccggtac cgcggcttct tattgtcgac gtctctgccc atcaaagcca 300
ccatctacga cgaatggcat gactcccgtc tcatcccctg ggcccatttc gtgcccatgg 360
actcgacgtt ccccgacgta tacggcctca tggagtactt tatcgggtac ggcgggcggg 420
gccatgacga ggccgcgcgc acgattgccc tggacggcaa ggcgtgggcg gagaaggtgc 480
ttcgccggga agacatgcag atctacatgt atcggttgtt gctggagtat gcccggatct 540
gtgatgatcg ccgggatact ctggggtata ccgcggatat cttacgagtc gggcaacgga 600
catgaatag 609

<210> 2183
<211> 1317
<212> DNA
<213> A.fumigatus

<400> 2183
aggcttggag ggaaacacaa cgttcgagaa ttggggaggg ccttcggcgc cgtttggggc 60
tgcaatatcc tctgtgaaga acccgcgggg ccatgtcggt tgggggatgg cctggctgtt 120
tataaagcac tgtcgccagg ccctcgcgcc agcggggcaa aaggcatggc atcatcgtcc 180
tccccttcgt cgtccggcgg ggccaagata ttctccatcg gccacgtcct ccggtacagc 240
ccgcataaca tcatcgtccg caagctcctc ctcctcgacc gcgtcatcgg cgacatcgtc 300
tccctggagc acaccgagcc ggtaggctgg tggcatttcg cacacagcta cgtccggggt 360
aactggcggc gcgcgacggc ccttggcgac ggctatctgc ttaccaagtc ctgccatgat 420
atcgacttca tcatgtggtt actctcatcc ccgccggagt atgtgcaggg gaaggggggag 480
ggaagcacgc agccgcagcc gcagccgcac caccaccacc acccgcgcag catcacctcc 540
accggtacgc tgactcaatt ccggcgcgcc cgcaaaccac ctgccgccgg cccagcaaca 600
aactgtctct cctgcccggc cgagcgggaa tgcatctaca gtgctgtgcg catctaccgc 660
gacctgcacc tgtcccgcgg cgacaccggg tggcccgtga agatcgtggt gccggatatc 720
gaggatgtgt tgcgctcggc cgccggggac agcgaggccg caacggcgga agccgaggcg 780
catctcctgg cccgcctgcg cgaggactac tcccgcgggg cgatgagcga cgaggaaatc 840
gctcggcggc catggtacgg ccggtgtgtc tacgaggcgg acaataacgt ctgcgacgat 900
caggtcgtga cgattacgtg ggatgatgag gatgaggacg aggacgagga caaggacgag 960
gccaacccgc acgcggcgag gcgacgcgcc aaaaccgccg tcttccatat gatttctcca 1020
accgagaaac agtgcgagcg ccgcgggagg gtctacggga cgcgcggcga gatcacctac 1080
gacagccgga ccatctccat ctatgatttc gcgacccgct caacgaccac catcgaggtg 1140
cccaagcagc cgccggagga ggaggaggcg cacggcggag gcgactacgg gctggcgcgc 1200
agctttgtgc gtgctgtcga tgccgtcgag aacgagggct gggatgtgct gcgcgcccaa 1260
gctcatttgg tggtcttcac cacatggcta caagggccgg cgcttagcgt gaatgag 1317

<210> 2184
<211> 699
<212> DNA
<213> A.fumigatus

<400> 2184
cacttaccag gctttgcatg cggttgttgg agattaggaa cgctcagaag gacaactgcc 60
agaatggcac acaacggcat ttctcggagt cagcggctta ccaggctgat gaagcagaag 120
catcgaactc gtcacgaggg agtcgaacca gccagccgac cagggaaaaa gcccgcaggc 180
tcgttgatct ccagcatgaa aaagccgcac gtcctggacc acaataagca tcatgggtcg 240
ccaggggagg tatcgcacga cgactcggcc tattcgctag gaaagcgtca ggattcctct 300
gccattcctc caggatccca gacggaggcg ctggccaccg cggtaaccag tgttgacgaa 360
gcacctgcag acaccggtgc cgctcttcca acggtcatat cggatcctgc ttccagtcaa 420
cctgccgtct ctgttcctgt cgagaccctc cctgcggccg tgccgtcgac cacttcgtta 480
aatgagattc ccgtcccgtc gcctgacccg acttctttca caacggacct ttcagctact 540
accaccgctg acgatttgac gagcataccc accacctctg tctttttgtc attagactta 600

tcggtttcac tgtccgtttc ggttccaacg tctatcgcta tcattaactc cgcgagtagc 660
acccagtcgt ccgctttaat acctagtgct caatcctca 699

<210> 2185
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2185
tggttgacaa ctgacagcgg acgcctcgag ctcagggaca cagacaagaa tgtattatcg 60
cagcttaatg gcaagaaagc ttcgggatac ggaacttttg atggggccac tgtacagacg 120
acatcctatc tacctaactg cgtaaacttc tgtctagtgt tcacagggag acaggatctg 180
tcatccaacc aagggataga tcgaagcttt gccctgtga 219

<210> 2186
<211> 342
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (32),(157),(165),(181)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2186
acggcggaaa acccatcgtt tccccaaagg gngtctatcg tcatggaata cgtacattta 60
gtagaacaca cgatatatgg aagtacctgg aactggaacc actggttgca atgttcatta 120
atgccttggt ttagattctc atacacttta gcggacnggt tctcnatcta ctcttcttct 180
nttccaacca tcgttcatgc gcccaaggat agcgtgcaac tctctgaaat tactctcatt 240
attgacagag ttcgactatt ccgcccgtac attgaaattg gcgaaagggc aaatttctcc 300
ctgcattcga gtgaggccca ctactgtgtc aggaacatat ga 342

<210> 2187
<211> 684
<212> DNA
<213> A.fumigatus

<400> 2187
ggtgcgcggc ccttccagcc ccgtggtgaa gacttaatac atagcccatc tcagtccttg 60
gaaggccggt tcgcattgat atccttcaga atctcccctg caccagcctc gagcagtctt 120
cccgcaagtt cctctccgag cgcgtctgct tcgtcgatcg cctcgactct cgcagtaatg 180
cgatcctcga cgcttcgggt gccatccaga ctcacaacga tcgcatccat cctcaagtcc 240
cccgacgaca tccactccgt ctcaacccca ataggaacac tgcacccacc ctcaagggtc 300
ctcatcagag acctctcagc aaggcaagcc agtgtggatt tccgatccgc cagttggccc 360
agcaattcct gcattttccg gtctcccttg cggatctcca agcccagagc gccctgccca 420
acggcataca ggatgccccc gtccctcgag cccaggtact ggctgatgcg atgcttgagg 480
ccgacccgct caaggcccgc ggcagacatg accatgcaca tgtactcgct gtgcgggtcg 540
tctaccttcg cgagacgcgt ctcgacattg ccgcggaggt tagcgaagcg gagatgcggg 600
tacagacggc ggagctgggc tgagcgccgc acagatgatg tcccgacgac ggcgccctca 660
aggaggctct tcaagcttgt gtag 684

<210> 2188
<211> 531
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (444),(522)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2188
tttagcgtca gttgtggtct gtttttcaat ctgtcttttg tgggtatgtc gttggatgat 60
aaatacatcc ccattttcta tggtctctgt aggaatccct cccctctcaa ctttcagccc 120
ccctcatcat ccgataatat ggtggaaaca tctccaacgc cccagctgcc gctacggatc 180
ggtacccgac ggtccaacct ggccatggtc cagacggaag gcatccggga ccgcctacag 240
aagattggcc cggatcgaac ctacgagatc gaagccctcc gcacagcggg cgatcgagac 300
caactaacag cgctgtacga cttcggcgcc aagagtctct ggaagaccga gctggaagaa 360
aagctcacct ccggtgaact ggatgtcatt gtgcatgttc tgaaaggtaa tactcgaatt 420
ccgtcccgtt catcttttga tganttgcag tgccgagttt gcacacgaca cagatatgcc 480
gaccacgctc cccgacactt gcgagttggc agctatcccg cnccgcgatg a 531

<210> 2189
<211> 798
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (41),(119)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2189
aaggtaatac tcgaattccg tcccgttcat cttttgatga nttgcagtgc cgagtttgca 60
cacgacacag atatgccgac cacgctcccc gacacttgcg agttggcagc tatcccgcnc 120
cgcgatgatc cgcgggacgc actgatcatc aaggccgggc tgccctacac aagcttgaag 180
agcctccttg agggcgccgt cgtcgggaca tcatctgtgc ggcgctcagc ccagctccgc 240
cgtctgtacc cgcatctccg cttcgctaac ctccgcggca atgtcgagac gcgtctcgcg 300
aaggtagacg acccgcacag cgagtacatg tgcatggtca tgtctgccgc gggccttgag 360
cgggtcggcc tcaagcatcg catcagccag tacctgggct cgagggacgg gggcatcctg 420
tatgccgttg ggcagggcgc tctgggcttg gagatccgca agggagaccg gaaaatgcag 480
gaattgctgg gccaactggc ggatcggaaa tccacactgg cttgccttgc tgagaggtct 540
ctgatgagga cccttgaggg tgggtgcagt gttcctattg gggttgagac ggagtggatg 600
tcgtcggggg acttgaggat ggatgcgatc gttgtgagtc tggatggcac ccgaagcgtc 660
gaggatcgca ttactgcgag agtcgaggcg atcgacgaag cagacgcgct cggagaggaa 720
cttgcgggaa gactgctcga ggctggtgca ggggagattc tgaaggatat caatgcgaac 780
cggccttcca aggactga 798

<210> 2190
<211> 735
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2190
gaacaatcaa atcnttcttt cccccgaaaa ctacctcccg acatcttatc tcttcctggg 60
cttagatacc ccgccatggc aaccccgcag gaactcgtgc ctcaaacaga atccatagct 120
gaggtctacg ctacggacga cgcctctggt acttctgctg cccctgagca ccagtcacgg 180

ttcaatggat tagttgctca tttcaacaaa ttatacggcc atcgtccaga tttcgtggcc 240
cgcagtcctg gccgtgtcaa catcattgga gagcatatcg actacaacct atatgacgtc 300
ctcccaacag ctgtaagtgt tgacgtaata atcgccgtca aggttgttcc tcctactggc 360
tcagaaccgt ttgtcaaaat ctccaatgtt tcgcccgaga agttcccctc tcgtgaattc 420
actgtgcctc gggataccga tatcgagatt gaccccaaga agcacgagtg ggtcaactac 480
ttcaaggctg gtcttctggg cgcgttgaag tttctgcgca agcagaaggc cgacggctcg 540
tttacaccag caagctttga ggtcttggtg gatggtaatg ttcccccagg cggtggtatc 600
tccagcagcg ccgcctttgt ctgcgcaagt gcattggccg tcatgaaggc caacggccac 660
aatgtttcga agcaggacct gctcgacctg gctgttgttt cggagagagc cgttggtgtc 720
tactcaggag ggtaa 735

<210> 2191
<211> 432
<212> DNA
<213> A.fumigatus

<400> 2191
gttgatcact gcagcggcat atggtattgt gcgctgacca gtttatgctg tatgatggac 60
caagcagcgt ccatcttctc tcgtcgcgga tatctcctct atacccagtt ctaccccaac 120
tttgcctttc agcatgtccc aattccccaa ggcccgatga aggacatcac tttcctcatg 180
gcccagagct tcgtcacgtc aaacaaggct gaaacggcac cccgtcacta caacctgcgt 240
tgtcccgaat gcactctcgc cgttgtggtc ctcgtcgcgc aacacggtat caccttgacc 300
aaagacaaca actccctggg atacagtctg cgcaactttc acgaggaact tatgcgccag 360
gaggcccggc ttcggggacc cactggaata ccggaaccac tccgggattc agtccaccat 420
gggaactctt ga 432

<210> 2192
<211> 543
<212> DNA
<213> A.fumigatus

<400> 2192
actgaatcgc aaagctcccc gagtagtaat ccgcctgccg tccacagccg atcgcatccc 60
atcgccccgt gcgcatcccc tcctccctct ccctttcctc cccctcggca gataaccacg 120
ggccatcccc cgaccaccca cccccgagat aaaacccatc cagcaccgca aaatccgcat 180
ccatttctgg tcggacctcc tcgtatggga cgttcgccac cagcacaagc gccaggttcg 240
caaacacgcg gaaccaccgc caattgttca ccggcatgtc cttgccgtgc aggccgcgca 300
gccacgcaac gatgtggttc tgcatggcct cgtcctggcg gcgaaagaag gcgtccggcg 360
cgaacaggag cgcgcaagcg agcacctctg cttcgaccat gcgctggtcg ccgtgggcga 420
tggcgcccca tatttccggg atggccgggg tctgtgccgg cccggatgcc ctcgatccac 480
ggctgggga caatggtgat ggccgtccat ggggccgggg ccgaggtaaa tggcaaggca 540
tga 543

<210> 2193
<211> 861
<212> DNA
<213> A.fumigatus

<400> 2193
agaagggcgc cgccttcctc aagggatttg gcccgtccat ttgggtcatc gggaccctcc 60
ttcatgcctt gccatttacc tcggccccgg ccccatggac ggccatcacc attgtccccc 120
agccgtggat cgagggcatc cgggccggca cagaccccgg ccatcccgga aatatggggc 180
gccatcgccc acggcgacca gcgcatggtc gaagcagagg tgctcgcttg cgcgctcctg 240
ttcgcgccgg acgccttctt tcgccgccag gacgaggcca tgcagaacca catcgttgcg 300
tggctgcgcg gcctgcacgg caaggacatg ccggtgaaca attggcggtg gttccgcgtg 360
tttgcgaacc tggcgcttgt gctggtggcg aacgtcccat acgaggaggt ccgaccagaa 420

atggatgcgg attttgcggt gctggatggg ttttatctcg ggggtgggtg gtcgggggat 480
ggcccgtggt tatctgccga gggggaggaa agggagaggg aggaggggat gcgcacgggg 540
cgatgggatg cgatcggctg tggacggcag gcggattact actcggggag ctttgcgatt 600
cagtttagcc agttgcttta tgtcaagttt gcgagccatt tggacccgga gcgagcggag 660
aggtatcgcg cccaggcgag ggagtttggg gccagtttct ggcggtattt tgacaagaac 720
ggtacgcctg gtgatctcgg gacaggtgcg acgagttcag ctgacgggag taggaggcgc 780
catccccttt ggacgctccc tgacgtatcg cttcgcgtgt ggagcgttct tcgctgcgct 840
ggctgtcgcc gacatccctg a 861

<210> 2194
<211> 669
<212> DNA
<213> A.fumigatus

<400> 2194
acaattggcg gtggttccgc gtgtttgcga acctggcgct tgtgctggtg gcgaacgtcc 60
catacgagga ggtccgacca gaaatggatg cggattttgc ggtgctggat gggttttatc 120
tcgggggtgg gtggtcgggg gatggcccgt ggttatctgc cgaggggggag gaaagggaga 180
gggaggaggg gatgcgcacg gggcgatggg atgcgatcgg ctgtggacgg caggcggatt 240
actactcggg gagctttgcg attcagttta gccagttgct ttatgtcaag tttgcgagcc 300
atttggaccc ggagcgagcg gagaggtatc gcgcccaggc gagggagttt ggggccagtt 360
tctggcggta ttttgacaag aacggtacgc ctggtgatct cgggacaggt gcgacgagtt 420
cagctgacgg gagtaggagg cgccatcccc tttggacgct ccctgacgta tcgcttcgcg 480
tgtggagcgt tcttcgctgc gctggctgtc gccgacatcc ctgacatgcc ggacccgcta 540
gcgtcgatgg gcgccgtcaa aggcttcctt ctgagacatc tacgctggtg ggcagctcac 600
tcgaccgatg tgttttatgc cgatggtctt caccacgggg ctggaaggat ccgcgggtgg 660
tgtcaaata 669

<210> 2195
<211> 471
<212> DNA
<213> A.fumigatus

<400> 2195
gaagaccata catcatcgga cagtatgacc ggtcatccag ccttgcagcc tttggacgct 60
agcggacagc aagagatgag ggctatgttc tccacaccga actcgttctt gacaagctcc 120
tggacaagga cgccgaacgt tgaagacaac gttactctat ccctcccgac acctgctaga 180
gccgctggac cttcgcatca cgcctcccaa ctacaaatcc ccgcccaaag accccattct 240
tcgatttctt ccgctccgaa actcatcaat gacggcagca caataccaga cataccatca 300
ccctttcccg taaacacccc ccagtaccag cagacgtata gcgatccaaa tctgcacctc 360
ggaccattta tggatattga aagatacgca tcattacgcc gaccgcgaat cgcgccagac 420
cttgatgcat tgtttgacga gctggcctcg ttggacggta ccgagaagtg a 471

<210> 2196
<211> 471
<212> DNA
<213> A.fumigatus

<400> 2196
aaaaattccc ccatggggaa attcaattcc tcttatataa ggggccccca attgaaccct 60
cttgggccac cggttagccc cattatttat ggcaacccaa ccattgccga agttgaaacc 120
tcctcaaaag cccacgcgaa gtcattaggc gccacttggg ccactttcaa gtcaaaaccc 180
gagggcgcaa tcatcgttcg catccagccg cccgccggca acgtcgacgg catcatcatc 240
attcccgggg cttttacgca tacgtctgtg gcgattcggg atgcgctgct cggtgtggga 300
atcccattca tcgagctgca cgtgagcaat gtgcatgcgc gcgagccctg gaggcaccat 360
agctatttca gtgataaggc ggcggggatt atcgttgggt tgggagtata tggatacaag 420

gttgctgtgg aacatgtggc gttgaacttc aaggagaggg cggctttgta g 471

<210> 2197
<211> 501
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (195),(312)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2197
ctgccatctc tccctagtga ctgcattgtg ctgatgccgc tttttcagtc ttggacccgt 60
cctccatcgc gacggattta cctcaccctc gtctccccgg tcattgggct tcttctggtt 120
taccttttct tcgcctttga cacggacgcc ttcactccca aggtcgtcgt caccccgatc 180
tcacttacac aaaanacagc tacctgcccc ccacttcgag gcattgagga tgtgctggtt 240
atctttgaaa ctggcgtcac agaagcacta gagaaagtgc cggttcactt tcaaacaacc 300
ctgcgatgca tncccgatta cgtactattc tcggactttg aggaggaaat caacggaacc 360
cgcgtgaacg atggtcttgg caccgtcaac gagactatta aacgtacccg cgcagacttt 420
gacctctaca accgcattca tgaacatgga cgccagggac ttacgccggc cgacctgagc 480
cggtccccaa cctgcatttg g 501

<210> 2198
<211> 621
<212> DNA
<213> A.fumigatus

<400> 2198
aggaacgttc tagcgtggag ctttctggtt ggggcccgta tcagcttcgt gttccacgaa 60
ctgtactcga acggtatcaa ggccgtggat ccattcgacc aggtgaagga tattgacatt 120
cgaacaatcc tttacaactc ttctggctcg tctcctgcgc ttttcgtcgg aacgactgcc 180
ttcgagttga ttgtcaagca gcagatcaag agattggagg accccagttt gaagtgcatc 240
tcgctggtgt acgacgaact tgtgcgcatt ctaggtcagc ttctcaacaa gcagctcttc 300
cggagatacc ccatgctcaa ggagaagttc catgctgttg tcattaactt tttcaagaag 360
tgcatggagc cgacaaacaa gcttgtccac gatttgatct cgatggaggc ctgctacatc 420
aacactggac accccgattt cctcaacggg catcgtgtaa gtgacgtttg gtcccaattt 480
cttttgtcaa cgatcctgac agaatgcagg ctatggcaat tgtcaatgaa cgccagcaag 540
cgagcaagcc tacacaggtg gacccgaaga cgggcaaacc tctgcctcct cgtgcaaaca 600
gcccgtcggt cgatgccgta g 621

<210> 2199
<211> 309
<212> DNA
<213> A.fumigatus

<400> 2199
cgtttggtcc caatttcttt tgtcaacgat cctgacagaa tgcaggctat ggcaattgtc 60
aatgaacgcc agcaagcgag caagcctaca caggtggacc cgaagacggg caaacctctg 120
cctcctcgtg caaacagccc gtcggtcgat gccgtagccg ccacagagaa cagtggttct 180
ggattctttg gcagtttctg ggcatctaag aacaagaaga agatggctgc catggagcct 240
cccccaccca ctctcaaggg atcggccgtc ttcacctacg ggagctgcca ggacccgcgc 300
ttaatgtaa 309

<210> 2200
<211> 702

<212> DNA
<213> A.fumigatus

<400> 2200
tcctcttttc tgcaatcctt ctctctgtcg atcttcttcc ctgtgctgtt ctttctgaca 60
tctccacaac aaaaagagac catcacaatg cgtgcctcgt tcctcctccc tgtcgccatc 120
tatgttctga cagcctatgc cgacgacaag accactacgg tcggctactt cattccctcc 180
tggtccgtca ccctgttaag ctacggcgtt tggactagca ctggcgccag cgttgcagga 240
atcaacgccg ccgcaacaac ctaccacctg ggctgtctga aagatgcgcc caagaccgac 300
tgcaacatca agaactcctg gacgatcatc caaggcccag agacagtcag tgccacaggc 360
gtgtacaccg cctcgacgtc aggcaaggaa accagctacg acatcaccgt cacggagtcc 420
tacgagtgca agattcggtc ccgcacggag tccgccagtt gcacgatgag tgttggcatg 480
acggggtcgg tgggtggtgc cgctatcacg tcgtcaacat cgactagcgc gacgtattcg 540
cccgcgacga gctcctacta cgagttggtt gtcacggcgg gagtggacaa gttcactgtc 600
cccgaggcga cgaagacgcc tggggttgct gctgccgggc cggcgggggc gttgatcacg 660
gctggtcctg ttgtcgcggc tgcggttgct gctcttcttt ga 702

<210> 2201
<211> 1458
<212> DNA
<213> A.fumigatus

<400> 2201
aaatcgggag gacggcacag ccaatcgaca acggaccata gtctcgattt tcactcgcgt 60
gataagattc tgggcattgt tctcagccag atgaaacagc ctatcccggc ggttctgtca 120
tcctttccct cggcccagct tctcgacagc ctgatcagat attacctaac ggccccattc 180
tccaccgcaa acacgtggat ccatcgggcc acttttcgcc ctcgacaggt gtgtccagag 240
ctgcttctcg ccatggcagc atctggggcc gtcttgacgc cggatccctc gctacgcaaa 300
cttggattcg ccatgcagga ggtcgtacgg ttgcagctgc cttcggtgtt cgagaggaac 360
aacactacca tccgtgatct tcacctgcat caagcatact tgctatacct agagattggg 420
ttgtggagtg gcaatagccg gaaaatcgaa atctcagagg ccttccgcca accgctgttg 480
accatggttc gccgcggcgg caattttcac cattcagcct atccgccact gccggcgcgg 540
ttagaagaat ctggtcggag cttggaagat acatggcgtg cctgggtgta caaagaggca 600
tacaagcggc tggtgtaccg cttgtttcga ctggaagcgc aagtctccat ggctctcttc 660
accagccctt tggttacgta cgtcgaaatg ggccctcctc tacctgcccc tgcgtatctg 720
tgggaagcga gttccgcgtc tcaatggaag gacgcctatc attcatctcc tctgccctcc 780
accggtcgaa ttcgcacgct caacgagtgc gtggcgaatt tagatcttct ggaaaccagt 840
cgtcgtgttg cggacatccg tctcgcttgc ggcgccgtca tgcactgtat atggggcctc 900
gtatgggagt tccgccagct gagttctctt ctcaacggac acagccgcta ctgggataat 960
gatctgctca tggtcgctcg gcatggacag ctgagcagga tcctcgaatg tttccgaatt 1020
ggatatcgcg acgaagtccc agtgcagctg cactttgtca tgatgcacat gtacgtgtca 1080
ctggaggagg tggagacatt ggctacctcg gacgatgccg gtcgcgcctg ggagcaacct 1140
gctctgagtg actggttcaa gagcgaacat tgccgacacg ccatatggca tgcgggccag 1200
gtcgttcgag gtatcaaatg tcttccgttg caaggtctac gagatttcat ggcgattgcg 1260
ctataccatg ccagtctcac tttgtgggcc tacggagtgg tattcttcca taacatggat 1320
aaccaaagtc agcagctggc tggtccaaca ctgcagcaga aggtctggct ggatggacta 1380
gagtgtgagg atatacagcg tttcatcact ctgcatcgcg gaataccagt cctgcagggc 1440
cttggtcatg cagaagag 1458

<210> 2202
<211> 648
<212> DNA
<213> A.fumigatus

<400> 2202
tggtccatag cgttggagtt ggccaaggaa tatcagatgt acgattgggt tcgcgctctg 60

ctggatccca cggagatccc tcaaacgcca aagaagcaga tcacacctcc tccaaagttt 120
gaactcccgc ccattgaagc tccgacccag ctctctgccc catcgcagcg tacgagaagg 180
ggccggtctg cttcgccgag caagagagcc accctctccc ctcgcaaacc gaggaagact 240
cgcgcagcca aggaggcgag tgtggaggag gccagtgcag ctagcgctag tcttcagaac 300
gctttggaca tgaccgcgtc taacgctgat gctggatcag ccaatggaac tgtcgagtct 360
agtgtggagg aacatgttga agagaaagta gtcaccgtca caggagacac gaccaagccg 420
gcttccagga agaaggtcgc cgccattcct gaagagaatg aggtcgaaga agaaaaagtt 480
aaggttgacg tcaagacgac tgccgacacc gtggatgacg ttcgaaccac ccagacgacg 540
atctcggtcg agatgcctgt tagccttccc gaggcacctt ctgcggagga caccgacaag 600
tgcctcgggt ggcatagttg ctcaccgcgc cgcatgaagg acatatgt 648

<210> 2203
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2203
ctcgtcaggg attttcacaa gcttacaaca cagctgcgag actcccaagc tccgacgcaa 60
tccgatattt cgggatctaa gaatagcctt gactatctat tgactatgaa gacggagtat 120
gcttcttttt atcacgggat cgaacaaata gacccaactg cccctgtctt tgctcatatt 180
aggctttttc gcaaaaaaaa aatggcttgc agctcgtga 219

<210> 2204
<211> 681
<212> DNA
<213> A.fumigatus

<400> 2204
agagggctag tcagacagat ggtgcggttt ctggtaatgc caggaagaag gagaaagagc 60
cggcggagcg ttagtagaga gagatcattt gcgcgtattg cgaccaatgc tgactatgag 120
acaacagagt cctgggcgcc gcaagcctcg ttgattcccc attcgaccgc gcctttagct 180
agtcgtgtat ccgtacctcc tcttgcctct gcactgccgc caccacttca tcccacaccc 240
cttcgtgaac ttaacaccga cgcgcaggaa gcagtgatct tggaagatct actgtttgtg 300
ttcatgggat tcgaaggccg atatatccat taccatcata cgtttgaccc gacagcggag 360
aaagaccgct tggctggtcc ggcctttcaa ctgccgtccg ggctggaccc gacgctgaga 420
gacctgactt cttccatgct gaagatggcg acgcattaca gtgcattgga gtccttcgtg 480
gaagtacaga gtcgcgctga atacggggcc gtgaaccatg cattgtgcgc tacgattcga 540
cggatattaa aggactatct aatcctcgtc gctcaacttg agacacagct gctcaaccac 600
tcgaacttta cactacatat gctgcttttg cacaccgtgc caacaaggtc ttctccacag 660
ggcccacgga ccgcgcatga g 681

<210> 2205
<211> 279
<212> DNA
<213> A.fumigatus

<400> 2205
gaggtcgtca ccgaccctag ggacctcggt ctgacagaat ccaagatcag tggcgaccaa 60
cagaacggag ctgatgtctt gagcccacaa gccaaaaatc gcaagttcat ggaaattact 120
atggaaactc ctctgagcgt cctcaaccgc ttctttgaat ggaacagcgc cgccattgtt 180
actgagaggg acgagcatgg aacgatgagg ccccttgcgg tcgcgaccaa ggtcgatctg 240
ctcacctgga tgctccacca caatgagaat tcttcttaa 279

<210> 2206
<211> 837
<212> DNA

<213> A.fumigatus

<400> 2206
attgtggtct tttggggctc ccagtctggc actgccgaag gctttgcgca ccggctggcc 60
cgcgaagtct cgctgcggtt cggtcaggag gctatgacag ccgacttgtc agattatgat 120
ccagactctg tcagtaggat cccaaactcc aaactggcga tcttcattct ctcgacctac 180
ggtgagggtg atcccagcga caacaccgcc gagttctggg attggatcca taagtcccag 240
aacgtgtctc tgtccaacct ccgctacgct gctttcggct tgggcaacag caactacaag 300
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catggagaac cggacattcg ccgagactcg gtcaaatccg ctgctcaatg ctcgcccgta 600
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cacatcgaac ttgatctcag cagtcaaccc gagttcacgt acaagaccgg tgatcatctg 720
gccgtctggg cgggcaatcc agatgccgaa gtggacatcc tcgtcaacgc cctggggctt 780
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<210> 2207
<211> 672
<212> DNA
<213> A.fumigatus

<400> 2207
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ttcgtgtcag actgttcgcc catccgttca gctggcgcct cttctttcgc cgaggtacgt 180
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cgatctcaag cccttcgttc ccgctatggt ctcccagaga gactgcgatt tgaccctaga 480
acccaaaccc gggtcgaaca atcttccact tctcttgatc cgactaccag acccacccgt 540
ttcgccgagc gcatccgcat tctcgccgaa gaagcagccg ctagttctgc caaccgccgc 600
gccactcttt cgaaattcgc tgccttcgat gaagttgtcg cccgtgtcag agcacgaaaa 660
cagtcgacgt ct 672

<210> 2208
<211> 489
<212> DNA
<213> A.fumigatus

<400> 2208
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gggaccgtct tctcacggca aagtgcgcat ctcaggttgc aaggactggc gctctccaga 120
gccaggagga atataaatac cacatgtcct cctgtattac aacgactatc attccaacag 180
aggcatcaac tagccctcga ctgtacagag tggtcccgcg gcgctatcat gcacatccgc 240
tcccttctca ctatccccgt cctgctcggg cccctgaccc acgcagcggc aatcccagca 300
ggaagctctt ccactgagag tatacagtct cgccaggcag cgaatggccc tggctactgg 360
ctagagtcca tctcgcacca gggtatcgca cccctgggac cttccggata tagggtgttc 420
cgtaacgtca aggactttgg cgcaaaatgt gagtcgcacc cgcagtgggc gaccattcgc 480
cctatactg 489

<210> 2209
<211> 999
<212> DNA

<213> A.fumigatus

<400> 2209
ccccgccccc catccctacg acgttcttgc cccccgcgtg aagacgccag aggaaaagag 60
agaagttatg tagcatcctt ggaggggtac tgtgagcgac ttgaaaaaca gattgcaagc 120
ctgcggtatc gcaaggaatc ttcatcaacg gatgaaagag ggactgtccg ggaaagctct 180
atcacttcgg cttcatcttc ggattgtgtc gctcaatcac atcgcaaaga ggtttccgac 240
attgacgact tagttgggga ttttggcttt ttgtccgttc atgttcgatc tgccgtcgtt 300
gtttcgttgc tgaccagctg ttctaggtcg gtcaatgcca cctcacgaga tttccacggt 360
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ccaaaattat catcgcagtc attaccctca cgccatgaaa taacacctct cttgcgccat 480
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gtagatgctg tatatcagtc cggtggtcgt ttcgccaagc catttgatca ttggatttta 600
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ggatccgtgg ttggcattca ggggatactg ttgcttgccc agtattcctt tttcgaccct 780
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<210> 2210
<211> 435
<212> DNA
<213> A.fumigatus

<400> 2210
tcacctgccc cagaatgtcc ggatctcaag aagtattcca gtccatttct gtggccgaaa 60
tggcgcaagt ccatgatgac atggatctcc tgtgcagtta cagcattggc tggttactca 120
gctggcgaaa tcagtccgtc gtcggctgaa ctgaccaagg aatggggaat tagccaggtt 180
gtctataacc tgggcatcac tttgttctgc attggatttg cgttggcgcc gatggtattg 240
gctccgtttt cagaaatcaa cgggaggagg ccaatcttca ttgctagtgg gattctcttt 300
gtcggtatgg ttcgcctcat gaatgataga cagtcgttcc ccaatgctaa tctgcgatca 360
aagcctgcat cattgcctgt gggggcactc actcttttgg aggaatgctt gttgcacgat 420
tcttccaggg cgtag 435

<210> 2211
<211> 465
<212> DNA
<213> A.fumigatus

<400> 2211
gcggatgtat gtcaatcctc tcatagacac tcctgtcatc gcagcttact gacagctgca 60
gcgacattct caaccatggt gggaggtgtg atcagcgata tttaccatgc ggaagaccgg 120
aataccccca tggcactgtt ctctggtgct gctcttttcg gtactgggct ggctccgatg 180
ctcgccggcg ccgttgtgca acacactaca tggcgatggg tctggtactc tcatgctatc 240
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cttctgagtc ggaaggcaaa agcactcaat acatactatg aaaaattgga gagtgctggg 360
cattacggag tcatcatgtc tgataaggag acggtcaaac gcatccggtg gaaggtgaag 420
agcgatgagg agtcttcacc aagggccgga catccgcgca agcga 465

<210> 2212
<211> 321
<212> DNA
<213> A.fumigatus

<400> 2212
agaacttctt cagcgtacat tctcttctcg ctggagcatc cctgtgaaga gacattcgag 60
cgcttgaagg tcgctctgcc cgtcagtatc tcaaatagcg tcaagctttg gcctgcagtc 120
actgccttta gctttgtgta cgtgtctccg cctttccgga gcatcttcgc tggtgtcatc 180
gccgtcggct ggcagaccta tctcagttgg ttaaaccaga aggctgccag agaggtcgag 240
gcagaaatgg ccgagtcgga ccgttcgtct catgtgctgg tttctggcag tatcagccct 300
tcgacaacga taaaagcatg a 321

<210> 2213
<211> 390
<212> DNA
<213> A.fumigatus

<400> 2213
tatgaattta ttaccatcat cacgggcatg tcctgccctc cgacatccta tattgtaatg 60
tcagacgatc tcgacgattg cagcgactac ggatccgact ttaccccgga tgaagaagag 120
ctgctgaacg atctgctcgc caaagtcgcc acagaatacg cgaccgccca ggcttctgct 180
accgcgacgg caacaacaac gacagcctcg aaaaccgtgc aggcgaccgt cacgaccggc 240
gctgatattg aagattatgc tgaaagtcca gcaagtcaac gagtgcctaa ggtactgggt 300
cgtgaaaagc ccgattttct atggcagaag cgcatggttc agcaggtcac ggatctgtcg 360
gtattcgcca caaggctgga aggaccgcgt 390

<210> 2214
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2214
cttcatcaag ttgaattgat aggatacatt ggacgctgcc tgtcagcatc ccaatcgcca 60
aattggaccc ttggcccgta catcatgcag agcacattgt tgctggtagc gcctgcgcta 120
tttgctgcca gtatatacat ggagttgggc cgaatgtctt caccacgggg ctggaaggag 180
ccgcgccat 189

<210> 2215
<211> 228
<212> DNA
<213> A.fumigatus

<400> 2215
acgcattggt cgttgataca gaaggggtg aaagtgacgg ggtcgaatat tgggtctccg 60
gatgatatcc gggcgatgct gcagctggct gcggagaagg aggtgttgcc gtggatccag 120
gagcggccaa tgcacgatat taacgccgct ctggctgata tggatgcgaa taaagcgagg 180
taccgatatg tgctgtccaa tgagatgggg gcacagtcga agttgtaa 228

<210> 2216
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2216
atcatcgcca tgttgttaaa gcgagggtat gaaggctggg tagcctatga gtactatccc 60
tccatggcgg caggagtaat attcgtcgtc ctcttcggca ttgtcaccct gctacacacc 120
ttccatctct tccgaacaag aacatggttt tgtatatctt tggtcatagg aggctactgt 180
acgttttga 189

<210> 2217

<211> 570
<212> DNA
<213> A.fumigatus

<400> 2217
caatcccata taggttggac cactcgcatc ttcgctccta tcttcgcact cggagctttc 60
tatggcataa tgcatagcag agggaaggac tctgcgtttg atatgtctac agcttataca 120
tccttgtcac tctttgcact actagcagat ccactgcttt ctcttgtcat ggctctaatg 180
acgttcgttg gctctattgg ttctttcagc cgtattcaag aattcctcga gaaagacgac 240
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atggttcttg tggatgattc tgacgccact gaaactgctt cggatcggtc gatccatcgt 360
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gagaaagagc ctgtactaaa gggtttaaca atctcaatag cgcggggaag cttcactatg 480
attgttgggc cctccggctg cggcaagtca acattgctga aggctattct cggtctttac 540
cacagacgac gcaaatcaac gctatcctta 570

<210> 2218
<211> 339
<212> DNA
<213> A.fumigatus

<400> 2218
gtaagacagc tttttcaaca gtcttcgcag acaaaatcgc cagtctcagt tcacacagca 60
acgcaaagca aaatgaagta tctcagtctc gccgttgcct tcctcccccc gctagccgcc 120
gcggccccgg ccgcagatcc cgaagtcgag gcggacggcg agctggacct ggaaaagcgc 180
gcgtccgcgc agacctgcaa gatcgtcaat gtcgatacct atgtcaactg ccggtacgat 240
gccaagttag acgcgggcgc gatctttggg ttccccaagg gagagaaact caccttgcg 300
tgctggaagc acggcgattg ctacaacggg gtttggtga 339

<210> 2219
<211> 447
<212> DNA
<213> A.fumigatus

<400> 2219
caatcggtga caaatcgcaa cgagctgctt ggtcgacgac cacaccacgc agcgactcct 60
gagaacccat atgcccaatc ttccctcccc caatcttcgt ctttcgcaaa cacttcatca 120
tcccgctcag ggctcagctt cggagcttcg ccagcggatt acaccaggga gacgcatgca 180
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ggccgcgctg ttctagcaga ccttgggcaa caacgcgagg tgctgaaagg cacgcagcgc 300
cggctataca gcgttgcgaa taccctgggt gtgagtggtg acacgattcg aaaagtcgaa 360
cgaagagcaa agcaggacaa gtggatattt tggggtggcc ttctcgtttg tcttcctctt 420
ttgctggttg ggtattacac tttttga 447

<210> 2220
<211> 195
<212> DNA
<213> A.fumigatus

<400> 2220
aacagcttcg atcagcagtc cgaccccaag gttgaagatg gtcttgctaa tactactaag 60
ggccatatct atcttgtgaa gcagaaattt tcaagaagta atatcctgct gaatgaaaga 120
tctaactcaa ctatcataag attcccaatt tacaacaata ctccaagtct ccaactgcca 180
gactatggta agtaa 195

<210> 2221

<211> 873
<212> DNA
<213> A.fumigatus

<400> 2221
cacctcgcgg tgaacactgt ccttgtccac gccttcatac catttgccat tcactgggcc 60
tatgtcgtct atacaggtcg caacataacc ccagtcgccg ctttcatttt ctacagcacg 120
gcgttcaagg cgattggcat tcatgaattg catatcctcc gtcgcctcgg ccaccgactt 180
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gatcttcacc accgctatgg atggaagagt agttacaatt atggcaagca gacccgcctt 780
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tacaacaata aagttacgct gcctctgtgg tga 873

<210> 2222
<211> 600
<212> DNA
<213> A.fumigatus

<400> 2222
gcggcccccc ccccccccc ccccttttt ttttccccgc cttccaacgg acaaaatctc 60
acaagaccag gcggcagcgg cgcagaccac tgcggcgaaa tcgacttcaa gtacggctgt 120
cctctgccgg aaggatccca tcacatggac ctctccgata ttgccatggg ccgactccag 180
ggaaacggca gtctcgccga cggtgtgatt cccatccgct accggcgtgt cccctgtccc 240
aagccgggga acatctacat ctggcttcat gatggggcgg gaccgtatta ttttgcgctg 300
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cggtatggct cttgggtcct cccgcagggc aagggaccca ttactgtgcc tgtttcgatg 480
aggctgacgg cgcccaatgg gcagcaggtg gttaaggagg gcgccattac cagctatacc 540
ccgccggcga ctgcggtcga gggcttttgg tatattgatc tgggagtgca gttcacctag 600

<210> 2223
<211> 339
<212> DNA
<213> A.fumigatus

<400> 2223
cgcgtcgatc cttccagccc cgtggtgaag acggagaagg agcgcgactt ctactttgct 60
aagctccggg atatcgaact gctgctacag aatgccatcg aggccgaccc ggaactggag 120
aaggatgaag actccctggt gaagcatatc cagggcatcc tgtactcgac agaggtacgt 180
gtttgtgacg ctttgcctct cttctttgct tctggtgcta attctttgta taggaagggt 240
ttgagatccc agctgaagcg gaggtcggcg atgagctgga gacattctac gttcatggca 300
aaagacgtct tttcgttaat aataccccct tatcactag 339

<210> 2224
<211> 1221
<212> DNA
<213> A.fumigatus

<400> 2224
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ttctctaatc agacacctca tacctctcat gttgattcgc atgcacatct agcgaccagc 120
ggatatgccc caaatgataa tcagttagct ggcttggtag aagccgcaac agcagcggcc 180
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gccgccggcg ttcattccgc ggctgcactt ttccgccaac cttccagtaa caagaaacac 660
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gggggtcgaa ggatccgaac g 1221

<210> 2225
<211> 372
<212> DNA
<213> A.fumigatus

<400> 2225
gaagagcgca agctgctgtt caagctggac acggcaatat taacttttgc ctcccttggt 60
agtacatcaa ccgtgaatct tgtagccaag ctgacagtga tgcaagggta tttcatcaag 120
tacctcgatc aggtcaacat taataatgcg tttgtctccg ggatgtacgt ctgccttgcc 180
gacattgata tcgatccact gacagggtac aggaaagagg acctcaacct ctacggcaac 240
cagctcaatt acatgcagac ctgctggacg gtgggctacg tcattggcga gataccaagc 300
aacctgctcc tgacgcgcat ccggccgcgg tattggattc cggcgatgga ggtatccgca 360
gatttcttct ag 372

<210> 2226
<211> 231
<212> DNA
<213> A.fumigatus

<400> 2226
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taccccggca tgcagtacat catcggctca tggtaccgca aggatgagct ggcgaagcgg 120
tcatgcattt tccatacgag tggtgggatc gccagtatgt tttctgggta cttgatggcg 180
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<210> 2227
<211> 525
<212> DNA
<213> A.fumigatus

<400> 2227
tatgccgttg aatcccagat aaggcatcac aatctcgacc caaaggatgc catggtcctt 60
atagagccag aagaccttga tcggcccatt ttagacacaa aatatatcct ccgagtaatc 120

gatgagaatg cgcatagcac tgctctgatc ctcctacccg caattcagtt ctataccggg 180
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ttccatccgc ggttttctgg ctggtgggga ggggataagc aaactcgttt cttgatgaac 480
acccgtatgt tatctcgccg attcagactg tgtttttat attga 525

<210> 2228
<211> 444
<212> DNA
<213> A.fumigatus

<400> 2228
agtgttatac tttcactatt gctcacgcaa agtttacgca gaatgggttc tcggctacat 60
gttcaggtaa tccacggcgg acccccctctt ccttacaaag atgatatcag ggcatttggc 120
aaagaatatg cagagcaact agatgcacaa gacccttttgc gtcgcttcag agacgagttt 180
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actgaagaga catccgatga aaaatgtatc tacctctgcg gcaactcgct tggccttcaa 360
ccccgtagca cccggaaata catcgaccac taccttcgga catgggcaac ccaaaggcgt 420
aaccggtcat tttgttccgc atga 444

<210> 2229
<211> 492
<212> DNA
<213> A.fumigatus

<400> 2229
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ctaatacaag ctgtgcctgc gtccatgctg cagaaactga agagacatcc gatgaaaaat 120
gtatctacct ctgcggcaac tcgcttggcc ttcaaccccg tagcacccgg aaatacatcg 180
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aaggcatttc cgagtgacca cgtacgtttt atggacttga tttcttcttc aaagttatgt 480
ggccaaagct aa 492

<210> 2230
<211> 1197
<212> DNA
<213> A.fumigatus

<400> 2230
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gatctctacg tgatcgggtc gttccgggcg acgccgcagt ccatgttcat ggagaagtgt 540
tttaacgagc tgagcctgcc gcacacgctg acgtccatcg accgcggccc caagggcacg 600
atcgaaggcg tgatcatgca gcccagcttc ggcggcgcct cggtcaaccc gcccatctcg 660

gccgcgacgc cgtacattcc cgccgtcagc gaggccgcgc gggcgatcgg gttggtggat 720
accattgtcg tgggggagtc acagtcgcag tcacagtcgc agtcgcaatc gcaatcacaa 780
tcgcaatcgc aatcgcaccc gcacggacca ccaacggcga gaacgttaat tggggagaac 840
gccacgtgga agggaattcg ggcgacgctc acacgcgact acgtgccgtc agcctaccga 900
ggccgggcgg cgatcatcct agcagggtcg gaaagcgatg catcggcggc gatctatgcg 960
ctgcgcagtc tcgggggtggg ctcgatctac actgtgggat tccgggcgac cggaccgctg 1020
gcggcgggac tggagccctt tacctcgatc cagtcggtca agctggtcga gcagccattt 1080
gtgatggtgt ccgcgctgcc gccggagaag tcgctcctgg tgcagccgct gctgcgacac 1140
taccgcagca acgggcgcac atccgtcttc accaggggct ggaaggagcc gctctat 1197

<210> 2231
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2231
ttcactaatt tccttatagc tgagcagttg cctacagtta cactagactt tagtacaagg 60
gattctggtt caacacagga ggctgctaac tgtattagta ctactacatt tactaggcaa 120
atagggatgc attcagacat ggttagtatt agtattatag atagtaggat tagccatacc 180
tataactatt taatgaatag tacagtcagt cagttctag 219

<210> 2232
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2232
ctaaataacc cactagtaag taacctttta ttacctacta taataaatag acactggaaa 60
actaaagagc ttagttactt ctggcctaat atattagaag atactagtat taagcagtat 120
aacacaagcc tgttctataa gaatatgaat atatttacta actatataaa agatataatt 180
aattataaag gtaaaccttt tgtcaaagca aacttataa 219

<210> 2233
<211> 273
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (187),(244)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2233
aaactgaggc taattaatat acatgagatg actctgatag cctactccat tcttcttttc 60
tccccttgt atattatttc gtatattatt gcatattctc ttcgatggtt tcctcacggc 120
gggcggttcc cctccttggt cttgcctttt tcgtcatctt tctctacaca gtcaatagtc 180
tctcganaca atggcggcgg acgccaaaag gcgtggggtc tggcaaattg gtcccttcac 240
ctancccgat accatcccgg ttttcgaaca taa 273

<210> 2234
<211> 351
<212> DNA
<213> A.fumigatus

<400> 2234
actgacggac ccttccagcc ccgtggtgaa gacgacgccg gacgcaaggt tttccccggc 60

ctgggggtat actcggccag caagttcttc gtggaggcga cgctgcagtc gctgcgcttg 120
gagaccgccg ggatggggct gcgtgtgacc gccgtccagc cggggaacac tgccaccgat 180
ttgctgggga tgtcgacgga cgcggaggcg atcaaaaagt acggcgagcc gtcgggggcg 240
aagatcttgg acccggagga tgtggccaat tcgattgtat atgcgctgcg ccagccggcg 300
catgtggcgg tgaatgaggt cttgattgaa ccaagagatg agcctattta g 351

<210> 2235
<211> 558
<212> DNA
<213> A.fumigatus

<400> 2235
aagattatca ggcctgtgtt ctacgtgaat tctagcataa ttaccacccc gcttctagaa 60
aaatggctgc ggatcttgga gctgttgccc agctccttga agcaagcttg gacccaaggc 120
aaaacaaaca aggtatggga aattaggatt gtccggcttg tatgtctatt ttgcgatgga 180
ttgtctgatg tttttgcagc tgaggctact cttcgccagg aggaacagaa acccggcttt 240
tctttgcagc tcctccagat cacggcatct acttcctacc cctacaacac ccgcctcgcc 300
agtgctttat gcttcaagaa ctttattaag cgaaactgga ctgatgagga tggcaactac 360
aaacttcagc tggacgaggt tgcgacaatc aagcgggagc tgatcagctt gatgatttct 420
gttccggcag gtatccagtc tcagttaggt gaagctgtca gtgtgattgc agatagtgac 480
ttctgggagc gatgggacac ccttgtggat gtgagtagta caaataaata ctttttcgtc 540
gtcctgtact tgtactaa 558

<210> 2236
<211> 1215
<212> DNA
<213> A.fumigatus

<400> 2236
gtgaaacccc gattctcctt tttgctacat aaacctacag atgatagtgt ggagattgcc 60
gtcggtctga ccagggaagt tggtcagcac ttggaagaaa tgagccctcc catcgctctg 120
gctgtctttg atcagttcag gaatatcttg cacgaggccg acatcgataa acgagttcaa 180
tacatgatcg aggtcctgtt ccaggttcgc aaggacagat acaaggacaa ccccgcgatc 240
aaggacgaac tcgacctagt tgaggaggaa gatcagatca cacatcgtat cggtctggac 300
gatgaaattg atactcagga tggcctcaat gtcttcaaat atgatcctca gtgggaggag 360
catgaagagg cgtacaagaa gctcaaggct gaaatcctag gcgagggtag cgatgatgat 420
gaagaagatg aggacgaaac ggacgagagt tctgatgagg aagaggagga acgacagatg 480
gaaatcaagg atcagagcaa tacagatctc gtcaatctcc ggcgaacaat ctacttgact 540
attatgtcca gtatcgactt tgaagaatgt tgtcacaaac ttatgaagat ctcgttgccg 600
cctggcctgg agccagaact cccctcgatg atcatcgaat gttgttccca ggagcgaaca 660
tactcgaaat tctacggctt gattggagag cgatttgcga aaataaaccg tttatggtct 720
gatctttttg aagccgcctt cgccaagtat tacgatacaa tccatcgata cgaaactaat 780
cgtttacgca atatagcccg tttctttggc catatgctga gtacagacgc catcggctgg 840
catgtcatgt ctgtcattca ccttaatgaa gacgagacga cctctagcag tcgtatcttt 900
atcaaaatct tgttccagga tctaggagaa catcttggcc ttgcgaagtt gcaggagcgc 960
atgagggatg aaattttgcg acccagcttc gagggacttt tccccctgga caaccctcgc 1020
aacacccgct tttccatcaa ttacttcacg agcattggct ttggtattct gacggaagac 1080
atgcgggaac acttgaagaa tcttcccaaa ccgactgttc ctgccctgcc tgcacgtgac 1140
gcaaagtcgg actcggagtc tgtcagttcg cattcgacct gctccacatg cacaggttct 1200
tctcggtctc gctcg 1215

<210> 2237
<211> 726
<212> DNA
<213> A.fumigatus

<400> 2237
atgtatcaaa atcaattcca gaagtacaat ccggaacttt ttgtcgaggc agatgtccct 60
ccccatgtca tgaatgacga ggggccagtt gtggcgcctt gggtctgcaa agccgctttg 120
caacgctcag tcgccaagat tttttatcat accgggtttg aggagtatca gccgtcggct 180
ctggacgtgg tcaccgatat tgcttcggat tttttcttga agatcggcga gaccatgaaa 240
tcatatatcg aagctccgaa agtcccacca actgaaacct cgtcctcgac ttcacaatgg 300
aagcgggcct atactgaacc ggagattgtc ttacacactc tctcctcagt tggaacagac 360
gtggaatccc tcgagtccta catcaaggat gatgtcgaac gacttggaac gaaattggcg 420
actgtgcatg agcgcatgcg gtccctgctt tcggaactct tgcgtcctgc ccttgcggac 480
ggcggtgaag atggctcgaa ggcatttgca gatggaagtg agcagttcat cggcggtgat 540
ttcgctgagg acatcgacga agacttttc ggattcaagg agttggggct ggatagagaa 600
tttggcctgg caacgctcag cgttcccctt catcttcttc aaaacaggat gtataatgcc 660
gctcaggccc agaacccaag gtatgtcact tttctgtata cattgacagc ggaacactgg 720
agctaa 726

<210> 2238
<211> 768
<212> DNA
<213> A.fumigatus

<400> 2238
ccagcgaacc ctcgcgttcc caaggcgagc gggaagcgag ttaaggtgtt gcatctgtcc 60
gactttcatc tggatccgcg gtactcggtc agctctgagg gtaattgttc gtccggattg 120
tgctgtagta acaacaactt caattctgct gcaaaggacc aggtcctcat ctctgccccg 180
gcgtacggga cttttaagtg tgacaccccg tatgatcttg gccttgctgc ccttcaggcg 240
attgggccct tgaccgggac cgggaaggga aaggatcagg actctctggc ttggtctctt 300
tacactggcg atcttgtgtc gcatgatcca gtgcaggcaa tgtctcgaga atatgtcgag 360
tacacggaga ctagcatcta tggcatcttc aaagaatacc tgaccgggcc tgtctttgct 420
gcgctgggga accacgatac aagccctgag aacatcaatg ctcctcacaa tctcccaggg 480
cctctgggcg aacagcagag ctggaaatac gagcatgttg ccggactctg gaaacatgaa 540
ggatggatcg acgagaaggc tgatcaggag gcgcgcacac actatggtgg atactctgtc 600
aagactcact acggtctgcg cattattgcg tttaatactg gtaagtacct ggatatcggc 660
aattatgcga ggactgaccc tatcagattt ctggtacgcg aaaaactact tcaacaacat 720
caactctacc aatccagaca actccggcgt cttttcctgg atcattga 768

<210> 2239
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2239
cgagcttcaa aaggccgaag atgccggcga gcgtgtctgg atcatcggcc atgttataca 60
gcggatggga gggctccaat tccctccctg attctaccaa tctattctac caaattgttg 120
gaacgctact ccccccatgt cattgccaat tatcttcttt ccggccttcc cccaaagaac 180
cctttcctga tt 192

<210> 2240
<211> 456
<212> DNA
<213> A.fumigatus

<400> 2240
ccgggcctgt ctttgctgcg ctggggaacc acgatacaag ccctgagaac atcaatgctc 60
ctcacaatct cccagggcct ctgggcgaac agcagagctg gaaatacgag catgttgccg 120
gactctggaa acatgaagga tggatcgacg agaaggctga tcaggaggcg cgcacacact 180
atggtggata ctctgtcaag actcactacg gtctgcgcat tattgcgttt aatactggta 240

agtacctgga tatcggcaat tatgcgagga ctgaccctat cagatttctg gtacgcgaaa 300
aactacttca acaacatcaa ctctaccaat ccagacaact ccggcgtctt ttcctggatc 360
attgacgagc ttcaaaaggc cgaagatgcc ggcgagcgtg tctggatcat cggccatgtt 420
atacagcgga tgggagggct ccaattccct ccctga 456

<210> 2241
<211> 993
<212> DNA
<213> A.fumigatus

<400> 2241
ttcatccaat ttgtcgagcg tcctcacatg cagaagcttt acggcagaag cctgcgacga 60
gatgctgggc tgacaaagag tttgaagcga tccctgcttc cttcgttaca acagcttcat 120
ggaagtgttg acaagatctt tgatgagtct ttcgaattca ttgaagaact cattgacacc 180
gctcgtccga agctcgcggc gggcgtcaac acgtttgtca aagacacgtc agctctgttc 240
caaaaatatc ccgctcgtgt gactatctct cgtattgatg aagacctggc tggctatgat 300
ttacgtgact attccttgga gattgagggc actgattcat tgtcacccaa tgacaacgat 360
caaagcggta gggagggtgc taatgctcgt atgcccctg acagacgcgg cgacttgaag 420
aacttggtct tcgagtatgg ttcacccatc aaggttaagt ggactgctcc gctcaatcac 480
agcaagaagg attggattgg cctatatcga gtcaccgaca acacttctcg ggaggttaca 540
cgcgtctcat ctcaagggag atggattgca gtcaacgagg gctcgtatga caatttgact 600
tgcgagaagg gtatcgtgag cagcgatatt ctcatacccg cctcacaacg caaggacaac 660
gaaaaccgcg atcttgcttc cggcgaagtc atcttctctg gtgataagct attctggact 720
cagggcgtct ttgagttccg ctaccatcac aatggcaaac acaatgttat ggctatttca 780
agaccattcg agattcgtat cagccggttt gatgaggacg agatcccact gatgaaccct 840
acatcagtcg agctaagctt gtttcccgtt gtgcgtaact gccttgatcg agatccccag 900
atcgcgccgg agaccgtgga tgagccgttt ggcggccttg ttgaacgtga cggaaagtat 960
gccaagagag ttgtgttcgc ggttcatcaa atg 993

<210> 2242
<211> 462
<212> DNA
<213> A.fumigatus

<400> 2242
gtcagctcaa aaacgaaaat gaagctagcg gtcttcagcg ccaaatccta cgacaagctc 60
ttcctcgaca gctcccttga gaaagactac gcatccttct gcgaaatcgt ctaccactca 120
ttcgctctat cctctgagac agtctcactg gccaaaggaa gcgatgcagt ctgcgccttt 180
gtaaacgaca cactggacgc gccagtcctc aaatctctcc accgctacgg cattcgcgca 240
atccttctgc gctgcgctgg tttcaacaac gtcgacctgc aagttgcaga ggagctgggc 300
ttctttgttg ccaacgtccc ctcctactcc cctgaagctg tggccgaatt cgccgtggcg 360
ctgatccaga ctctgaaccg caagacgcac cgcgcgtata accgcgtgcg ggaggggaac 420
ttcaacctcg aggggttcct gggacatacg ctgcacggga ag 462

<210> 2243
<211> 330
<212> DNA
<213> A.fumigatus

<400> 2243
tctggcggtc cagttgctaa tttcaaatct gcgactagaa tctcggatca gatacagtcg 60
atgttgcgag aggccgggtt gaaagttgcg acgcagaagt acgagtacac ttcttctggt 120
atcacgcatg agggacagaa tgtctacgct atcatccatg cgccgcgggg cgacgcgaca 180
gaggcgattg tactggtggc tgcttggaag actgctgatg gagagttgaa cctgaatgga 240
gtcagccttg ccctgacgct ggcaagatac tttaaacgtg ggtcgatact tgtcacaatg 300
gtggaggagg ggtctttcaa gccatgctga 330

<210> 2244
<211> 624
<212> DNA
<213> A.fumigatus

<400> 2244
cgacgatcat ctctaggttg gtctctgtgg tccaaagata tcatcttttt gtttccacca 60
gacagcaaat ccggaacaca ggcgtggatc gatgcgtatc acgacatgca aacgtcctca 120
gtccagcctc tgccactgaa gagcggtgcc ctacagggag gactcgttat agaatacccc 180
ttcgaccatc gattcgagtc tttacatatc gtctacgatg gtgtcaacgg gcaactgccc 240
aatttggatt tattcaacac agcgatttcg atcgccgggg ggcagatggg aattggaacc 300
agcctgcagg aaatgtggga gcatgacgat agctatcaaa agcggctgca gacaatcatc 360
aggggtatgg tcaagcaggg cctcggacac gctactgggg cacatagtag cttcatgccg 420
taccacattg atgcaatcac tctgcaaacg aagggagatg gctggcaaga cgagatggct 480
ctgggccgaa ctgtggagag tctctgtcgc agtcttaaca acctgctcga acaccttcac 540
cagagtttct tcttctattt gctgatgcat accaatcgct tcgtcagtat agtcttcacg 600
ccggggccgg aaggaaacgc gtac 624

<210> 2245
<211> 273
<212> DNA
<213> A.fumigatus

<400> 2245
agtggaaacc aaggcattca aagttttgcc ttttggtctc gactcgactg tgaatatgag 60
agacctcgat cctgcaggta tgcattacga tatttttttt ttttttttgt ttttttttgt 120
ttttttttca tttggctttt gtctaacttt acttcagaca tggataaact agtaagcatt 180
aagggcttag tcattcgaac gacacccatc attcctgata tgaaagaagg tacgatacat 240
ctccttgata tccatctaat cagattatcg taa 273

<210> 2246
<211> 516
<212> DNA
<213> A.fumigatus

<400> 2246
tcaacggaag gaaccggaat acatcagcat gttgagcacc atgggcaatt ggaagtaacc 60
agcttgaact tggatgcaaa gaacctgaag gcatacccat caacactcaa gctatggcat 120
cagttgcatg cttatcctca agagatcatt ccattgatgg atcagacagt gaaggatgtg 180
atggtggagc ttgcgatcaa ggagatggag cgcctgcggg ctcagaacca acgaaaccag 240
aatcataaca gaggcctgag ctctggtccc gctgttccca gctctgacgc gctgagtgaa 300
actggcagaa tgccacagaa cgagatcccc gaccttgtcg gtgaagtgga aaccaaggca 360
ttcaaagttt tgcctttgg tctcgactcg actgtgaata tgagagacct cgatcctgca 420
ggtatgcatt acgatatttt ttttttttt ttttttttt ttttttttt ttcatttggc 480
ttttgtctaa ctttacttca gacatggata aactag 516

<210> 2247
<211> 300
<212> DNA
<213> A.fumigatus

<400> 2247
ctcatctttc cagctttctt ccgttgccaa gtctgcaacc atggtgttca ggtcgacatt 60
gatcgtggaa agattgcgga acccactgag tgcccacgtc cagtgtgtaa ggaacgaaac 120
tcgatgcaac tcatccataa ccgctgtgta tttgccgaca agcaggtcat caagttgcag 180

gaaacacctg acagcattcc tgatggccag actcctcact cggtttccct ttgtgtgtat 240
gatgagctgg tggatgtgtc ttcaccacgg ggctggaaag agccgctcaa tgggcattca 300

<210> 2248
<211> 369
<212> DNA
<213> A.fumigatus

<400> 2248
caaggcctcg tgaagatgcc agtcacagca tatcctattt accttcactt atgtggcagc 60
atccatttcg agttactcgt actggaacga aggcaaaagg accagctcgc ggggatcgag 120
aaccaggtac tgaagacact gtggatggtc ctgatgtgct attttatatt tttccacatc 180
ctatgctttc tggtcgttgt cttgtggata tggctgaccc cagtgttcgg ccaatccgtc 240
atggtggatg gtgtcaaaac tttcaggtgg gaattattca ctgctggttc atctttcaag 300
gtcctaggat acacactgac gccggataca atggtctcgt ttaaaaatgc tgccttcccc 360
tcgacttga 369

<210> 2249
<211> 972
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (828)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2249
ctcggcaaac gcactcttct ctattcaact gccgaggtct tgactacgcc cgtttttgaa 60
aacaggctta cgctcgtgct ctgggttcct accggagaat ctggcgagtt tgcaatcaag 120
ggagccaagt cagggaaggt tgaaaatggc gatggctgct caggaatcaa atttaagcgt 180
gagaaggact atctcgtcgt gaacttctct caggccaaag gattgagcgt cttgcggctc 240
gataatggag tacgcgtggt tctgctcgac aaggccgccg cctaccgctt ctgggctcct 300
gcattgacag atgatcctaa tgtgcaagag accgaaactg gtgagtgcac ttcatacaga 360
gtacattgtc gtttcatact aatggtcaca gtcctcgtcc acggcccgta ccttgttcgc 420
tccgccagca tttccaagac cacattggca ctccgaggag actcggttga gaaaaccacg 480
ctagaaatat ttgcgcctca cagcgtgagg aagattacct ggaacgggaa agaggtccag 540
acctctcaca ccccatacgg cagtctcaaa gcgactctcg ccgcaccacc agacatcaag 600
ttgcccgctc ttacctcctg gagatccaac gacagcttgc cggagcggct tccatcgtac 660
gatgattccg gcccagcctg gattggtagg ttagatccaa tctataagac ctggccaaat 720
ctaatacgtt ccacagaggc aaaccacatg accacatcta accctagtcc acctgcaacc 780
tttccagtcc tgtacgcaga cgaatacggt atgtcaaccc ctgtctcncc tatatatcac 840
tggtttaatc cgcatacaag cttccacaac ggcgtccgcc tctggcgcgg ctacttcaac 900
ggctcagctt cgggagtctc cctcaacaat ccaaggagga agcgccttgg tacgtcactc 960
tccccatcct aa 972

<210> 2250
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2250
acaggtaagc tattctcaac ccatctattg gactttactg acattatcca gggtctcgcc 60
gacgtacgtg gtctgtctcc ccgtgagcgt gctcgtgtca tcatcaagca gtgcgcccac 120
cccgactacc agcccatcct tacagactac ctggaccgcg ctgaatacga gtgcctgaag 180
aag 183

<210> 2251
<211> 957
<212> DNA
<213> A.fumigatus

<400> 2251
agacacatca ccatgtcgga ggttcctcct cgccggaagc cttacctgat catgcagccc 60
gaggaccgca ttggaactcc acatatcccc gtcgacccgg agaaggtcgt cgccattgtc 120
gagtcggact acccggatca gacgcagccc aacgctcccg aggatgcaac ctcgcaggcc 180
attgccagca accttattga gtttctgaag cacgaggtca ggcatggccg tctgccccag 240
aacctgctcc ccatccagtc cggtattgga aacatcgcca acgcggtcat tggtggcctg 300
agcaagggcg gtgccgactt taccaacctc aaggtgtgga ctgaggtgct gcaagattcc 360
ttcctggatc tttttgactc tggaaacttg gactttgcca cggccacctc catccggttc 420
tcccccgacg gattcaagcg gttctacgat aactgggagc actatgccgg caagcttctg 480
ctgcgttctc agcaggtttc caactcgcct gagatcatcc gccgtatcgg atgtatcggc 540
atgaacactc ccgtcgaggt ggatatctat gcccatgcca acagcacctg tgtcatgggc 600
tctcggatgc tcaatggtct gggaagatct gccgacttcc tccgcaattc caagtacagt 660
atcatgcaca cccccagtac ccgccccagc aaggttgatc ctaccggtgt cagctgcatt 720
gtgcctttct gcactcacat tgatcagact gagcacgatc tggatgtggt tgtgactgaa 780
caggtaagct attctcaacc catctattgg actttactga cattatccag ggtctcgccg 840
acgtacgtgg tctgtctccc cgtgagcgtg ctcgtgtcat catcaagcag tgcgcccacc 900
ccgactacca gcccatcctt acagactacc tggaccgcgc tgaatacgag tgcctga 957

<210> 2252
<211> 846
<212> DNA
<213> A.fumigatus

<400> 2252
agtccaatag atgggttgag aatagcttac ctgttcagtc acaaccacat ccagatcgtg 60
ctcagtctga tcaatgtgag tgcagaaagg cacaatgcag ctgacaccgg taggatcaac 120
cttgctgggg cgggtactgg gggtgtgcat gatactgtac ttggaattgc ggaggaagtc 180
ggcagatctt cccagaccat tgagcatccg agagcccatg acacaggtgc tgttggcatg 240
ggcatagata tccacctcga cgggagtgtt catgccgata catccgatac ggcggatgat 300
ctcaggcgag ttggaaacct gctgagaacg cagcagaagc ttgccggcat agtgctccca 360
gttatcgtag aaccgcttga atccgtcggg ggagaaccgg atggaggtgg ccgtggcaaa 420
gtccaagttt ccagagtcaa aaagatccag gaaggaatct tgcagcacct cagtccacac 480
cttgaggttg gtaaagtcgg caccgccctt gctcaggcca ccaatgaccg cgttggcgat 540
gtttccaata ccggactgga tggggagcag gttctggggc agacggccat gcctgacctc 600
gtgcttcaga aactcaataa ggttgctggc aatggcctgc gaggttgcat cctcgggagc 660
gttgggctgc gtctgatccg ggtagtccga ctcgacaatg gcgacgacct tctccgggtc 720
gacggggata tgtggagttc caatgcggtc ctcgggctgc atgatcaggt aaggcttccg 780
gcgaggagga acctccgaca tggtgatgtg tcttcacccg gggctggaag gaccgctgca 840
tgcgca 846

<210> 2253
<211> 249
<212> DNA
<213> A.fumigatus

<400> 2253
cctccatggc gagatgctga cggtgattac ggtcagaagt ccggtcaacc gcagcgttat 60
ttctgccaga aatctgctgt tagtgcacat atcgtctgcg accacatttt tgaaggatca 120
aaaggtggga aaatggtatg tgtccttgcc ctaattatta accaagacgt tgacaccggt 180
gctatcaagg caattaagaa aacccggcta catatcatcg gtcttcaccg ggggctaaag 240

ggcactcag 249

<210> 2254
<211> 438
<212> DNA
<213> A.fumigatus

<400> 2254
tgtcctccag gagccgttga ctacatcttc ggtgacgcct cggcctggtt cggcgaatgc 60
gaactcgtgt ccgtcggccc cggctacatt accgccatgt cgcgcacgac ggcggacgag 120
accacctggt acgcgatcga ccactgcaac atctacggga agcccggcgt cgatcttacc 180
agcgcggtgt accttggtcg gccttggcgt gtgcttgccc gtgtcatctt ccaaaattcc 240
cagttgtcga acatcatcaa ccccaagggc tggagcccca tggcaacggg ggccacaccg 300
ctttactatg agtacaataa caagggtgct ggagcggata cctcgaagag agagtacgag 360
tctcccatct ctggtgctgt tagcatcgcc acggttcttg gcggcggttg gaacagctgg 420
gttgatacca cgtattaa 438

<210> 2255
<211> 564
<212> DNA
<213> A.fumigatus

<400> 2255
ccccccccccc ccccccccccc ctttcccggt ctcttggagg atgaacagtc atttgtcagg 60
acatccagaa gaccggaaca gccacactgt cgactcctga cttcaggcac cagaatgtat 120
cttccctctc tcgtcctcgg ccttcttggg tttggcctca cggcttctac aagccccatc 180
gaagaacggt cgaatcgcag taaagcccca gccggatgcc ttacagtcgg ctcatcgggt 240
acgtacgcga ccattggcgc tgcgttgagc gctctcggca gctccacgtc cgacgcctgc 300
atcttcattg gtgctggaac gtaccaggag cagatcacca tcgactacaa gggcaaactc 360
accatgtacg gcgagacgac cgacacgagt tcatacaagc agaacctggt cactatcacc 420
catagcattt cctctcctga ggcgggatcg cttgacaaga gcgccacggt caatgtccgg 480
tcggacgggt tcaagatgta taacatcaat gttatcaacg gttacggcaa gggcgcacag 540
gctgttacgt atgttgtcct ctga 564

<210> 2256
<211> 678
<212> DNA
<213> A.fumigatus

<400> 2256
cccctccgtc ggagggtagc tgacagggat atgttaggct cgtcgccaat gccgacaaac 60
ttggcttcta cggatgcagt tttgtcggct accaagacac tctctacgcc aaggccggtc 120
gtcaatacta ctctaactgc tacatcgagg gtcggttctt ttccacctcc atccatccac 180
gcctcacccg catatgctaa tgtcctccag gagccgttga ctacatcttc ggtgacgcct 240
cggcctggtt cggcgaatgc gaactcgtgt ccgtcggccc cggctacatt accgccatgt 300
cgcgcacgac ggcggacgag accacctggt acgcgatcga ccactgcaac atctacggga 360
agcccggcgt cgatcttacc agcgcggtgt accttggtcg gccttggcgt gtgcttgccc 420
gtgtcatctt ccaaaattcc cagttgtcga acatcatcaa ccccaagggc tggagcccca 480
tggcaacggg ggccacaccg ctttactatg agtacaataa caagggtgct ggagcggata 540
cctcgaagag agagtacgag tctcccatct ctggtgctgt tagcatcgcc acggttcttg 600
gcggcggttg gaacagctgg gttgatacca cgtattaaga gtcgttggtg ggcgggacgc 660
tttgcacatg gttgttga 678

<210> 2257
<211> 207
<212> DNA

<213> A.fumigatus

<400> 2257
cctaaaccag tccgctggtc gaggcctcct ggcgaggacc tccatgatcc atccgacttt 60
agtgacacac acttcgtgtc ggtgaatacg atcgtgttct atgtaaagat caattcatac 120
cgttggactc aaccatgtat gaaacggccc agggctctag ccatctggtc agagtcttca 180
ccacggggct ggaaggagac gcgccat 207

<210> 2258
<211> 876
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (752),(780),(788)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2258
gtgtgtaact ccgtagggag ccgtttttca agtcatggta ttctgtcagt agatctagct 60
ctggctagtt ccgtagtaag tctaatcata agaatatgcg tacagatcga gcatacgtct 120
ggctcattta cacgattgaa atcacaatca cagcgcaccg agctccttca gcttgccgat 180
cagaccgtca acatcctcca ccttaccgcc gccctggcgc gcaggaggtt ctgtcatggt 240
cagcatccgc tctgcattac aacaagggaa aaaagaagaa aacctaccag taaccttaat 300
tgtcttcaac cgccgcttat cctcaacccc gaaatcctcc agcttcttct tctcaagcgg 360
cttcttcttc gccttcatga tgttcggcag actagcatac cgaggctcgt tcaaccgcag 420
atccgtcgta ataaccatgg gcaactgagc acgcagcgtc tcaacacccc catccacctc 480
gtgagtcacc tccaccgtgc ccttgtcgtc cttgatctcg accttgctcg cctgcgtcgc 540
ctgcggccac cccagcagac ccggcagcat ctggcccgtc tgcccttggt caccgtcaat 600
cgcctgcttc ccccagagca ccaggttgat gttctcttgc ttcaccactg cctgcagcat 660
cttaaccacg gtcagcggct ccatgccccc gtcattgcta tcggggacct cgacgtggaa 720
aggcccggtc cgcgcccatt gcccatgctg gncggagcgt atcaacgcac ttggcttcgn 780
caacgganaa gtgccaagat ttttttcgac tttcaggggg gcccttgcgc ctcgcgggag 840
gcgggacggc cttccttgat cgagagactt aattaa 876

<210> 2259
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2259
ttccgtagta agtctaatca taagaatatg cgtacagatc gagcatacgt ctggctcatt 60
tacacgattg aaatcacaat cacagcgcac cgagctcctt cagcttgccg atcagaccgt 120
caacatcctc caccttaccg ccgccctggc gcgcaggagg ttctgtcatg gtcagcatcc 180
gctctgcatt acaacaaggg aaaaaagaag aaaacctacc agtaa 225

<210> 2260
<211> 750
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (110),(118),(146)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2260
caagcctttc cctcaacccc tttaattaag tctctcgatc aaggaaggcc gtcccgcctc 60
ccgcgaggcg caagggcccc cctgaaagtc gaaaaaaatc ttggcacttn tccgttgncg 120
aagccaagtg cgttgatacg ctccgnccag catgggcaat gggcgcggac cgggcctttc 180
cacgtcgagg tccccgatag caatgacggg ggcatggagc cgctgaccgt ggttaagatg 240
ctgcaggcag tggtgaagca agagaacatc aacctggtgc tctgggggaa gcaggcgatt 300
gacggtgacc aagggcagac gggccagatg ctgccgggtc tgctggggtg gccgcaggcg 360
acgcaggcga gcaaggtcga gatcaaggac gacaagggca cggtggaggt gactcacgag 420
gtggatgggg gtgttgagac gctgcgtgct cagttgccca tggttattac gacggatctg 480
cggttgaacg agcctcggta tgctagtctg ccgaacatca tgaaggcgaa gaagaagccg 540
cttgagaaga agaagctgga ggatttcggg gttgaggata agcggcggtt gaagacaatt 600
aaggttactg gtaggttttc ttctttttc ccttgttgta atgcagagcg gatgctgacc 660
atgacagaac ctcctgcgcg ccagggcggc ggtaaggtgg aggatgttga cggtctgatc 720
ggcaagctga aggagctcgg tgcgctgtga 750

<210> 2261
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2261
aaggtagggt ggatttgtct atataatttt agtaagtata aggtatatat ctacttccct 60
ataatagtaa taatttcaaa cagcctgttg tatttattat tgagtttctt atatagatat 120
tatattctta agtttttaa taagagtagc acctttctc taatagaaaa taagatgtcc 180
tag 183

<210> 2262
<211> 261
<212> DNA
<213> A.fumigatus

<400> 2262
gagactctaa ttactaagta taatactagg gccatcatag cattacataa tgagatagag 60
gtaataatag gctttatacc taagtataat ataggtaggg ttattcatgc tctgcagtta 120
attaattata acttatttaa gctttatatc accacaaaca tgattataag acacccaacc 180
cccgccccta aggatgagac tatggtgttt cagaacttta ctagggttgc tactaaatct 240
agtaataagg gtaagaagta g 261

<210> 2263
<211> 558
<212> DNA
<213> A.fumigatus

<400> 2263
ataaaaatgt cgcacatagc caggacagca gtgcatcgta cgacgctggc tgtccgactg 60
caatggccgc tcatccgatc gcgtttctca acctcggcgc gtcggccact gatggaattg 120
acgggcttca ctgaagaaca actcactgtc cgtgacgcca tctcagcgat cacttctaaa 180
tttcccaaca cctactggca ggaatgtgat cagaatgagc gcgatcccaa agagttccat 240
gccgcgctcg ccaaggacgg atggttagga attgctctgc cggagcactt gggaggtgct 300
ggactgggtc agtatatcca tgtttcaact ttgtcagata ctgcaatact gaccctgaac 360
aggaatctca gaagctacaa tgatgatgca gaccatcact caatctggtg caggaatggc 420
cggtgctcag gccatccatg ccaacgtgta tgccacacaa ccgctggcca aattcggcac 480
caaggagcag ctcgaggaga cgattcccaa gatcatcaat gggacatggc ggacctgctt 540
cggcgtcaca gagcctaa 558

<210> 2264

<211> 783
<212> DNA
<213> A.fumigatus

<400> 2264
acaggaatct cagaagctac aatgatgatg cagaccatca ctcaatctgg tgcaggaatg 60
gccggtgctc aggccatcca tgccaacgtg tatgccacac aaccgctggc caaattcggc 120
accaaggagc agctcgagga gacgattccc aagatcatca atgggacatg gcggacctgc 180
ttcggcgtca cagagcctaa cacaggccta gagaccttga agctcaaaac caccgccacc 240
aaaaacgctt caggtgattc ctactctgtt accgggcaaa agatctggat cacctgtgca 300
caagtcgcgt ccaagatgat cctgctcgca cgtacgaccc ccatcgaaga aatcaagcga 360
tctacacacg gtctatcaat gttctgcatt gaccttgacc gcgacaaacc cggtctggac 420
atgcgcaaga tcaagaaaat gggcggtcgc gctgtcgacg ccaacgaggt cttcttcgac 480
aattaccaga tccctacaaa cacgttagta ggagaagaaa atgaagggtt caagatcatc 540
ctccacggga tgaatgcgga acgctgtttg ctggccggtg aggcgttagg tctgggttat 600
gcagcactgg agcgcgcgac gcaatacgcg aacgatcgcg ttgtctttgg acgtcccatc 660
ggtcagaatc agggcatcgc tcatcctctg gcagatgcct acatgaagat agaagcgtcc 720
aaggggcaga cccacgtatt ctccatagga gacgcgactc cagcagttat tgaaccccccc 780
gat 783

<210> 2265
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2265
catgctcttg tctgcagcgc taccattgct tccaccttcg gtgttgctgc tggcgccttc 60
gccctcttct tcttcggtga agtgccccgt gtgcgcaacg acatcctgcg caaggttccc 120
ttccttgacg agtacttcga ccgcagcatc cctgccgagg acaacgtacg tacctttgaa 180
tcatgctag 189

<210> 2266
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2266
tccatcttat gcctaaatca agagcagacg gagtattgtg gcagcctggc ttgtcctcgc 60
tggtctagac ctgccggcaa taatctaggg cttccaccag taaagcctag ccctgccctc 120
gagaattctc tagccaaagg actcaatcgc ctatctttct tacttgcagg cgattttcgc 180
gttaagttta gaattttcgc tttcacctta gaatga 216

<210> 2267
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2267
gccagctggc gaaatgttcg gaatttgaat caccaacccg ttgtggaatc ccgaattgcc 60
gaccctaaga actcggatag tgccccaggt attccggtta aaggaataca tgctgccttg 120
aacccggcaa actccgttgc ccagtatttt tggatgaaga ccctgaacga attagaattt 180
ccaggg 186

<210> 2268
<211> 1194
<212> DNA

<213> A.fumigatus

<400> 2268
agacacgcga acatggatga gattcgtgtg accatcgacc gcgagtcggg cgagatcagt 60
gtttggaaca atggtcgcgg tattcccatc gagattcatg caaaagaagg catttacgtc 120
cccgaattga tcttcggcca tctcctcacc tcatccaact acgatgacac ccagaagaag 180
gtgaccggtg gtcgtaacgg tttcggtgct aagctttgca acgtcttctc caccgaattc 240
acgatcgaaa ctcaagactc gcgtcagaag aagaagtaca agcagacctg gaccaacaat 300
atgtccaaga tgggcaaggc caagatcacc gatgccaagg gcgaggatta cacaaaagtt 360
accttcaagc ccgactacgc caaattcgga atggagggta tggacgacga ttttgaagct 420
ctcgtcaaac gtcgtgtgta cgatttggca ggaactacca aggtcgctgt caagctgaat 480
ggtagtcgca tcccagtgcg caacttcaag aagtacatgg aaatgtacac caaggccatc 540
cgccgagaac ggggcgaaga ggacaccaac gccaaggacg aaattatcac ctgcagtcca 600
gaccctcgct gggaaattgg atttgcagtc tcggacggct cgttccatca ggtgtccttc 660
gtgaactcca ttgctaccac ctcgggagga actcacgtta actacattgc tgatcaaatc 720
tgcgccaggt tggccgacca agtcaagaaa aagaacaaga acggagcgac gctgaagcct 780
gcccaaattc gaaaccatat cttcattttt gtgaacgctc tgatcgtgaa cccagcattc 840
acctcccaga ccaaggagca gctgacaaca aagtcgagcc agttcggcag caaatgtgtt 900
cttgaagagg acttctacaa gaagatcctc aggactgaag tcatgaacaa catcctgcac 960
ttcgctcaag ccaaggcgga tcagttgttg aaaaaaacgg atggtgggcg ccgcacccga 1020
atgaacaacc cgaagttggt cgatgccaac aaggctggta ccaaggatgg tcatcactgc 1080
accctcattt tgaccgaagg tgactcggct aaaggccttg ccatggctgg gcgagcggtc 1140
gtcggacccg accttcttaa ccgccgggat gaaaggacat gcgctcccgg gaaa 1194

<210> 2269
<211> 1131
<212> DNA
<213> A.fumigatus

<400> 2269
acaaccagga acggctcccc tccctatgtg ctctctcagg tcgagaaggc gtctgcgtcc 60
gcaaccgagt tctcgaccgc tttcaacaat ttcatcgccg acggccccaa cagtccccat 120
gccgagatta tccgcactgt gtctatcttc tctggttcta ttgcggatgt gttgagcaat 180
actaagggtc tcactcgttt cgccaacgat gataagagtg cagatcagtt gctcaatgcg 240
gcgcgcaagt cggcccaggc gacggtgcgc ttcttccgcg gactgcaatc cttccgtctt 300
gagggtctag agcctctgca gaagaccgat gttgtgatca acaacaactt ggaggttcag 360
aaagatcttc agtcgttgtc gaaactggtt gacgcgtttg cccccaaaag caccaagatc 420
agtaccagcg gcgacctggg cgatctggtg gacaaagagc ttagcaaggc cgccgatgct 480
atcgaagctg cagcagcacg tttggccaag cttaagacga agcctcgcga aagcttctcg 540
acatatgagc ttcgcatcaa cgatgtgatc ttggctgctg ctattgccgt taccaacgcg 600
attgccgagc tgatcaaggc tgcgacggaa tctcaacagg aaatcgtacg tgagggccgc 660
ggcagctcgt cgcgaacggc tttctataag aagaataacc ggtggacgga gggcctgatt 720
tcggccgcca aggctgttgc cacctcgacc aacactctga tcgagaccgc agacggtgtg 780
atctccggcc gcaactctcc cgagcagttg atcgtggcca gtaacgatgt ggccgccagc 840
actgctcagc tggtggctgc tagtcgagtc aaagctactt tcatgagcaa gacgcaggat 900
cgcctcgagg ccgctagcaa ggcggtcggt gccgcttgcc gcgctctggt gcgacaagtg 960
caagacatca ttgccgaacg caatcgggat gaaggggaga ccgtcgacta tgcgaagctc 1020
agctcgcacg agttcaaggt gcgagaaatg gagcaacagg tatgtctgat tttgtcggat 1080
ctgttacatt gcttttcgcg tgcgtctctt tccaagttgc tgactcgctg a 1131

<210> 2270
<211> 444
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222>
(11),(12),(13),(17),(18),(19),(20),(21),(26),(27),(28),(29),(30),(31),(32),(33),(35),(36),(41),(42),(43),(44),(46),(47),(53),(54),(55),(56),(62),(63),(64),(65),(66),(67),(68),(69),(75),(76),(77),(84),(85),(86),(87),(88),(89),(90),(91),(93),(95),(96),(97),(115),(116),(117),(118),(119),(122),(123),(124),(125),(132),(133),(134),(135),(139),(140),(141),(142),(143),(144),(145),(146),(147),(148),(149),(150),(151),(152),(153),(156),(157),(158),(159),(160),(161),(162),(163),(164),(165),(166),(167),(168),(169),(170),(171),(172),(173),(174)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2270
ccccccccnc nnncccnnnn ncccennnnn nnncnnnccc nnnncnnccc ccnnnnccnc 60
cnnnnnnnnc ccccnnnccc cccnnnnnnn ncncnnnccc ccccccccnc ccccnnnnnc 120
cnnnnccccc cnnnnccccn nnnnnnnnnn nnnccnnnnn nnnnnnnnnn nnnnccccnc 180
ccccccccnc ccccaccaat ggtaatcggg gaatgggctt tagtcttcct ggtacgaaat 240
tttgcgcatc tctccaaggc gttgacgtgc ccgggccaga ctgttctcga gttgaaggat 300
ttcgacctat tcaccagaaa tcagcgagtc agcaacttgg aaagagacgc acgcgaaaag 360
caatgtaaca gatccgacaa aatcagacat acctgttgct ccatttctcg caccttgaac 420
tcgtgcgagc tgagcttcgc atag 444

<210> 2271
<211> 339
<212> DNA
<213> A.fumigatus

<400> 2271
atgaagctca tgagatcctt ccagccccgt ggtgaagaca ccaacattcc gaccattggc 60
gaaaagggct atggctggga gaaactggtg aaatgggcca gctgtgtgga agaattgacc 120
gagagcgaga ggcaagccac tcgactcttg gctggtctca tggagctgga cccttacaaa 180
cgattgagtg ccagggaagc tttgcagcac gagttcttca ccaaccctat tgagcacgat 240
gtggagtggg gcggacttcc tgaggatagc gcagataccg gggaggatga agaaggcgac 300
agagatgatg acgaggcgga tgaagtagcg atggtgtag 339

<210> 2272
<211> 753
<212> DNA
<213> A.fumigatus

<400> 2272
agcgcgatac cttccagccc cggcgctatg acaacggcgc aggatgagga tgatggaaaa 60
gtgtctctaa cgcgcaaggc ccatgagggt gtgtcggatg atcctcccga gattgcttca 120
cccgagcatt cgggcacttt tgtgttgcgc atcatgcctg acgataactc ctgtctgttt 180
cgcgcggtag ggagtgcaat catgggagga atggacacta tgaccgagct tcgttcgatt 240
gtcgcccaga ctattcaagc gaaccctgac gtctactcag aggcagtgct agagaaaaaa 300
gcagacgact attgccgttg gattcagcag gaaaattcat ggggcggagc aatcgagctc 360
agcattttga gcaaacattt cgatattgag atctgctcaa ttgatgtgca aacgctgcgg 420
gtggatcgtt tcaatgaagg tccgcccaca cggtgtgtcc tggtgtattc tgggattcac 480
tatgatacca ttgctttgtc gccgtcggat ccaccgtata cacacgctta tgcccctccg 540
gagtttgata ccaaggtctt tgatgcagcc gatccggtag ttctggagaa agcgctggcg 600
ttatgtgaga ttctccagag gaaacattac tatacagata ccgcaggctt tcgcattcgt 660
tgcaatactt gcggcggtat tttcattggc gaaaaaggag ccaccacgca tgcgacgcag 720
acaggacatt ataatttcgg cgaagcaagc tga 753

<210> 2273
<211> 207

<212> DNA
<213> A.fumigatus

<400> 2273
tttcgttttt tccataatga ttatttttctt ctcatacggc ttggttccat agaagtatca 60
agccttttct attcacttat gtttttttttc ccttttttttc ttttttataa aaaccacatt 120
aatattcttt ttttatttat tttatttttat tttttttttaa tctttaactt ccgtcttcac 180
cacgaggctg ccggatccgc aataagt 207

<210> 2274
<211> 843
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (634),(757),(819)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2274
gttttctgct gttttccagc ccttgaacgc ctgcatgcgt tgaaaagagc cggatcccag 60
atcgccatca actcccgtga ggctgtccgc ttcctcgatc gagtcacttc cggcaaagat 120
aatattcctg ccgatagcat cgttctccaa ggccccatgg agcagtacga gaattgggaa 180
gaggcggaga agttctttct gccggagttt gaggaggaac ccgaggcgcc taacggagat 240
gacacggagg agcagtcgcc ccgggagacg ccagccgaga agatgaagag cagcaccaag 300
aaaaatggcg cggccccgga tgatctgtcg cagatgcttc ttaacaagct caacttcaag 360
accgaatccg acgccgcgtc gattccctcc gcgggtacgc acagcaatcc tgcctcatcg 420
ccctcgtcga gaagttcgcg cacaagcccc gaggactcca atctgcgcac ggctgcagac 480
aatagagtaa caaatgaggc cactttaaag attgagagcg gacatcggcg cactgcctcg 540
gggtctgtgg ttcctacagt cccggtagta ctccgtccgc ttctcagtgc cattctatgg 600
cgcctgcaca gtggtcccga tgccactaat gcancgaaag cttgtattct cgtcacaaat 660
gataaggtaa cgggattgtg ggctcaaaag ttcggtattg ccgtcaagaa catccatcaa 720
ctacaaactt cgatccagta tgaagaacga gagttcnaga aacgttgcaa gttcgttgag 780
aagaatcagg tgtctgaacc gaaatcgttg ctcctcgtnc gaaggaccaa agccacaagg 840
atg 843

<210> 2275
<211> 231
<212> DNA
<213> A.fumigatus

<400> 2275
agatcattga gagccatgtc agccggacgc aaggtcttcc attgtgccgt ggatgaaacg 60
gccctaacca ccaacatcag cgaaatcaaa agatggacca caagcggcgc cattaccctc 120
atcgtccctc tttacagtaa gtacattgat ttccgagacg ccattcctcc gtcccgctcg 180
ctcattaggt tttctgctgt tttccagccc ttgaacgcct gcatgcgttg a 231

<210> 2276
<211> 462
<212> DNA
<213> A.fumigatus

<400> 2276
caaggagacc cgccgactgc agaagatcta cgggcgcgag gagcagcagg tgcgcgccag 60
cagcgtgaac cttgcgcgtc ctcctgcgca gccgccgcgt cctccagcac ctcctcggca 120
gcagcaaccg catccccctc cgcggccgaa tgcgcgatac tactaccatc agcaggcacc 180

gtccatgttg catctgacgc cgggcccggt tgcgactccg cctcgaccgc actcgacggt 240
gcattccctg cagccgccgc agccccagga ccagggtcag cagccgccga caaaagagta 300
gtttctttgg gttccgacgg tcgtcggacg attcgaaggt gcataaaaag cgcagctcga 360
tgttttgata tgatacccgt gcattactgg agtgttggcg taaggcatac cgatagcact 420
attgatacta ctatactcat gaggctcacg catgtacgct aa 462

<210> 2277
<211> 669
<212> DNA
<213> A.fumigatus

<400> 2277
cccccacgct tgattttcca gccggctggt gaagatggga aggaacctgt ggctgatccg 60
acaggcagtc ctgtcaatgt tagtgctagc ccaacggtac agagtggtgc ggccctgcag 120
aatcagaagc ctgcggcggt cgccccgaat gcaaaggcca acgacaagca gcctgcatcc 180
tcgcgcccag cagagactca agtcacgaag ccaagcccaa cgccagcgcc cgcccaagcc 240
ccagctccaa cgcagcagca gaagacgaag aagaagcaag aactgtcgcg caaggaggag 300
gaaaaacgga ccaagaaaag actggaagaa gaggagaagg ctcgtcgcaa gcgccaggcc 360
gagattgaca aggagacccg ccgactgcag aagatctacg ggcgcgagga gcagcaggtg 420
cgcgccagca gcgtgaacct tgcgcgtcct cctgcgcagc cgccgcgtcc tccagcacct 480
cctcggcagc agcaaccgca tccccctccg cggccgaatg cgcgatacta ctaccatcag 540
caggcaccgt ccatgttgca tctgacgccg ggcccggttg cgactccgcc tcgaccgcac 600
tcgacggtgc attccctgca gccgccgcag ccccaggacc agggtcagca gccgccgaca 660
aaagagtag 669

<210> 2278
<211> 423
<212> DNA
<213> A.fumigatus

<400> 2278
ttttccagcc ggctggtgaa gatgggaagg aacctgtggc tgatccgaca ggcagtcctg 60
tcaatgttag tgctagccca acggtacaga gtggtgcggc cctgcagaat cagaagcctg 120
cggcggtcgc cccgaatgca aaggccaacg acaagcagcc tgcatcctcg cgcccagcag 180
agactcaagt cacgaagcca agcccaacgc cagcgcccgc ccaagcccca gctccaacgc 240
agcagcagaa gacgaagaag aagcaagaac tgtcgcgcaa ggaggaggaa aaacggacca 300
agaaaagact ggaagaagag gagaaggctc gtcgcaagcg ccaggccgag attgacaagg 360
agacccgccg actgcagaag atctacgggc gcgaggagca gcaggtgcgc gccagcagcg 420
tga 423

<210> 2279
<211> 549
<212> DNA
<213> A.fumigatus

<400> 2279
tgcacgggta tcatatcaaa acatcgagct gcgcttttta tgcaccttcg aatcgtccga 60
cgaccgtcgg aacccaaaga aactactctt ttgtcggcgg ctgctgaccc tggtcctggg 120
gctgcggcgg ctgcagggaa tgcaccgtcg agtgcggtcg aggcggagtc gcaaccgggc 180
ccggcgtcag atgcaacatg gacggtgcct gctgatggta gtagtatcgc gcattcggcc 240
gcggaggggg atgcggttgc tgctgccgag gaggtgctgg aggacgcggc ggctgcgcag 300
gaggacgcgc aaggttcacg ctgctggcgc gcacctgctg ctcctcgcgc ccgtagatct 360
tctgcagtcg gcgggtctcc ttgtcaatct cggcctggcg cttgcgacga gccttctcct 420
cttcttccag tcttttcttg gtccgttttt cctcctcctt gcgcgacagt tcttgcttct 480
tcttcgtctt ctgctgctgc gttggagctg gggcttgggc gggcgctggc gttgggcttg 540
gcttcgtga 549

<210> 2280
<211> 297
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (217),(223),(249)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2280
ctaacctggt cgttttcagg cgctccgctc atgtccgatc ccgcaatcca ggagatggct 60
aagaaatacg gtgtttcgcc tgccacagta cttatcagct accatgtcaa ccgaggcgtt 120
gttgtactgc ccaagtctac tcaagagaat cgaatcctga gcaaccgcca agtcatccct 180
ctctctcccg aggatatgga tgtgctgaat ggcctgnctg cancaaggaa ggcgaagcgt 240
atcaatacnc ctctgtttgg atgggatctc ggtttcgatg actggtacca acagtaa 297

<210> 2281
<211> 366
<212> DNA
<213> A.fumigatus

<400> 2281
aagcgctgga ccttccagcc gcgtggtgaa tacgagacga gcgagctgct accggtcaat 60
cccgatggca cacgatccgt cgaccgatcc tgggatcaga gtgagacctg gcgccagatg 120
gaggagatct acaaggccgg caaagtgaag gcgattggcg tggccaactg gtcgattccc 180
tatctcgagg agctcaaaaa gaagtggacc gtggttcctg cggtcaacca agtcgagtta 240
cacccttcc ttcctcagca tgcactgaag gagtggtgcg acaagcatgg cattctcctc 300
gaggcctatt caccgcttgg ctccgaaggt gaatgcccct ggacacgcta tgtgcggttc 360
ccatga 366

<210> 2282
<211> 1146
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1),(2),(3),(77),(1126)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2282
nnngatcgct tcaaggagat cacttcttcc gcaatataca acccaagcgc caaacggttt 60
gcttcccaga tgacccngac ccccaaagga atccccatta aaaagcccag acagagtgcc 120
ctttcccgcg cgcaaccagt ggaggtgtcc gttacatcat tacaagacat tcaagattac 180
cagatgaggg tcaaagtgga gagaatgttg aaagtgatgc cgcagaaatc ggtccaagct 240
tgcatgcaag ctcttgtgtt caagcgggga aattatgagg atgcattgga tcatctggca 300
aatacggagg aacgggatgc acctggttca tcggacgatg aattgattac agctcaacaa 360
gctgaacaga tcgcaccagc gaagcaaaac attaaagctc gagggacaat ccaggataag 420
tggtcggcca tgaacttgca gaagaacctg gcaagccaga aggtccaatc gcagtcgcaa 480
ccacaaccgc tgaacgagga agaagcaaag ccacggagac gcctgatgag aggaccaaag 540
agtcgtggta tttccccaag tcctgctcgt tccgagactc ctcccaagaa aaagcctgga 600
cgactggtac agggacggaa gcagccttcg cccgcacgtt cggaatcacc tgaagcacct 660
ttgatcatga ctgacgactc tgattctggt gttggcgacg cattggaaaa tgtggaatcc 720
gagatcaagg ttttgaggtt catcaacacg tgtcaggctg tagagcttgc agatctggct 780

gcaacgacag aggatgttgc ccaagtcatc atctcccacc gtccatttag gtccctagac 840
gaggcccgcg ctgtacccgc tccatcaacg gagcaaaaca caaaaccaag gggcgccagg 900
ggcaggaaga cgccgaagcc aattggcgac aagatcgtgg acaaatgtct cgatatgtgg 960
gtgggttatg aagcggtgga ttctttggtc gctaaatgcg aagcgcttgg acgccccgtt 1020
gcagcagaaa tgaagaactg gggtgttgat atctttggaa agcgggaacg tgaattggat 1080
ctggtatcga ttaaccaaga gtcgcacgat tctggcattg gggacnccgc tagttcggcg 1140
ttctga 1146

<210> 2283
<211> 195
<212> DNA
<213> A.fumigatus

<400> 2283
cttagcaatt accccattct tttgggtctc ttctttggct ctttctcgaa gcactttacg 60
caaaattttt ccaaaggggt tcttacgaat ggcgtcgaca aaaactaccc caccagttat 120
tctcttgatc gcagacactt tgccatccat gaaagcgaca atgtcgttcg cggcagcgtg 180
gtgccctggc tttag 195

<210> 2284
<211> 282
<212> DNA
<213> A.fumigatus

<400> 2284
atcgaccaca aaatgagacc caaggctaac gctagttacc tgaataggaa tgacgacgag 60
cgtcctcgag cgtatattgt gctaaagcca gggcaccacg ctgccgcgaa cgacattgtc 120
gctttcatgg atggcaaagt gtctgcgatc aagagaataa ctggtggggt agtttttgtc 180
gacgccattc gtaagaaccc ctttggaaaa attttgcgta aagtgcttcg agaaagagcc 240
aaagaagaga cccaaaagaa tggggtaatt gctaagctat ag 282

<210> 2285
<211> 360
<212> DNA
<213> A.fumigatus

<400> 2285
gctaattatt atgtctctaa cagaaccacc tgttcgatat tgggctggaa cccaagtgaa 60
aagagctata gtgcgtcggt tggagagtta aacgcgaact gtgaagcgaa aatcatggcc 120
gacgacggag taacagagta tggacacaac caacgcggcg agctctgggt gcgagccccc 180
aatatcatga aaggctactg gaagaaccct caagcaaccg aggaaaccaa gacggccgac 240
ggatggctga aaacagggga tattgcatac gtggacgaca acgggaggtt ccatgtcgtc 300
gaccgcaaga aggttagccc aaacttcccc acagaaccca tgctgaatga ctttggctga 360

<210> 2286
<211> 723
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (302),(437)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2286
tatcgtgaca ggttgtcatt cgcaagattg atacttaatc acttaactct ggttcataat 60

ctcttctggg aggaatatac atacgatgcc tatcaccggg tagatgtgtc tcgagttctg 120
gttctagcca ctaacgctaa ctcctcatgc agagtcttct tcattcccgc aaacccaaat 180
gcctctacag ctctcgcgac catcacagaa cggttgcact ccgccgtcgc agaggagcct 240
gttgcaatag gccgatgggc attggagcat aagttgatga gggatactcc ctcctgcgtg 300
cntgggtcag ggccccagcg acacgctcac cctcgataca tgcaatttct atcgttatcc 360
tactacccca atcacgggtt catctacacc tctcagcctc ccgagaagac ggcgcaatct 420
cccgccccga atgctgntac tccccaaact ggactcaccc ctgctttggg ttcagccact 480
ccaagcaatg ccgcggcagc gggcggttcc ggcatggtta tgatcaccgt gcctctgcct 540
tcttccggag ctctgttcaa gcactttgtt tacgcctgcc aaccattctg gtgccatcga 600
catacagtag ctgtaccggg gggcatggtc tatgatgttg gcgatttccg agtgcgtatt 660
ggcgacgtgc ggcagacgca gcgtcttcac cacggagact ggcaggatcc gagcttaagg 720
taa 723

<210> 2287
<211> 957
<212> DNA
<213> A.fumigatus

<400> 2287
agactcacca actacagcag tgctgttttt cagcaaaccg actttgcggc agactttact 60
gaatacgaca tcatccagac cagtatcacc accggagtgt cgatactccc atggacgagt 120
gccaaccgct ctttcgttcc catcacgatc aaggatccgg attctgatgc tctgtacggg 180
gccaacacgc tgggtatcgg agcggacctg gcatgtgaag agttgtctat cgctgatagt 240
ctggttgtga atccccagaa tggatctgct tattgggaat atcagacatt tgacgatccc 300
agcaggcact gtaaagtcga catgagcatg ctgcagcatc cacatgagaa cattacactt 360
tccattcact ttttgtctcc tgtggttacc gaagacgaca cgtatgattg tcagacatcc 420
actgtggtgg ttctgggtcg gtggaattac actgccgggt cgcccataac cgacaaaaac 480
actattgctc tgcactgcga acccagaatc aagttggaaa actactcgat cactttcgat 540
acgaaaggcc aaatccaaga tttgagccct attgccggta cagccatcac atctggcccc 600
atgtacgaca atgcgaccat cagcgtggga cagttcaaca aggtctttgc cgccatcccg 660
cagagctaca tcagcaattc gacttatgat cgcaagacat acatcacgtc gtatgactgg 720
gccggtgtcc tagttgcacg tttgtacagg cgtcgagatc cggggtttat ggctctaaac 780
cctgatgacc tgatggacat gtccagaatc gtctatcagg gggtctatag cactttattt 840
taccaatctg gaggggggat taaccttcag cccgttggac aaaccggagg ctggttcgga 900
actctaaggg ggatcttcga cccatgggac catgggaacc ggcattcccc tctttaa 957

<210> 2288
<211> 1116
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1116)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2288
tataggatac caaacaaccc gggggaacac caaccagcca gtgggattac cggtgaagcc 60
ggaattggac ccatgggaat cggtacaaaa aattctgggg aactggccag gcagcatatt 120
gatgagcaag ccacctctgc cattccaggc taccgagcgg gcaccagggt tgccaagcgg 180
cgcaccgcag ctctcggaca acggcttccc atttcttcaa tactaggaca agatttaccg 240
ccgacggaga ttatgtactc gttgcttgag gactactttg atgctgtcca ttggttttct 300
ctggctattt atgaacctac ctttcgcagg aaactcctgt ccgtagccga cgggtttgcc 360
tatccctccc agaaatcatt cttgctgctc cttgcagttg tactgggtat gggggcgtgg 420
tatcgatctc aaaggaggac gactgactcg accgacaatg gcgattggca acaattgagt 480
gcaaacctct tgaagatcgt cgagtcgcat gttgttgagt tgatggacca accttccgtc 540

acagcggccc agatatgcat ccttttcgga tcacaccacg tctatcacgg gcgtccgaat 600
ctctctttct ccttacttgg tgcgactatc aagatatccc aggcggcagg gctgcaccgg 660
gaactcccga ggggcaactt tgaggatatt gaagaaagga aacgtgtatg gtggacgatt 720
tacacgtggg atcgatttgc gtcgatcaca tacggccgac cactaggaat caacgacaag 780
gactgcaatc tcaacatgcc ggcggataca ttcgaaaatc cctactttgt tgcaccgaga 840
tcagagcagg gatataccgt ctgttactct acttatcaaa gggagttgaa tcgtctctac 900
cttatggcgt ccactgccct ggaggtaatt ttcggctcgc ggacatccgg ctcgtccgag 960
gagctggcgg gggacgcata cgttgcgctc gtcaaagaag cgactcaaaa ccttcggaga 1020
tggcgggatg aattaccgga gcacctagtc ctagacctcg agagggattt cccgcctgac 1080
aggtcttcac cacggggctg gaaggatcga cggtgn 1116

<210> 2289
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2289
agatacaggc ctctatctaa ctttttttata aagagtacta gtattactat aaggctagat 60
aattccctaa tctacccctt cttaagtatt ttattaaggt atttacacag agcctctagc 120
tctagctata atatagtaaa taggggggcta tatagtagca acttcctatt aagtagctat 180
atcttataa 189

<210> 2290
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2290
ttgattatct cttcccctgc caagcacgtt gtgtgggaca ccctccgctc ttcagggaca 60
ccgtctgatc atagttccgc acctaagtgg gcttgcgacc aggaggtatc tgtgactaag 120
gctccccctc accgctccgc gttgagggtg agccacagcg aaaccaccaa ccacaccgaa 180
tccaccattt ttcgatag 198

<210> 2291
<211> 732
<212> DNA
<213> A.fumigatus

<400> 2291
gacgccaaga aacgtttgtg tggcatccag ccattcggtt ttgtagctgc tgaacgcatt 60
gaggaactcc tggatcccga tcacggcgat ctgatcgtca tccaagcccg tgaaagagcc 120
cccttcaccg gtggctccac tccaatcggc gaccttcgcc gtgcactcca caccgctgca 180
gtctcgtccg gattcaagcc cgctcccacg gggttcgact tcctatgggt ggtggacttc 240
cccctattct cgccctctag tgattcggaa ccaggccaag gcggtgcagc tggcatttca 300
tccacacacc acccctttac ggcccctaag accgccgcag acgtcgacca gctcctgaca 360
gatcccacaa aggcggtggc cgaccactac gacctcgtcg tgaacggagt cgaattgggc 420
ggtggcagtc gccgtatcca cgacgcagcc gtgcaggaat tcatcctccg agatatcctc 480
caaatgaagc ccgaaaggct ggccgacttt tcccatctgc tggatgcctt gcgggcggga 540
tgtccgccgc atgctggact ggcgctcggc ttcgaccggc tcgtcgctgt catgctgggc 600
aaggagtcgg tgcgggacgt cattgcattc cccaagacgg gtaagggtgg cgatgatgcc 660
atggtcaagg ctcctagcat gatgacgaaa gaagcattag aaacctacca tcttcgttta 720
aaggatgaat ga 732

<210> 2292
<211> 237
<212> DNA

<213> A.fumigatus

<400> 2292
gaagtcgaac cccgtgggag cgggcttgaa tccggacgag actgcagcgg tgtggagtgc 60
acggcgaagg tcgccgattg gagtggagcc accggtgaag ggggctcttt cacgggcttg 120
gatgacgatc agatcgccgt gatcgggatc caggagttcc tcaatgcgtt cagcagctac 180
aaaaccgaat ggctggatgc cacacaaacg tttcttggcg tcctacacga agacacc 237

<210> 2293
<211> 492
<212> DNA
<213> A.fumigatus

<400> 2293
ctgggtggca ttctctttgc atggcagttt cctcatttca atgctttgtc ctacatgatc 60
cgtgaagagt acaaggcagc cgggtacagg atgctcgctt ggactaatcc cgccgcaaat 120
gcccgtgtcg cactacgata ttctcttctc atgtttccat tctccgtcgg tctctggtgg 180
gtaggagttg tcggtaatgg tttcctggtt ggaagcacgg tggccaatgg ctggctagtc 240
aaagaggcct acaaattctg gcggcaccaa ggcgccaacg gcagtgctcg acgcctcttc 300
tgggccagta tttggcagct gccaatcctc cttgtcggtg gtctggtcac gaagaaaggt 360
ctctgggatg gtgtctggaa caatgttttc ggtcagcctg tggaagacga ggatgactat 420
ctctgggagg atgaggatga agtggcagag gcggagcgca ggatgatacc tgcgaagacg 480
agtagctcgt ga 492

<210> 2294
<211> 195
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (66)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2294
gttctgtatc acaatctact tgcacttacc caagactata tcggtgtttc tatgagacaa 60
ctattnacag atcgccccaa aaaagcccgt gagaagagat tgggtatcat gtctatccta 120
atgtacaatt cagctgagcg gcctgcggca actgcatctt catacactca ttcatccttt 180
aaacgaagat ggtag 195

<210> 2295
<211> 318
<212> DNA
<213> A.fumigatus

<400> 2295
gtttctaatg cttctttcgt catcatgcta ggagccttga ccatggcatc atcgccaccc 60
ttacccgtct tggggaatgc aatgacgtcc cgcaccgact ccttgcccag catgacagcg 120
acgagccggt cgaagccgag cgccagtcca gcatgcggcg gacatcccgc ccgcaaggca 180
tccagcagat gggaaaagtc ggccagcctt tcgggcttca tttggaggat atctcggagg 240
atgaattcct gcacggctgc gtcgtggata cggcgactgc caccgcccaa ttcgactccg 300
ttcacgacga ggtcgtag 318

<210> 2296
<211> 783
<212> DNA

<213> A.fumigatus

<400> 2296
gcccagtctc ctcagactgc agccgccgcg aacccacaat ttacatatcc tgcaccctat 60
gcaggaaccg gctctccatt tccccaggcg gcaagccccg tgtatccaaa tttctcacca 120
ggtgcacaag cacagtaccc tattcagcat acacctactg gatacactcc gcagccatat 180
ccggttggta ctgctccgca agctacccca ccctatggga caacgccgcc tccttttccg 240
ctaccaccgc atcaacaagc ttccccctca cacacagtcc ctcaaactgc gccggcattc 300
ccacaacgtt ctggtagctt gccggccgca cctagcctcc cacagcgccc cgctttccaa 360
cccccgccag ttaatgccta tcaaatgcaa caaatacaca tgggccaccc tcttccgaat 420
gctggagtgc atactgctgt tccggatggc ggaagggcac caggagcgga agctgcatcg 480
atatcatctt cagtcaatga ccttgtctct ggggcagcga aggaagctga ccaggccacg 540
gccaaagctg cagctagtgc aggtgcaacc actgaagaga agccgtcgaa gaaggacaag 600
ggcaaaccga cacgcttggt atactctgat aatgaaacca gtccggagga aaagatggct 660
agattgtcaa ggtacgcatt tgttcctgac cgcagaggag aaacgacact tgaagagctc 720
cctgctgctg tagtagtggg gactatccgg gagtcagaca agattttcga ttctgcacag 780
tga 783

<210> 2297
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2297
gatgcatgta acatgattat caacgcccgg ccaaataacg acttatgcac cgagtctatg 60
cccaagttct ccgatatcaa caacactggg tatcttgcca tgtttctatt actgaccagt 120
acgcaaacag atagctcagc acagtcgtgg gtatcgaatg tgtgcggcaa tctgatcagg 180
cgacggaata tcttttga 198

<210> 2298
<211> 618
<212> DNA
<213> A.fumigatus

<400> 2298
cgcggtcggg cagctcccgt ggtgaaaacc atggacaaaa atatacttga cggtcttctc 60
gacctggaag atgaattcta ccaagagggc tataacttgg gtgcaactga cggtgcccag 120
gctggttaca ctgaaggaag cgtgtttgcc gttgagaaag gcttcgaaaa gtttcttgaa 180
ttgggaagac tatatggcaa agcactcgtc tgggcccaga ggctcgcaga ctctgaaatc 240
tctcggaatt cgtcacagga gagtgacgga acagataccc gcaaatctca gccatataat 300
gagggtgatc ttctcttgga accattcgta tgcaaggaga tgctgcctct cccctccagt 360
tcacggctgg ccaaaaacct cgagattcta ctcgaattag ttgatccagc ttcgttgcct 420
atggagaaca cggaagaagc tgtcacagat gttgatgagc gtcttaaggg cgctgcaatc 480
aaggccaagc ttatccagcg agcgcttgga gagcgggagg gcgcatcaga catccatcct 540
gacgtcaagg atacccaggt agccggtgat ggaacaggga gcattgaaga tattagttca 600
ctgaaggttc gccattag 618

<210> 2299
<211> 1068
<212> DNA
<213> A.fumigatus

<400> 2299
tatccccgcg atggtctttt aggccgtggt gaagagcaaa aagagtccgc tgaagccaga 60
accgagctcg gtctgaccgg gaggaagacg atcgtgttct gtgatgagat ccatcgcttc 120
tcaaagtcac agcaggatgt gttcttaggc cctgtagaaa gtgggcaaat cacactcatt 180

ggcgccacga cggagaatcc gtctttcaaa gtccagaatg ctctcctttc gagatgcagg 240
accttcacat tgtcaaaatt gagcgacgag gacgtcaagt ctatccttga ccgagctttg 300
agagttgagg gtcccaacta ttcaccgtcc tcgctcgtag atgatgagtt gattgaatac 360
cttgctcgct tttctgatgg agacgctcga acatctctca acctttttgga gctggctatg 420
gacttgtcga aacgtcccag catgaccaaa gaagaattga agcgatccct taccaagact 480
ttggtgtacg accgcgcagg ggatcaacat tatgacacaa tctcggcctt ccacaaatcg 540
atccggggca gtgacccaga tgctgctcta tactaccttg cacgcatgct gcagtctggc 600
gaagaccctt tgtatattgc gcggcgtcta gttgttgtgg cttcagaaga tatcggcttg 660
gcagacaaca gcatgctgcc acttgccatt gctactcact cggctgtcga aaagatcggg 720
cttccagaag cacgtatcaa cctcgcacac gctacagtag ccatggcgct ctctaagaag 780
agtactcgag tgtatcgcgc cttgaacaat acttttgcag cgttggcgga gccgggggtt 840
gcgggattgc ctgtaccaat ccatctgagg aacgccccca ctcgactcat gaaagagttg 900
ggatatggaa aagagtacaa gtacaacccg aattacctcg atggtcaggt agtgcaagac 960
taccttccag agaaactact tggccggaaa tttcttgaag accgagacct gggcactaag 1020
attgaccctg atctgatagc tcaggatgaa cggcacctgg agccttga 1068

<210> 2300
<211> 786
<212> DNA
<213> A.fumigatus

<400> 2300
cacaatgata aggtccaaga gatatctata gattattcag aatgcgcaga aaaggcccct 60
tcttacccag tctcaattgc cgaccgagtt aagtcatcat tcaagtcatc gactggacag 120
tctaccccga catgggagcg tcgtatagag aacgggacta ccatttgtcg attgagtttc 180
gaagtaccgg acgatttagg gcctcccgtt ttcctgtact atcgccttac caacttttac 240
cagaaccatc ggcgatacgt gaagtcattg gatatagatc agttgaaagg caaagctgtg 300
gacaataaga ccatcgacgg tggctcatgt gatcctctta aacttgaccc tactggaaag 360
gcctattacc cgtgcggact cattgcgaac tcacaattca atgacacaat acacagccct 420
gaactcctca gcgacttaaa cccgacggtg tacttcatga ctaacaaggg catcgcctgg 480
gatagtgata aggaacttat taaaaccaca caatacaagc catgggaagt tgtgccgcca 540
ccgaattggc atgatcgtta tccgaatggg tatattgacg gtatccccga ccttcatgaa 600
gatgaagact tcatggtttg gatgaagacc gctgcgctac cggctttcag caaactgtcc 660
cgcagaaatg acagcgcgcc tatgaaagct ggctcttatc gcctggatat tgaagatcgt 720
tcgttcgcgc tatgcaatac accttatcaa ctggctaatt gggctctaag ggtttccggt 780
tactga 786

<210> 2301
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2301
acatctcatg ccctgaaaac cctcctgatt caacgactaa acaacctgag tctagcacct 60
gtagatgcct tatctacagc tgaccctcac ttaactcgca gtggctcggg tttggtccct 120
aacctaggaa ttacactggt tttggtttca gttagcctac tggttatctg caccagccag 180
ctgaaaggac aagcgtgg 198

<210> 2302
<211> 549
<212> DNA
<213> A.fumigatus

<400> 2302
tggtgcggca ccttccagcc ccgtggtgaa gacgaacccc gcgcctgtcg gaggctcgca 60
cacagacgca aatactcacc cattgctagc acacagatct ctgaaccgca ccgcctcttc 120

gggaggaaga tcgaccatga tgaacccatt gacaccggcc tccttacaat ccttgagcat 180
acgctcctca ccgtaccgca agacagggtt atagtagccc atcagaagca acggggcctt 240
gaggcctctg cttctagctt gacggaccat gttcagcact gtggtgaccg tgacgccatt 300
ggccagagcc tgggtgttgg ccctctgaat ggtggggcca tctgcgatgg gatctgtgaa 360
gggaatgccc agttcgatga tatctgtcga aatccaacgg attgcgttag cattgaggct 420
tcctggtccg gggtccggga gtgcgaatgt gagggtgcgc ggcggggtaa ggagccatac 480
ctgcgcctcc attttctagc cccagaagaa tgtcaactgt ctcctcgacg gtgggatagc 540
cggctgtga 549

<210> 2303
<211> 240
<212> DNA
<213> A.fumigatus

<400> 2303
gctgtttccc gctccccatt cacacacgcc atggaaggaa tcaagagcac ttttgccagg 60
tgccaagaac agaagcgcgc agcactcgta gcgtacatca cagccggcta tcccaccgtc 120
gaggagacag ttgacattct tctggggcta gaaaatggag gcgcaggtat ggctccttac 180
cccgccgcgc accctcacat tcgcactccc ggaccccgga ccaggaagcc tcaatgctaa 240

<210> 2304
<211> 420
<212> DNA
<213> A.fumigatus

<400> 2304
aaaatggagg cgcaggtatg gctccttacc ccgccgcgca ccctcacatt cgcactcccg 60
gaccccggac caggaagcct caatgctaac gcaatccgtt ggatttcgac agatatcatc 120
gaactgggca ttcccttcac agatcccatc gcagatggcc ccaccattca gagggccaac 180
acccaggctc tggccaatgg cgtcacggtc accacagtgc tgaacatggt ccgtcaagct 240
agaagcagag gcctcaaggc cccgttgctt ctgatgggct actataaccc tgtcttgcgg 300
tacggtgagg agcgtatgct caaggattgt aaggaggccg gtgtcaatgg gttcatcatg 360
gtcgatcttc ctcccgaaga ggcggtgcgg ttcagagatc tgtgtgctag caatgggtga 420

<210> 2305
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2305
ctctgtgata ccccctcccc cccctccct atcagtcgcc atatccaccc ccccaccatg 60
tctgaccttt acgccactat cgaaactccc cagggcaaat atgagcagcc cttgggtttg 120
tatgttttcc ccctgcattc aatcgtcact tactctattc ttcatgtcgt tctaattgct 180
tctcgttcct ag 192

<210> 2306
<211> 660
<212> DNA
<213> A.fumigatus

<400> 2306
ttgcttctcg ttcctaggtt catcaacaat gagtttgtga agggtgttga aggcaagacc 60
ttcgagacca tcaaccccgc caccgagcag cccattgttg ctgtccacga agccactgag 120
aaggatgtcg acattgccgt tgccgctgct cgcaaggcat tcgagggtcc ctggagacag 180
gttactccct cggaccgtgg ccgtatgctt aacaagctgg ccgatctgat ggagcgcgaa 240
atcgagaccc tcgctgccat tgaggccctt gacaacggca aggccttcag catcgccaag 300

ctggacatgg ccggtgctgc tggctgcatt cgctactatg ctggctgggc tgacaagatc 360
cacggccaga ccattgacgt caaccctgag acactcacct acactcgcca cgaacccatc 420
ggtgtctgcg gtcagatcat tccttggaac ttccccatgc tgatgtggtc gtggaagatc 480
ggtcctgccg tcgccactgg taacactgtt gtcctcaaga ccgctgagca gactcctctg 540
tccgccctct atgccgccaa gttgatcaag gaagctggct tccccccctgg cgtcatcaac 600
attatttccg gcttcggacg tactgctgga gctgctattg ctagccatat ggacgtcgac 660

<210> 2307
<211> 336
<212> DNA
<213> A.fumigatus

<400> 2307
cgaatgcagc cagcagcacc ggccatgtcc agcttggcga tgctgaaggc cttgccgttg 60
tcaagggcct caatggcagc gagggtctcg atttcgcgct ccatcagatc ggccagcttg 120
ttaagcatac ggccacggtc cgagggagta acctgtctcc agggaccctc gaatgccttg 180
cgagcagcgg caacggcaat gtcgacatcc ttctcagtgg cttcgtggac agcaacaatg 240
ggctgctcgg tggcggggtt gatggtctcg aaggtcttgc cttcaacacc cttcacaaac 300
tcattgttga tgaacctagg aacgagaagc aattag 336

<210> 2308
<211> 681
<212> DNA
<213> A.fumigatus

<400> 2308
gtcgacgtcc atatggctag caatagcagc tccagcagta cgtccgaagc cggaaataat 60
gttgatgacg ccaggggggga agccagcttc cttgatcaac ttggcggcat agagggcgga 120
cagaggagtc tgctcagcgg tcttgaggac aacagtgtta ccagtggcga cggcaggacc 180
gatcttccac gaccacatca gcatggggaa gttccaagga atgatctgac cgcagacacc 240
gatgggttcg tggcgagtgt aggtgagtgt ctcagggttg acgtcaatgg tctggccgtg 300
gatcttgtca gcccagccag catagtagcg aatgcagcca gcagcaccgg ccatgtccag 360
cttggcgatg ctgaaggcct tgccgttgtc aagggcctca atggcagcga gggtctcgat 420
ttcgcgctcc atcagatcgg ccagcttgtt aagcatacgg ccacggtccg agggagtaac 480
ctgtctccag ggaccctcga atgccttgcg agcagcggca acggcaatgt cgacatcctt 540
ctcagtggct tcgtggacag caacaatggg ctgctcggtg gcggggttga tggtctcgaa 600
ggtcttgcct tcaacaccct tcacaaactc attgttgatg aacctaggaa cgagaagcaa 660
ttagaacgac atgaagaata g 681

<210> 2309
<211> 546
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (333)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2309
cagtcaaaga cgcccacgac caaagtcctc gatgtcaatc tcacgggctg tctctacgtt 60
gctcgtatcg ccagcgtgta cttgcgccag aaccgcccgg aaaatgcaga tcggtcaatt 120
actctcatct cctcggtcgc tggattcaag gaatctcccg ggatgtttgt ctaccaagcc 180
tccaatcatg gagtgcttgg gctgatgcgt tcgctgcgtc tgtacctgtc gtccccaact 240
catcatatcc gagtcaacgc catctgccca tggatgacca ccacggccat ggtcaaaggt 300
gtgcaagaag cttggatgaa ggcaaaacta ccntgcaaca cccccgctga cgttgcgtac 360

attatcgccg gtgtcctggc ggattcagcg ctcaacggca aatccatgta cgttgaaggt 420
ggccgagctt gggaaattga agcgaacatt gatcgactag aacctcagtg gttgggtgaa 480
gaacagtcac gatctctggc gcaggggcag gcagtgctcg gtagtggcat ggattgggct 540
caatag 546

<210> 2310
<211> 567
<212> DNA
<213> A.fumigatus

<400> 2310
tgggaagctc tcttctggct catatccgac ggtgcctcgg ttctacccgt caacacttcc 60
aagatggcga caggaggctc gtcagctggc ggcaatctgg cttccatcat cacacataaa 120
gccctcaccc tctcgccacc cgtacgcttt cacgctcagc tgctctccgt tcccgtcatg 180
gacaacacag cgaccgtaga caacaacgag tcctatcgcc tgtatgagca caccccggct 240
ctccctgccg ccaagatgat ctggtatcgc aaccattacc tcccgaacat agcagatcgc 300
gccaatcccg aagccagccc tctcttttat gatgatgact ggtcgcaact gccgccggcc 360
ttaatcatgg tgggagaact ggacgtcctg cgcacagagg gggagcagta tgcggcgaag 420
ctgaggaaga cgggcgtgaa ggtggatctg caggtgatga aggggatgcc gcatccgttt 480
ctcgccatgg atgcggttct caaggagggg aggcgatcta tcaccttgat gtgcgacacg 540
ttaaagagga ttttttggga gtcatga 567

<210> 2311
<211> 747
<212> DNA
<213> A.fumigatus

<400> 2311
aaagctgttg accagcggac attggagagg tatcagaggg aggctgaaaa gattggcaaa 60
ggatcttttg cccttgcatg ggtacttgat cagggtaccg aggagagagc tcgcggtgtc 120
acgattgaca ttgcgatgaa caagttcgag acggagaata ctgtcttcac gattgtggat 180
gccccgggac atagagattt cgttccgaac atgattgcag gagccagcca ggcagacttt 240
gccgtgctcg ttatcgactc cggaaccgga aatttcgagt cgggcttgag aggccagacc 300
aaggaacacg ccctgttggt acgaagtatg ggtgtgcaaa gaattattat tgccgtgaac 360
aagatggacg cggtggaatg gagccgggac cggtatgagg agattgaaca acagatctcg 420
tcatttttga cgactgccgg gtttcaggcg aagaatatcg ccttcgttcc ctgctcgggc 480
ttcagaggag acaatgtcac tcgacgcagc gatgacccga atgcgtcatg gtacacgggc 540
cgtactctgg ttgaagagct ggaggcaacc gaaccttaca gctatgcgtt ggacaagcca 600
ttgcgcatga cgatcagcga tgtcttccgt ggcggcgtgc agaatcctct ttcgatttct 660
ggtcggatcg atgccggcag cttgcaagtg ggcgaccaaa ttctgactat gcctagcggg 720
gagacggcta ccattcgaag cctataa 747

<210> 2312
<211> 483
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (207),(229),(292)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2312
acacccccaa ctattaacca aaaccagatc cgcaaattct ccccctcggg acttgtcccc 60
ctgctcgaat gtcactctct gagctcgacc atgcgcatta atgactcact cgccatctgc 120
gagtttctcg cagagtcaaa tccccatctc agcctgtggc cgcctgacgc attcttcaga 180

accatggcgc gcagtcccgc ggccganatg cactttggat tcgcggcant gcgatacaca 240
taccccacaa actttatagt gcagtataca ggcaatatcc ccgtgcctga gnccgcgaag 300
aaagatatcc agcgtctatt tacaatttgg gataatgcgc gacaggcagc gaagacgcgg 360
ttggctgagc tgggcgagaa ggacgacggg ttctttgttg gggggttcag tattgcggat 420
gcgttcttct ggccggtgct ctgggtacgt gcgaactcgc ttgtttattg tgtttgctat 480
tga 483

<210> 2313
<211> 234
<212> DNA
<213> A.fumigatus

<400> 2313
cgcttccgca cgtacaatct ccctctcgaa ggcgccagcg ctgatgtggt gaagtggatc 60
gagaccatgt ggaatgaccc taccatgcag aagttggcgc acaagtatta ccgccaggcg 120
gagcttccgg agtctcatat ggagcggtat gagaatatct tccctgatcg tgatgatatc 180
cagtatgcaa ggtttccgga ggattggaag tttactgttc ctggaaagtt gtga 234

<210> 2314
<211> 831
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (17)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2314
tcttatacga agctgcngac tcatggccaa gtaaatattg attcagacca ccacccttcc 60
ctgatcgggc ttcttcttag cggaccattc ttccggcgcc aaagtactgg aggccacatc 120
ctattgtttc cgagcgttga gttgtcgcat gaaggtcacc atcaccaaaa gggaccattt 180
acacgagtca aggagtatct ggggcaacgc cgtagtcgtg tgacaagctg tatcgcaagc 240
gggtgggaga agagcacaac cgcagtgtac agtcgacttc cgagccgtat acagaagccc 300
gtgtctgttt gtgctcgcgg tatcaagacg ttcttccgtg gcctatggga cttcatgaac 360
cctccgctgt gggccatgct agtgtcgatt atcgtggcat ccgtgccgtc cctacagcac 420
ttgttcttcg acgaagatac gttcgtgaac aattcggtca cccgagctat caaccagaat 480
gctcaagttg ctgtaccgtt gattctggtc gtcctaggag ccaatctcgc acgaaacact 540
ttgtcccagg aagctctcga agacatgccg catcccaagg aagagaataa actcattatt 600
gcctcgctcg tggcacgcat gctgctccca accttggtta tggcaccctt ccttgctctg 660
ctcgctaaac acgtccctat cagtatcttg ggcgatccga tcttcataat cgtctgcttc 720
ttacttactg gagctccgtc cgctctgcaa ctggcacaga tctgccagat caataatgta 780
tacgtctcag ccatgtcgaa gcttctgttc cagagctatg ttgtttggta a 831

<210> 2315
<211> 267
<212> DNA
<213> A.fumigatus

<400> 2315
ctggtgcgca atcgcacaga gatctttgga acggatggca ctaagccact ccggaacgtc 60
tatatggtcg gggacaaccc cgagtccgat atccgaggcg caaacagcta ccgtagcgga 120
aatggcagca actggcattc aattcttgtg cgcactggtg tctacagagg aggagagccc 180
gcttggactc caaaagtcat cgttgacgat gtaaaaaagg ctgtcgaatg gggaataaag 240
tcttctgggt ggaaactcac agagtga 267

<210> 2316
<211> 330
<212> DNA
<213> A.fumigatus

<400> 2316
gatcctttcg actcaccccg ccaacccata ctagccgtga gccctaggag gggctccttt 60
agagtcacgt gcctgtactc ctgtgcctta ggtatcagct tatacggttg tcttggaaag 120
gcgaacgaaa tgtacttgaa ccggttctat aataatgcta catgttccga gagcaattca 180
atacagaaag tccgtggtat ctcagatatg gacctattaa aacgcaggtc tgccaacact 240
acctatatac atgctttgct ttcttccacg ggcataaacc ctaatgcaat gcagtcagtt 300
cgctctatag aaaatgaact gtccagttga 330

<210> 2317
<211> 255
<212> DNA
<213> A.fumigatus

<400> 2317
ttcggggttg aggactatac tatctggact atctatcagt ccaggcctgc tattaatgtc 60
ttttctggtt tcccgcctcc ctctctcttc cttgtctgcg atttattatt gtccgcttct 120
ctggctgatg accccgttag tctcattgtc ttctttcacc actccccccc cctgttgact 180
atttatttgt tttcagtttt ccaccagttc atttctctct gtcatcggac cacaccatac 240
ttttctgact attaa 255

<210> 2318
<211> 540
<212> DNA
<213> A.fumigatus

<400> 2318
ccggtcacgt tcagtccagg ctgttttgcg ttagatcgga ttttaggtcc accttcaaaa 60
agccgcctgc tttctcccca catcactcga cctgctctct ctccccttct ccttctacgc 120
ctctgccctt caatctttcc tgctggctgc tcttcatgcc ttctcacagc ttccctgcag 180
ataattctgg cacttattct tctgttcatg gccgacactt gtattgtgtg cttaggagac 240
cttggcgaaa gcgccagcga ttctcttgcc atcgccgccg aggccgtgcc aagacctgac 300
cttcaagtag aaggcaagtc aagtgacgct tctaccaaaa caggcggcgt tgatgacaat 360
gaggacgcag gtcaaatcgc ccagctactt ccttgcggtc atattctaca caataattgt 420
ctgaaaccat gggtcgaaag agccaacagc tgtcccatat gtcgtcgcag cttcaaccta 480
gtggagctga gtgaccgtct cggaggtatg tcctttcact tccacctcac cctcacttga 540

<210> 2319
<211> 288
<212> DNA
<213> A.fumigatus

<400> 2319
actcccttct ccagcacgac gattgtccga atcctcacta tccactatgt acatcaaacc 60
ttcccctaca tatacacatc gcgattgacc aacctcatac acagggccgt cttctccctc 120
atcatcatca acaaagccgg tggcttaatc taccagcgcg aattccagcc gggcctacgc 180
aaactttcta caaacgacta cctcgtccta gcagggacgt ttcacgggta cgttgcctct 240
aattaccgcc gtgccacggg agaatcactt tttgaaagca attgctaa 288

<210> 2320
<211> 207
<212> DNA

<213> A.fumigatus

<400> 2320
agaaaggtga agccgagggc agtgaaatat ggcctcgatc actggaagaa gttctatttg 60
cctgactcgc agctctatga agctgtaaag ctgctccaca aagggtccct gatcagtgcg 120
gacaatatcg atatgcctga gctcctggat acttggttta tgtcaaggct gggggtcgag 180
gagggaaggg actgttcagt atggtag 207

<210> 2321
<211> 228
<212> DNA
<213> A.fumigatus

<400> 2321
atgtcttact ttctaaaccg acgagtaact ctgcagaaga actttgtcgc agatagcact 60
gtctttgatg ttggttcctt gatcggtgtt gttagactga gaggtgtatt cacttggaca 120
atgcagagga caagttggtt gacagcaacg gttcctcagc aaactttcgt tgaaattggc 180
ctaattaaca tgagtctgtg tgagaaatgc tgcaaaactc ggtattga 228

<210> 2322
<211> 435
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (424)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2322
aagcaattgc taacagcaac cgtcgtacac agcgtccacg ccatcacccg ctccatcacc 60
cccaaaatcc ccatctcttc tcccctccca acgacacccg cttcctcgaa cgtcgccctc 120
tcgtcgccct caggcacatc caccccgaca ccggcggcgt cggcatacag ccttcctaat 180
cccggcgcac cagtgacggg cctggagtcg ctcgagacgg ataagttccg gttaacgtgt 240
ttccagacgt tgacggggac caagttcctt ttgttcacgg atccgctcat ggcgaatatt 300
gatgcggtga tgaagaagat ctacgagtta tattcggact atgtgatgaa gaatcctttt 360
tatcagctgg agatgcctgt ccggtgtgag gcgtttgatc gacatctagg tggttggttg 420
cggnggagga catga 435

<210> 2323
<211> 636
<212> DNA
<213> A.fumigatus

<400> 2323
atagatttgt tcggcatcca gcaaccgcaa tcatacctct acaccagccg atcgaaatgt 60
tttgacgtcc ctggtgttga tgattctgct gagttccgcg atactttgaa tgccatgaac 120
gtgattggca tgacggaggg tgagcaggat gaagtcttcc gtatgctggc tgcgatcttg 180
tggatcggca atgttcaatt tgcagaagac gattctggga acgccgttat tacggatcag 240
tcagttgttg actatgttgc gtacctcctg gaggtggacg ctgctcaggt gaacaaagcc 300
tttaccattc gggtgatgga aactgctcgt ggaggtcgca gagggtcggt ctatgaggtt 360
ccactcaata cggtccaagc tcttgctgtc cgtgacgcgt tggccaaggc aatctacttc 420
aacctgtttg attggattgt gcagcgtgtc aacgcctccc taactgccag aggggaagtt 480
gcgaactcga ttggtattct ggatatttat ggcttcgaga tcttcgaaaa aaactccttc 540
gagcaactct gtatcaacta tgtcaacgag aagttgcagc aaatcttcat tcaattgact 600
ctcaaggctg agcaggatga atacgagtct tcaccg 636

<210> 2324
<211> 1146
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2324
tngactgttt actccaggat ttgggcctgt ttcttcctcc tcgcgctaca gtcaggcatc 60
agtggcaatg gcatcaacaa cgcctacagc ggattcatgt cggctcctca gatcagtact 120
gccaacatcc tgtccagtat tatcggcggt gtgctcaagc ttcccattgc aaagatactg 180
aatctatggg gtcgtgccga gggtttcctg gtcttcgtcg gggtctacac cattggcctc 240
atcatcctgg cagcgtgcaa cgggcccgac tcctacgccg caggttatgt tctcttttgg 300
attgggtacg acgcaatcta cctgattctc gatgtttttg tagcagacac gtccggcttg 360
aggaacagag ctttcacttt cgctttcgcc agcaccccgt tcatctgcac tgcgttcacc 420
gcgccgctgg ctgcttcgtc ctttctccgc atgacgactt ggcgatgggc gtatggagcc 480
tttgcgatca ttatgcctgt tgcactagcg ccgctcgcag tcgtcttcaa acggtaccag 540
ctcaaggctg agaagatggg gttatatgtc cgccagccga gcggtcgcac atgggcacag 600
tccgtggccc actatattca tgagtttgat agtatgtcga accagcatcc tgtcctcagc 660
ataaacgagc ttcagctaac atcgttacca gtcatcggcg ccttcctgtt gatggccgct 720
tgggtgctgc tgctgctgcc cttcagcttg gccagtaacg gtcgcgcaga atacaagagc 780
gcggccttta tcgcaatggt catcatcggg ttctgcttgt tctttgcttt cgccgcctgg 840
gagaagtggt ttgcccgcgt ccatttcatc aattacgagc tgctgaagca gcgcacggtt 900
ctgggcgcct gtgtcatggc cgccacactc tacttcagtt tctactgctg ggatctttac 960
ttttataact tctgcacggt cgtttacaac ctcaacgccg ccatgactgg ctatatgacc 1020
cagatctaca acgtagggtc atgcttctgg ggtgtcgtct tcggcctctg ggtgcggtgg 1080
acaaagcact ttaagcacac ctgtctgttc ttcggcttgc cgctgatgat cctgggtgcg 1140
ggtttg 1146

<210> 2325
<211> 237
<212> DNA
<213> A.fumigatus

<400> 2325
agacaggttc ctcctggtgc tgtggccaat gctccagagg gtacaccgaa aggacccgaa 60
acaaacgatc aacctgacat ggattcatca agactgagtc tggaggcccg taatgagaag 120
gagatcgagc aacatccgaa tcaggtcacc gcggatgctc atctgggtgt tcagaaagtc 180
gaagcggctg cgctggtctg gagcaagaag gcagtctggg caacctacgc ctggtaa 237

<210> 2326
<211> 324
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (321)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2326
aatgcaccct caggacctga gactcaccat cgcttccatc atttccgaca gcgaaagaaa 60

gttcttcacc gtctatgccc acaatggcac cgtcagcgtg gtcgagcccg agaacagcct 120
cttcgatccc caaatgtgag ctactccaaa atcccgttcg cggtcagaga acattggctt 180
attgttattg accctagtat cttcctgtac ttcttcctcc tggcttgttt cgctggtacc 240
gtctacttcc tctacaccat ctggattgcg ccctacttcc ctcagatgcg caaggctgga 300
aatgctgccg acttctccca ntaa 324

<210> 2327
<211> 435
<212> DNA
<213> A.fumigatus

<400> 2327
gacactaccg agaatacgca ggacatcccc gaggttcaaa agctcgctgt atcggcggag 60
gcttccttcc cagcttccga gatcttcggc gttaagcttg tcaatggtca cccgacccag 120
gcattgatca cttttaccaa tgaagaagct gctcctgtga ccgtcaactt cgtcggagga 180
tctttgtcga ctctcgatga aaagagccag attgttcgta acctgactgc cactagatat 240
ggcattgaga tccccgctgg ccagaaggag agtgttagct acagcttcgc cactgaaatg 300
caccctcagg acctgagact caccatcgct tccatcattt ccgacagcga aagaaagttc 360
ttcaccgtct atgcccacaa tggcaccgtc agcgtggtcg agcccgagaa cagcctcttc 420
gatccccaaa tgtga 435

<210> 2328
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2328
aacagctgga tgcgtatgca ggggcatttc ctactcccgt gtacgtgggt gctcacaaac 60
gccaccatct tgggattcct gtgcgcaatc gccacagcga acccggttct cgcgcgtgct 120
cagggaacag ctagtgggaa ggtggcattg gatcgtttat atgcgcctat ggcgccgata 180
ggctggcgct ga 192

<210> 2329
<211> 513
<212> DNA
<213> A.fumigatus

<400> 2329
taccacaact tcccagcgcg acttacagag cgtgggtatg aaatcaaata tgaggaaggc 60
cttcaaatcg gatacagaca tcctcagtcc cagcgcactg cgcagtggca attcggccac 120
gggttgtctt acactacctt cgaatactcg ggactcaccg tcagtggcca gaagatgacg 180
gaggaggccg gcgattctga cctgaaaatc tcggtcaggg tcaagaacac tggtatctac 240
cccggccatg aggttgtcca gctctatata tctcctccag acagcacgaa ggtgtggcgt 300
cctgctcgcg agctgaaggg ttatgcgaaa gtatggatac ttcccgggga gtcagaaaca 360
gtgacgatct ccctgaataa gaaacatgca ttcagctact gggatgagga tgccaaacaa 420
tggcggctgg agcctggaac atatcgcctt cttgtaggac cgttttcgac ccccttgag 480
attgagcaca gtttagtgtg gtctggacgg tag 513

<210> 2330
<211> 1065
<212> DNA
<213> A.fumigatus

<400> 2330
gaaccatttg gactgaacac tgggcgaact ttgtatgcgc cattcaagaa agttggaccc 60
tgcccccaag gaagggcacc ccaggaggag agcaatatcc gggactgccc cgcaggaggg 120

tgcctcggac acaatgggga cgtgggcgca gacttcctcc catacacgtc agccgttggg 180
tacgatacag cttacaccct tcgagaacac ttgaaagaac tcctccttga tgtcgccaac 240
tacatacgag aacgagcaat cgccgccggc gcaagcgagg cggatacccc acacatggtg 300
cttcgattca caggaggatg ggtgagggac aagctgcttg gagtcgacag tcatgatatc 360
gatgtaggaa tcagctccat gactggttac cagtttggca tggccctcaa agattatctt 420
gacattcctg aaaatttgga aaagtacaag cgcaaccacc ctaatgggca catgaaggag 480
gctatcgtca gcctgcacaa aattgaagca aatccggaaa agtccaaaca cctggaaacc 540
gtaacaacca agatctttgg tttcgatatc gatctggtta atcttcgaaa ggagatgtac 600
acggatgata gccggaaccc acagatggag ttcggcaccg ccgaagaaga tgctttgcgt 660
cgcgatgcaa cgattaatgc tcttttctac aatctaaacg aatccaaggt ggaagacttg 720
actggacggg ggttttcaga catgagggac aagattatcc ggactccaat ggagccatac 780
cagaccttca aagacgaccc tttacgtgtg ctacgactga tacggttcgc cagtcgcctg 840
ggctataaaa tcgatccaaa cactgaaagg gcgatgcaga acagtgatat tagtgtggca 900
ctaaaactca agatcagtag ggaacgcgtg gggacagagt tggagaagat gctcaaaggt 960
ctgcaaaatc cagttaggtt tgaaacagag ccgcatgtta actttgggtc aggacccgat 1020
cctcgaggcg cgctgcaact cattgtgtcc atccccaggg gctga 1065

<210> 2331
<211> 717
<212> DNA
<213> A.fumigatus

<400> 2331
gctaaaggtc ctgaaggtcc acctttgggg cctaaaggtt cttccccccc tggcaggcaa 60
gtcccgggaa cccagttcat cgacgttgct accaaagctc ttgttggccg cgatgtgctg 120
aagcccgtgg atctcatgac tgagaagcgt gactacctcg ctacgaaggt gccccagttc 180
agctggactc gtcttgccgg tgccgatcct ttcctcggtg ttgagatggc cagcaccggt 240
gagattgctt gcttcggcaa ggatctggtt gaggcctact gggcttctct ccagtccacc 300
atgaacttcc gcgtgcccga gcccggcgag ggtatcctgc tcggcggtga catcaacaac 360
ccggctttgg ctcagattgt tgactacctc aaccctctcg gctacaagtt ctttgctgct 420
agccctgagg tccaggctca cctacagtcc gctaccaagg acaaggtctc cgtgcaggtg 480
atcgagttcc ccaaggagga caagagagct ctccgtgagg tgttccagaa gtacgacatt 540
cgcggttgct tcaaccttgc caagacacgt ggcaagaccc tcctggatga ggactatgtt 600
atgagacgta acgccgttga cttcggcgtc cctctgttca tggagaccaa ggtatgtggc 660
agttcacttc cttcaaccac gtgcacctgt atcatgtgta ctaatcgtct atattag 717

<210> 2332
<211> 594
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (581)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2332
ggcagtcaca tcctcactag ccttctcgaa aatcctgcta tagctcgtgt ggatacaatc 60
tcccgtcgca ctccatctgc tgctgctgcg gcaccacaga caaaacttac cactttcgta 120
tctgatgata catcccgttg ggctgctcaa ctctcttctc tcaccccaac tccatccatc 180
ttcatatccg cctttggcac tactcgggcg gcggctggtg gattcgagaa tcaatacaag 240
gtagagcatg gcctgaatgt agaaatggct cgcgcagcgc gcgacgccgg cacgaaagtc 300
tatgtcctga tttcatcagg cggggctaat aaggcgtcgt ctttcgcgta tcctcgtatg 360
aaaggggaga ttgaagaaga cgtgaaggcc ctggggtttg aaagaacggt gattttgcgc 420
cctggtctga tatccggcca acggcaggag agtcgaccag cggaagcagc actccggttc 480
attgctggca ttgccgggaa agttcactcg ggattgaaag atgggtgggc tcaagatgca 540

gacgttattg ctcgcagcag cggtcaatgc aggtctcaaa nctctgggac gtga 594

<210> 2333
<211> 393
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (26)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2333
agatggctgg aacgaactca ccaccngaga agaccaactt cttcgttcag ttcatgggtt 60
atttccgtgg tcctattctc tatggtatgt taccaatttg tccagggtgg aggaggactg 120
ccctttccga gagacaatgc tgatgatcgt cattgtccag ttatggaatt ggctgttctt 180
ttggctgctg gtcttcgtga ctggattgat ctgggtgtca tttgtggtat tcttctgctc 240
aacgctgtcg tcggttggta ccaggagaag caggctgccg acgtcgtcgc cagtcttaag 300
ggtgatattg ctatgaaggc tgttgttatc cgtgatggtc aggagcagga aatccttgct 360
cgtgagctgg tcactggtga tattgtgagt tga 393

<210> 2334
<211> 657
<212> DNA
<213> A.fumigatus

<400> 2334
ttccccttc cattacagat cgttgttgag gaaggtaccg tcattcccgc cgatattcgc 60
ctgatctgcg actacgacaa gcccgagatg ttcgaaacct acaaggagta cctcgccact 120
gccaacgatg acaccctcaa ggagaaggat gatgacgacg aagacggtgg catcgaggcc 180
cgtgttggtg tctccctcat tgctgttgat cagtccgcca tcactggtga atctctcgct 240
gtcgacaagt acatggccga cacttgctac tacaccactg gttgcaagcg tggtaaggcc 300
tacgccatcg ttaccgccac cgctaagcag tccttcgtcg gcaagaccgc tgctctcgta 360
cagggtgcca aggaccaggg tcacttcaag gcgctcatgg acgacctcgg tagtagtctg 420
gtagttatcg tcatgttctg gattctcgcc gcttggattg gtggtttcta ccgtcacctc 480
aagatcgata ctcatgagca cgaggacaac aacctgctcc actacaccct cattctcctg 540
atcatcggtg ttcccgtcgg tttgcccgta gtcactacca ccaccctcgc tgtcggtgcc 600
gcttaccttg ccgagcagaa ttttcaccac gggggggcac ggctccgcgc tcagaga 657

<210> 2335
<211> 666
<212> DNA
<213> A.fumigatus

<400> 2335
gggagtcgta tcctaggcca ttgcctggta agatcgtcgt cagccatggt gatctcaacg 60
aagtatatat ttgccctttg cgtcctcttg ctgaccttct cactctctag cgcctacgaa 120
gatcccctcg tcgagctcga ctatgggcag ttccagggca aatatgactc tacgtataat 180
ctctcatact tccgcaagat ccccttgcg gcgcctccaa cgggggagaa ccggtttaga 240
gcccctcagc cacctctaag gatcacgcat ggcgtctatg acactgatca ggactttgac 300
atgtgcccgc aacgcacggt caatggctcc gaagactgcc tctaccttgg cctgttctca 360
cgaccgtggg atgctacagt ggctccctcg tctgcttcta gaccagtcct ggtagtcttc 420
tacggtggtg gcttcatcca aggcagcgct tcgtttacac tacctccgtc ctcatatcca 480
atcctgaacg tcaccgagct gaatgactat gtggtcatct accccaacta ccgggtcaat 540
gcatttggtt tccttccggg caaggcgatc aagcgatctc caacgtctga tctcaacccc 600
ggcctcttgg accagcagta cgttatacaa gtggtgagtt ttgccccacg gggccgaaat 660

ccggtg 666

<210> 2336
<211> 915
<212> DNA
<213> A.fumigatus

<400> 2336
agcgcggatc cttcgagccc cgtggtgaag aatttctgct ccctctcact ccaacccttc 60
tcgcatccgg tttgcacacc atcaggaacc atattcgacc taaccagcat tctgccctgg 120
attaagaaac acggtacaaa tcctgtggac gggtcgccgt tgaagagctc cgacctcatc 180
aagcttaata tcgcgaaaaa cgagtcgggc gagtatgtcg atccggtcac gtacaaggtc 240
ttgacggaca acacgcacat cgtcgctttg cgcaacacag gcaatgtttt tgcatgggat 300
actgtcgagc ggttaaacat caaggggaag ctgtggcgcg atcttgttac ggatgaggag 360
ttcagccgca aggatataat cacgctacaa gacccgcaga atatcgagtc gaggaatctg 420
agtacgttca attatttgaa ggagggagag agtgcgttga ctgagcaaca aatacgggaa 480
cgagaggatc cgtcgaataa tgtcaatttc aatgcgttgg gaaatgcggc gaagatcctg 540
aaggcgaagg aagctgtagc gaaggctcgt gccgagaggg ctcagcgcgc cgagtcgggt 600
gccgcgtcaa agggtttgac aaagccgggt atgagtgcca cagctgcgtc gcaaaagacc 660
gtttcacacc aggctgggaa acctattccg tacaatgcgg caaggcatac tactggtctg 720
gccgctgcgt cgtttacaag cactggtatg acgccgcata cgtcggccga gcttgcactt 780
ctttcagatg aagagtacat gttaaaacga gggcgagtta agcaaaaagg ttatgctcga 840
atctcgacta cgctaggcga cgtgaatctg gagttgcaca ctgagtatgc gcctaaagcc 900
gtgggaattt cgtct 915

<210> 2337
<211> 756
<212> DNA
<213> A.fumigatus

<400> 2337
cccggggctg ttgttgaaga ggatattgtt ctcgggcctc ccaaaactgc ttttgcatct 60
gcatctcgca caccgggtag caaaagctcg gtagatttca cggaccgttc ctcccgtcag 120
gtcgagtctg atgaggcatc gaacgagcgc ttcaacctgc gagacaagtt cttcaaggac 180
agggagaccg gagatagaga ctttgatcgc cgtgatggta aaccaacgcc gttcaacggt 240
cgccgtgggg aaagagaaga atggaacaac ggacggccgc gtcgtacctt tggccaagag 300
gatcaagaca gaaagcccag acgcaatgta gaatttgacc gttggaaccg tgatcaaagg 360
gagcagaatc ctgatcgagg agtgaccgag aaagaagctc aatttacccc tcggaaagat 420
ggtacgccgg gtcgagccag gcatgaagga agctggtttc gcaatgacaa cgtccaagac 480
ggaccagaga cagaagacga gaaactttca gtgcggaaca gagattggcg tcgagataga 540
catggtgcag atcgcgactg gaatcgggga gccaaatttg aacaggatcc tgagtggatg 600
gacacgaatg acagagacga gtcgcgtaag gtgcatacgc aagaagattt tgagcgatgg 660
aaagagcgaa tgaaggctgg ctcttcgcaa gcacaactgg aggagaagaa agaagctccc 720
tccgatcttc accgccgggc aagaagaaca agcgct 756

<210> 2338
<211> 282
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (45),(170)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2338

gccaccaaca gagagcctga caggtcactg gctaacgtcc ccagntggga agcaatgaac 60
catccggacc gtccgaaaca ccccctgatc gttcggaatg gaaagctgga gcccgcatcc 120
tgggacgagg ccatgtcgct gatcgtgcac cacacgaaag acgttcaaan acgcctgacc 180
aaccatggaa tcggtttcta caccaccgga cagctgttcc tggaggaata ctatgtcctt 240
gctatgattg gcaaggccgg cctgaataca ctgcacatgt ag 282

<210> 2339
<211> 1098
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (491),(547),(744)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2339
agggacggca acactcgcct ctgcacggca atggcagctg ccagtatgcg cgagtccttt 60
ggcagtgacg gccagccggg atcatataca gacatcgact tcaccgattg catcttcatg 120
gtcggacata acatggcaaa cacccagaca gtgctgtggt cccgtgtgtt ggatcgcctg 180
gcaggacccg atcccccaaa gctagtggtt gtggatcctc gagaatcgga gacggccagg 240
cacgcgacag ttcacttggc gccaaagggt gggaccaatg tcgcgctact caatggattg 300
cagcacttgc tgttcgagaa cggctggttg aatgaggagt gggtggaaca acacacagtt 360
gggcgacagg agttggaaaa gacagtggcc aaatataccc ccgaatatgt ggagaacata 420
acgggcgttc ctgccgatat gctgaaagac gccgccgaga tcatcggcac cagtggtagt 480
ctcctgtcca ntgccttaca gggagtttat caatcaaacc aggccaccgg ggccgcttgc 540
cagatcnaca acatcaactt cttgctggaa cacattggca agcccggcag tggtattctc 600
caaatgaacg gccagccgac tgcgcaaaac aatcgcgaga caggatgcaa cggcgagtat 660
ccagggttcc gcaatttcca gaacgagaaa cacatgaagg agatcgccga cgtgtggaag 720
attgacttcg tgcagacgcc acantggaac cagcccaccc acattcaaaa tatgctcaac 780
tatatcgagg atggcagcat ccagatgttc tgggtgtctg gcactaaccc cttcgtcagc 840
ctgccccatc tttaccgcgt ccgagagctc ctcaccaagc cagagctgtt cttggtggtg 900
caagatatct tcgtgaccga gacggccgcc attgcagatg tcgttctccc tgccgcacaa 960
tggggcgaga agacgggctg tttcaccaac gtcgaccgga ccatgcattt atcgttgaag 1020
gccgtagacc caccagggga ggctcgagct gaccttgaca tttgtcttca accacggggg 1080
ctggaaggaa ccgcgctc 1098

<210> 2340
<211> 483
<212> DNA
<213> A.fumigatus

<400> 2340
ggggctgtcg ggggacgtat aactcgtagt ccatatagaa gtagctggtc tcctcgccaa 60
aggctcacac cacgctccat atcgcatctt ccaattgact atggagatag aaagcaaaag 120
gacagcgtcg tgttccaaac cgcacgacaa tggacccctg gaaatcgaac tggccaccgg 180
ccaggtcatc atgggcctgc cggacatgcc catgaagcgc aagttcagca tcctcagcat 240
catcgccgtg ggctacaaca tctccaacag ctgggtcgcc atcgccgcca gttttgctat 300
tgccgtgcag tctggagggg cggtgtcgtt gctctacggc atcgtcgccg tcactattgc 360
catgctgtgc actggcgtca cgctggcgga gctggccagc gtctatccca cggcaggcgg 420
acagtaccat ttcacctcta ttctggcatc cgagcgatgg agccgccatc tgtcgtactt 480
tag 483

<210> 2341
<211> 609
<212> DNA

<213> A.fumigatus

<400> 2341
ctcgtagtcc atatagaagt agctggtctc ctcgccaaag gctcacacca cgctccatat 60
cgcatcttcc aattgactat ggagatagaa agcaaaagga cagcgtcgtg ttccaaaccg 120
cacgacaatg gacccctgga aatcgaactg gccaccggcc aggtcatcat gggcctgccg 180
gacatgccca tgaagcgcaa gttcagcatc ctcagcatca tcgccgtggg ctacaacatc 240
tccaacagct gggtcgccat cgccgccagt tttgctattg ccgtgcagtc tggaggggcg 300
gtgtcgttgc tctacggcat cgtcgccgtc actattgcca tgctgtgcac tggcgtcacg 360
ctggcggagc tggccagcgt ctatcccacg gcaggcggac agtaccattt cacctctatt 420
ctggcatccg agcgatggag ccgccatctg tcgtacttta gtggtctcgc ggccgtgttc 480
tcgtggatta cactcgcggc gtcgatcgca gtggcttcga cgcaggcgct gatggcggtg 540
gttatccgct gggcagccag agtatgtgcc tcaggcgtgg cattacttcc tggtgtatca 600
gctctttaa 609

<210> 2342
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2342
tggcggtggt tatccgctgg gcagccagag tatgtgcctc aggcgtggca ttacttcctg 60
gtgtatcagc tctttaacat cgccatggtt gtccacaaca tctttctcac caacagaacc 120
ctctgggtgt ataatgtcgg ctgtaagttc ccctccgttc tgacctcgcc attcgtcgac 180
tag 183

<210> 2343
<211> 549
<212> DNA
<213> A.fumigatus

<400> 2343
acttttgcca tactgacatt gcatccaaca gttctcctct ccctcggaac cttcctcacc 60
atcaccgtca cctgtcccgc ccgctcccac accacggtcg actccttcgc catctggacg 120
cagttcatca acggctccgg cggctggccc aacggcatct ccttcctgac cggcctctcc 180
acgccgcagt tcatgctctc cggtctcgac gccaccctcc acctagcaga agagtgtctc 240
gagccggagc gtatcgtccc caaggccgtg ctggtaaccg ttgtagtcgg ctttctcacc 300
gcgttccctt tttccattgc tatcatctac agctaccgcg acgtggagtc gtccctgtcc 360
tcgccgacag ggtgcgtcgc ttccctttc ctgcataatt acaattacag ccacttactc 420
cgtcttagat tccccatcta cttcatctgg gaaaaagcca cccgctcccc aacagcggcc 480
acagttttca tggccgccct cgtcgtcatt ttttgttttc accacgggcc ggaaggaccg 540
cgaatgcgc 549

<210> 2344
<211> 249
<212> DNA
<213> A.fumigatus

<400> 2344
ttgcatctct ggcatgggaa atactccgtc gctgtcaaga acgtcggcat acaagcgttc 60
cgcttcctca aggcaagaag acgccagagt tggctttcca accctgagcc agaggtcagc 120
cgcaaggatg ctccacatcc cagccttcct gcgacgaccg ccccatctaa ctccggtcag 180
tggtggccta aaagcataac acgccgagat tctttcgctg aaaaggatct gccctatccc 240
gccgactag 249

<210> 2345

<211> 1041
<212> DNA
<213> A.fumigatus

<400> 2345
ccgataccag aaccacttgt tgagcttgac accgaatatc gcccatacct ctttgactcg 60
gacgtgatgg ctatccgggt tttcgttcgg gagttagtcg atcagtcaat cgttccgtac 120
atggaaaata gagttgccgt ttggaatgat caggtggcat ctcgaaggcg cggtattagt 180
ggccgtttca tgtcgatgtc gcggaaatgg gcagggttcg gttatagctc gcgatctggc 240
attaatggct ccggtggtgg gaactatgat tttgcgcgcg gattttacaa accagacacg 300
cctgaagcga tattgcgaaa gatggctgac tttgctttca tgcttcgtga ctggaagcta 360
tcagcatcca cgtatgagct cctacgttcc gactatacca acgataaggc ttggagatat 420
catgccggtg ctcatgagat gtgcgcagtg agtacgctgc tgaacccaat ggccatgcca 480
gcgaaaccga gactcgaagc catcgatcag atgttggaaa cggcttgcta ttcgtacctc 540
acgaggtgct ctgatgcccc caacgctctg cgttgcctat gcttagcgat ggaattgctg 600
aagtctcgtg gcgggtttgc aactgaaagc gcggctaaat gggccatgcg ggccatggac 660
ctaggtctag tcggcgggat agggcagatc cttttcagcg aaagaatctc ggcgtgttat 720
gcttttaggc caccactgac cggagttaga tggggcggtc gtcgcaggaa ggctgggatg 780
tggagcatcc ttgcggctga cctctggctc agggttggaa agccaactct ggcgtcttct 840
tgccttgagg aagcggaacg cttgtatgcc gacgttcttg acagcgacgg agtatttccc 900
atgccagaga tgcaatcatt cgttgataat ctacgacata cggtgaaagt cgaatatctt 960
ggtgctcggg gcttaggccc tcaggaggaa gtatctacga ctgagcagct tgagcagctg 1020
gaacctgaag acacaagcga a 1041

<210> 2346
<211> 720
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (180),(221)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2346
gcccattctt tgcgttggcc caagggcagt aacaaccagt cccatttagc cagtggcatt 60
accaacagtt tgcagaatac agcccgtttc ctcaattcag ccttctttgg cactcagcag 120
gacaaggcgg ctatcttctc catcatccac cgctaccatg cccgagtcag ggcagaggan 180
tacgacgcaa atgacccgga gctgcacaaa tggaccgccg ntaccctgtt cgtcgctgtc 240
gtaatcgtcc acgaaacctt cttcggggag ttgccccggg acaagatgga agcactttac 300
cgagagtctg cggtatttgg cacttccctg cggatgcctc ccgagatgtg gccaaccact 360
cttgccgagt tctgggagta ctggaaccac aacatcgaga cattggaggt caccgatatg 420
gcacggaaac tgagtcgcga tctcctctat ccggtccatc tccctatgtg gatgagagta 480
ttggccccat tgtcgcggct tttgactatc tattttctcc cggaacgact ggccaaggag 540
tacgatctgc aaccgacaat gctgagtcgg atccagtttc aggccactgt tcgtgtcatg 600
cgcattgcat accctagtat gccgcaacac ctgcgacaga cactacatag gcaatacatg 660
gaagatctcg ggaaggcagt ggacaggata agaaagactg gacactgggc gggagtatag 720

<210> 2347
<211> 291
<212> DNA
<213> A.fumigatus

<400> 2347
caacagccag agcttgcggt caacatggaa caacacctgg attggaaacc tgatttaccg 60
ttgcccagta ttgaggattt cattgacccg aggatccttg aagatcgcac atgggagccg 120

aacttcgagc tcgccgaaac caagtctact tcgtcagctg gcagccagga tgtcctgtct 180
ttaagctcgg attttgagac tgatccgaaa tatgagatgc tcagatctga agattcggaa 240
atagatgact actctctatc ggattatgtg agtgcggatg ctagccgtta a 291

<210> 2348
<211> 309
<212> DNA
<213> A.fumigatus

<400> 2348
aaaccaggtg acttgccaga caaaccgcac gatatccctc cccctaaatc gccagcaact 60
gtgaacgatc atcctctagg cctcaatgca gatggcacat tctcgaaaac tggaacgaaa 120
tcgggacagc aggtcgaagg atccgcattt cactcgctta ttttctcctt tacgatgatc 180
gtggtctccg agattggcga taagactttt ttggtggctg ccctcatggc catgcgtcat 240
ccacgcttgc ttgttttctc ggcggcattc tctgctgtct tcaccacggg gatggaaaga 300
gccgctcca 309

<210> 2349
<211> 651
<212> DNA
<213> A.fumigatus

<400> 2349
agacgccagg aatttctcat cataaccata gcccatactg cgccccggga cacccacagc 60
aagctcgtcc aggcagctgc taaggctggt gttccctata tcatgcccaa tgggtacgct 120
ggcgacattg accacatcaa acttggcgag gacacgctgc tggggcccgt ggccaaggct 180
aatcgggatg agattgaggg gctcggcatg cagtggatca cggtgtgctg tgggttttgg 240
tacgattaca gcttggcggg cggagagtcg cgcttcgggt tcaactttgg caagcgttcc 300
ctgacaattt acgacgatgg caacaccaag atctctactt caacgttatc gcaggttggg 360
cgcgctctgg caaaggtgct gagcctgaac gagctgcctg aggacgaaaa tgacaagagt 420
cttactctgt cgacatttct caacaagggc ctgtaccttg agagctttgt cgtcagccaa 480
aatgacatgt ttgagagcgt taagcgcgtc actggcacca gtgacgctga ctggacgata 540
actcatgagg aacccaagaa accatatgaa gatggcctgg cgttagtcaa acgtggtaac 600
atggcaggtt ttagtaagct gctatacccc agggcgtttt acccgggatg a 651

<210> 2350
<211> 453
<212> DNA
<213> A.fumigatus

<400> 2350
ctttttatgc aacagccaat aatctccaac tccaagactg gagaccttct gagactccat 60
ccagttgaac ccgatctcct ggacctcctc ggaggtatct ctacatacaa gatcgagtac 120
acgtcggtcg acccggacga ctctactgtc tctgccaccg catttgttgc ctttccattt 180
gtccagcgag gtagcccatt caatattgtc gcttttgcac atggaacgtc cagcatattt 240
cgaagttgcg ctccatcaac ctcctcgagc ctccatgatt atgataccgt gattcctttg 300
ctatcttcag gatatgttgt tgtcgggact gattacgctt gccttggaaa caactacacg 360
agcctagaat atacatccgc tagggctaat ggtattaagt gtaaaatctg tagatgttgt 420
ttctatgacg ccatacgctc aggacggcgc tga 453

<210> 2351
<211> 288
<212> DNA
<213> A.fumigatus

<400> 2351

cacccggatc tcgcccgtag tacgagggaa gagcctccta agcttggatt cctgctcatc 60
accatcagat acctttccgc tctcagtggc aacatcatcc tgaacgccag cgtcacttcc 120
atcctccatc cgtttaatat gtactctacc tctagcttcg tccgcaccga taatcatgcc 180
ctccacaaat tcaaagtcgc ggcagaaagc ctcgaccgct tcttccgtga cactttgaac 240
gaaactggcg ctctgcaggt gcttcaagtt atccgtagca tccattag 288

<210> 2352
<211> 315
<212> DNA
<213> A.fumigatus

<400> 2352
tcttctgccg gcatgtgcgc actgttgcat ctcgtgcaac tggacatcat tcatgagatt 60
ttgcacatca tggatgaata tactgtcgtc ttgcaaattc cgggcattga ttgcaccttc 120
caagcattgt tgcaaatcat gatcgagctg ctgaattgct gggtcaatgc gcctgttttc 180
gtctgttggt cgattctcca taattttacc ggaaatgtat tcgggaagca tggtccgaaa 240
atctgttata acattttcaa gtcgagcggt cactggatct gcgaatacag ccgtatcaag 300
actcgaaggt ggtaa 315

<210> 2353
<211> 771
<212> DNA
<213> A.fumigatus

<400> 2353
agtacgttgt tgatggttac ttcgatgtat gtggcgatgg ctaattcgtt gaaacagaac 60
gaccaagcag aaaatggccc ggccgaggca ggtcacgcag atgaggctac cgaggaaaac 120
aaacctgccg aaggacatgc gacggaagag ccccagatcc cccaacccgc ggatgaaggg 180
atgcctcagg cacaaggccc gacaccgatg ttccccaatg ccatgggatt caacatggga 240
cccagcgcgt ttccaaatat ggcttggaac aacgccagcg gcgatttcaa tcccatggcc 300
cagtttatgg ctaacggcat gttcaacttc cccaacccaa tgggtaggtc cctcctcatc 360
tgtctctcaa aacatccaaa cactgacatg atgacttcag caatgtctgg tatgggaatg 420
gacccaatgg ccgcgaatca gggtatgctt ggaggctacg ggatgaacat gaatggcatg 480
aacagtggca tgaatatggg aatgaatttc gacgctagtc aagggatgta tgggggatgg 540
gacggctctc aaaacaatat gtggaatgga ggccaagata aattcaatcc aaatgctttc 600
gcaaatggta tgggcccgca gtatgagggc ccttctggat ttggcggata taatatgtct 660
caacccaacg gagttcatgc tcaaatgcag caacaacagt tccctagcca agattttcag 720
aacgggtact atggccccgg ttatggcaga agcaatttcc gaggccgcgg c 771

<210> 2354
<211> 882
<212> DNA
<213> A.fumigatus

<400> 2354
aaggggttgg ttcccagacc cttaagcgaa aaacaaccgc caattcgggt tgaaaccggc 60
cggcacacct tgcaaacgat tctccgccaa aaaaaacaat ctcggaagtc cctgtatctg 120
atcaaacccg gcggtattca aggctacgtc ggagcagtag cgtcctatag atcttacacc 180
gacgtcgttg ctaagacgga cgtctatgtt ggctttctcc cacgggcgtc cttggagcgc 240
atcgcggagc ggtatccgat cgctctgctg acgcttgcga agaggctgac aagtatcctt 300
ccacgcctgc tcctccacat agattttgct ctcgaatggg tacaggtgaa tgccggccaa 360
gttatctacc gccaaggcga cgagagcgac gcaatttatc ttgttttgaa tggacgatta 420
cggtcagtcc ttgaaagtcc aggcaacaaa ttagccgtcg ttggcgaata cggccaagga 480
gaaagcgtgg gtgagctcga agtgatgacc gagtccactc ggccggctac tcttcatgcg 540
atccgtgata ccgagttggc caagttccca cgatcgctct tcaacagcct tgcccaggaa 600
cacccaggaa ttaccattca ggtctctaaa ctgattgcgc aacggatgcg ggatctagtc 660

gaacgcccgg tgactgagaa aggcgtcgaa cgaagcaacg ctggcagtgt gcaaaccgca 720
acctcgaccg tcaatctccg gaccgtgggc attctgcctg tgacagctgg cgttccagtg 780
gtcgaattcg gtaatcgact attgcacgct cttcatcaag ttggagtgac ggatggggtt 840
acagtcttca ccacgggggt ggaagtatca gcagtgatca gt 882

<210> 2355
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (38),(113),(117),(144),(147),(158),(208)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2355
ggctttctca attgcaacga gttgttagct tttcaggnga agaacactgg acttccaatt 60
ggcaatcttg tcgtccaggc gggaattttt ttagtctacc cagagctccc ccntggnatt 120
aacgcggttg cgaagtttct tgcnagntac gtgatttnta accaaccgat cgcgaacatg 180
accttcaaga catgtagctc ggttactnat cagtag 216

<210> 2356
<211> 258
<212> DNA
<213> A.fumigatus

<400> 2356
tactggcgcc ttcatcccgc caattggaga tcctcttcaa ctaacctttg cttacataac 60
tgggtttctg ttgtggacgt cattgcggcc ccagcgcaca cagctgcgtc tgatgaatct 120
atatcagaca agtttcacgg ccggcaaata aattcgaata atgagatttt tggagagaag 180
tacatgcttc tcttagagcc aagttacaac aaaattaacc acgcaaaata tccactcccg 240
caaatttgca ctccatga 258

<210> 2357
<211> 228
<212> DNA
<213> A.fumigatus

<400> 2357
cttacattag gagcactcgc aaagccgcgc gatggctctt ggcccttact gtacaacact 60
gtcgctgcga taggtgcatt tgtcggtgga acaaaagcga ccaactgcga cattccgcta 120
tacaaagaag cctgcaaaca ccttacgatg gatgtccttg agaagggatc cctgagttat 180
gtgcaggcca tagtcctgat ggccaactat ctgcaaaagc ggaattaa 228

<210> 2358
<211> 303
<212> DNA
<213> A.fumigatus

<400> 2358
cgcaatcatc ggccaaacca aagtattaaa gaaacacaag gcacatcggt cctcaacttg 60
cgcagtagaa tggcccctcg gaaacgcaag accgcagcga tcccaagcag cgatgatggc 120
accacacaac aaccgagcaa acgcgaaaag ctggacctgt cacgtccgca tcccaatgcg 180
caacaggccg agaactttgg catcgtgctg cgagaattct atccgccgga aatgagcaac 240
gagcggtgcc aggcctacaa cgatggaagg ctggaacgac cgatcgagac gctccaacgg 300
gcc 303

<210> 2359
<211> 672
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14),(137),(265),(339),(346),(422)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2359
tccacctgcc cttntcgacc acaatcttca tccaccaaga atagcagcga aatacccaac 60
agccacgcgg agatggtggc gttcctgaac ctctgcttcc gcgctttggc cgaactggga 120
cagtctttcg agaacgntaa acgtacccgc gatttttttg tcagcctaca acgcaggtgg 180
caggcccacc tgcgtcggtc tggttccggc aaaaagcgcc aagtcagcaa attactcccg 240
cagcaatctg ccggatcggg acccngacca tccaccgagt ccgatccctc gagaaaaaaa 300
tcccggatat ccgcgccgcg gaaccataag caatcctcnt atcctntccc gccagcacct 360
tcatcaagca tgccttctac ccacaatctc tttcagctgc ggccccactc caactcacag 420
tntcaacacc ccccacacca gtccctaagc caatcccaat cccagcgttt cggcgcctgc 480
caaccgggcg acctagactg gatccgggac tcggacttcc aactcctcgc cgagaaccta 540
ggggatggcc gactggcgca gatggggacg ggcaatcagt tcgaagggga gaatgtcttg 600
cccagtctat ctgatatcga gccgtggtgg gactcgccca atggacatac tttcgggggt 660
tcttcattat ag 672

<210> 2360
<211> 357
<212> DNA
<213> A.fumigatus

<400> 2360
tgggggggggg acacgcttag cgcggcacct tcgacccccg tggtgtcgat ggccagcatg 60
caaatggcta tctctgcata taaaaatcaa aaaattaaat caaaatcaaa ggctgctgag 120
atatttgggg tgcctgaatc tacccttcat aagtggctta gtggggttaa accatatata 180
gaaacatgcg taaatagcca cagaatgaca gttatagaag agaaatctct tattaagcat 240
ctcctagata cagataagca ggggttctta attcagccta agtttttaca tagaatagca 300
cagattctgc tgcaagcgca tacttataat cctactacta cccttgatgt taactag 357

<210> 2361
<211> 222
<212> DNA
<213> A.fumigatus

<400> 2361
aagcttacta atagcgcaaa tagctggaca acagataaga taggccttaa gtggctaaag 60
gaggtcttta acccttttc tcacctacat ttaactggtg caaagcaatt acttatactt 120
aatagccatt caagctatca aactgctgag tttgatgatt tctataagga gaatataatt 180
atctgtcttt atatgcctcc gcatacatct tatcttcttt aa 222

<210> 2362
<211> 384
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (361)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2362
cagctgctcc tcgccattcc acacggcaca ttcatcttcc aaaagccccc cgtctacggg 60
tggtatctct ccgtgagcgc tgtcgggctc aacgtctcct ggagcctgca caatgtcatt 120
gcctggatga aaagcaagcc gttctatagt cgcaatgtct ccatggcata tatcgctagt 180
gtggtcgcgg tacaaccata ctggctgctg gagatctatg ccaactttgc atatttcaac 240
aatatcaacc gcgtattcga agtgacgcgg gcaatggaac ccgtcctccc gtccgtaatg 300
aacccgaatt ctgcaattcc tggtcccaat tcctgttatt ttgaagaatc gaccaacgca 360
naaggacgga gccctgttcc caat 384

<210> 2363
<211> 447
<212> DNA
<213> A.fumigatus

<400> 2363
ggaatctcca gtcatcgatg tcgcccgccc gacgcagcgc cagtatcagt accacggcca 60
ctgctaccat cgccatcgtt actcaagccg ccatttccgg gtccaccacg gtcaccgtgg 120
tcgccgtcgc tatcgtcatc actcgaccca tcgtcgccgg atatggagcc attggaggca 180
ctgctgtcgg gatcatcatc accatcacca tcatccatcg cgtccgtctc gtcatgtccg 240
gtcaacagac acagcagcgc aagcccggta agtcttctct cttactcccc cgcccggcac 300
cactatcctt tgttgcggct aataatacat cagagaacac ggccacactc aggcgttcga 360
tgcgcccacg gaagcaggtc cggtacaagt tttgatcaga gggggggggg gggggtgga 420
gggggttgg ccgctaccat tgtttga 447

<210> 2364
<211> 480
<212> DNA
<213> A.fumigatus

<400> 2364
gagggaataa aagaaatcaa gcaacggatc acacatagca gtgcaataca gaaaatggac 60
ggtcagaaga caatgaacgg gctaaggaat ctccagtcat cgatgtcgcc cgcccgacgc 120
agcgccagta tcagtaccac ggccactgct accatcgcca tcgttactca agccgccatt 180
tccgggtcca ccacggtcac cgtggtcgcc gtcgctatcg tcatcactcg acccatcgtc 240
gccggatatg gagccattgg aggcactgct gtcgggatca tcatcaccat caccatcatc 300
catcgcgtcc gtctcgtcat gtccggtcaa cagacacagc agcgcaagcc cggtaagtct 360
tctctcttac tcccccgccc ggcaccacta tcctttgttg cggctaataa tacatcagag 420
aacacggcca cactcaggcg ttcgatgcgc ccacggaagc aggtccggta caagttttga 480

<210> 2365
<211> 1200
<212> DNA
<213> A.fumigatus

<400> 2365
tgccattact cctcactctc tgtaccagct gataccctct caactgcaaa tatgagcttc 60
caggtacctt atggatcgag tccgtcgaca ccagacaaat ctcggagctt tctcagcgac 120
atctcggcaa ctcctggagg tgctcctcct tccgcaacca agtccttcac tcctcgaggc 180
cctcctccat ccaccatatt cggaagctct cagatgagct caagatcgca gctagattct 240
ccccagtccc ttttcaccaa atccggaggg atcgatttca atgacagcat cttcaattcc 300
tcggtgggat ccttccatca gccagcaccg cgagccaaaa atgctgcctc agggaaaccc 360
tccgcgcagt cgcagtctct tttcagtatg acgaacaata ctcgatttgg cgaatcgacc 420
cgtttcggaa tgtcgaatgg ctttaattca caaatgaatg cagagaccaa ggctgatgac 480

gaacaaatga tacccgaaga ggaagacgat gtccaggagg aggatgaaat ggacatgggt 540
aacgccgcac accgattgag cttcttagac tcgcagtttg gcaattccac acaggcgcag 600
cttacgtcgc atgttcaacg aaagtcaatt tactcaaacc cgggcaatgc caaacggccg 660
aagctcgacg aaaaatgggc tcaacaatca ccgctgcgca agggtaaatt gtctccaaag 720
aaggactccc caattccctc gatcgtaggg aacttcgcct ctcgagctgg gcccgcgtcg 780
gtcaacgagc caagtgacgt gatcatcagc accgaagacg aaatgtgtcg aatgtacgac 840
gaagtaagac aatctgagtt tacgaataga gacattcaaa ttattctctc cgaggtgtgc 900
agcagactca caaattcatg gaagccatcc atggagggaa gccttgtccc caaagcacct 960
ggcgcaggga cggacattgg acctggggat cgtgctcctg atgttgccaa ggccagcttt 1020
ctcggttctt tactgcttca actccatcat ccgcctctgt cgacccccaa gcaagggagc 1080
ctcagcaata atttaggatt tgcggctccc cggagtttag tcgtcacggc ctcaaaatcg 1140
gatacgccta cgccaagacc caaggtcgtc tttacacagg ggtcgaagga gccgcgctaa 1200

<210> 2366
<211> 264
<212> DNA
<213> A.fumigatus

<400> 2366
atgtgtgtat ctccacgtgt gataagtcta gatagctgca tatgcagatg caagtgtaga 60
tcgtatgcac ctaaccttaa gcacagtcgc agcgcaactg agccggctac atactatgta 120
ttctgtacgg agtactctga gggtgactcc accatttcaa atcaggagcg gcgatccacc 180
tgcccagtgg aacagtgccc aaactctatt tccggacttg agttcggccc cgctgcactg 240
aatccactaa cctattgtag ttag 264

<210> 2367
<211> 312
<212> DNA
<213> A.fumigatus

<400> 2367
gtcagcatca tcgctttgaa ggacaaccag atccgtgtcg tccaggcaag catgctgggc 60
agtatcctgt cgaacatcct gcttgtgctc ggatgctgtt tcttcattgg tgggctccgg 120
ttttccgagc agactttcaa cagtactgtc gcgtccacca tgtcctccat gatgacggtt 180
gcctctgctt cgttgatcat tccggccacc ctctacgcct ctctgtcacc atcccactcc 240
aaaactacga cggataacaa tatcctgatt ctatcgcacg gtattcacca cggggtgcca 300
gggccgtgca tt 312

<210> 2368
<211> 717
<212> DNA
<213> A.fumigatus

<400> 2368
ttccggttaa atcccgaaca tttctttttt cccattttcc aaagtctttt ccttggcctc 60
tttccccata caaaggcggc acttcttttt catttcttgc ccatcaattc cgccggaaaa 120
atattgaggc gaatcttgtt aagaacctgg cttattggat tcggtcgatt cctgatccag 180
cagcggcagg ggattttccg ttcagccttc cgcaggcact cgtggggtcc caaaaaaagc 240
agtatgaccg ggttctcttc ttctccaaac ggggctgggg agcccagtga gcgggatgct 300
ttgatcaatg atatcccccg catcaattca ggcatgagcc aacatcggcg ccacaaacgt 360
ggaccacgct ggctgaacat cccagcgcag gtcatgcact tgacctggga gaccctcgtg 420
cgggattacg tcaacgtgct gctcgtgttt gtgcctcttg gtatcatctc cggtgcgctt 480
cactgggaca gcacggttgt cttctcgttg aacttcctgg cgatcatccc attggcgtcg 540
ctgctgagct ttgcgactga ggaactggcg gctactatgg gacaggcgtt gggggactg 600
atgaatgcta cattcgggaa cgcggtcgag ctgattgtgg gtttatccgt tcgagtcgtt 660
tcgtgtttaa cgatagctga cttggaggac aatggtaggt cagcatcatc gctttga 717

<210> 2369
<211> 648
<212> DNA
<213> A.fumigatus

<400> 2369
ccgggtcaaa agtgctggat cagtgaggag tatgaagccg tccgtctgtg gacacattac 60
atctggattt tcctggccga attcggcacg gtctgtctgt acgccgtcat gtggttccag 120
ttacgcgcgc aaatcaagca atccgcgatt ctgggaagca accacacggc cagtctgaag 180
cgtctccgtc gagtcatcgg gtacatggtt atctacccaa tcgcctacat tgtgctttca 240
cttccgctgg cggccggccg aatggctacc gctcggggca acacacctag tctggcttat 300
ttctgtgtcg ccggagcgat catcaccagt tccggtctgg tcgacgtgct gctctatact 360
ctgacgcgtc ggaacctcat cctcgaatcc gagccgagcg aagaccacag ctacaaccgc 420
ttcgccagca gcaagaaccg aaggaacgac aaccacctga ccaccatcac cgccgatccc 480
aagcacaccc gcacagacat cagcgtcttg cgcacccgga gaggccacga cgaggaggaa 540
gatcacgtcg actcgccgac gcgcgacggg tcaacagaca acatcgtcca accgggcgtc 600
gaactggccc ccatggtttt caccaggggt ggcgagcaac gtcggcga 648

<210> 2370
<211> 765
<212> DNA
<213> A.fumigatus

<400> 2370
ggtccgggca tgcgcggttg ctggtactac gtcaagctgc gacctgggct cgagtcgttc 60
ttgcagaatg tctcggagct tttcgagttg cacatttaca ccatgggtac tagagcctac 120
gcacaacata tagctggcat tatagatccg gaccgtaagc tttttggtga tcgcatcctc 180
agccgcgacg aaagcggcag cctgacggct aagaatctcc agcgattatt tccggtagat 240
acaaagatgg ttgtcatcat cgacgaccgt ggagatgtct ggcgatggag ccctaatctg 300
atcaaggttt ctccctacga ttttttcgtt gggattggag atatcaactc cagtttcctt 360
ccgaagaagc aggagttagg aggagtcgtc cagcctgcag aacaggacgc caaaggaacg 420
aaggagctac cgatgcaaca acctccccca aatcgtgcga tcgcaaagcc tgcagccgag 480
gtttcgacgc tggagcaact agtgaccatg ggcggtgggg acaatccaag gttactgcga 540
gaacagtgcg tcgcgcaaga agaaacgatc atgcaccagg tcgaggaccg cccattgctg 600
cagaagcaga aagagctgga tgcggaggat gaggcggcag aaagcggtga ttctgcctcg 660
agcgtggaag acactcaaga ttcaaccaaa cacccgacat catttattgg aggacaacga 720
tcgggaactc ttcgtactgg aagaacgact ggagcagata cataa 765

<210> 2371
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2371
tcgctggaga ttcttagccg tcaggctgcc gctttcgtcg cggctgagga tgcgatcacc 60
aaaaagctta cggtccggat ctataatgcc agctatatgt tgtgcgtagg ctctagtacc 120
catggtgtaa atgtgcaact cgaaaagctc cgagacattc tgcaagaacg actcgagccc 180
aggtcgcagc ttgacgtagt accagcaacc gcgcatgccc ggacc 225

<210> 2372
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2372

taccgaaaat catgtgcagg ttggataatc atactcaata ctcgagagat atatattggt 60
gactctttcc gaagaatgtg catggcttct tacaatgact ccttgaatat tggcacgcat 120
cccaatactg ctaatacttc tgggtatccg gttaaccaaa attataggga ttactggaat 180
acatggacca atcgtcattg ggtatga 207

<210> 2373
<211> 864
<212> DNA
<213> A.fumigatus

<400> 2373
cctgtgcaat ctttcttgca actagaaatc atttccgcct acaacctcct ggtgcacctg 60
gtgcaccagg cctccaaccc ggatattttc ctctcccgca tttgcaccta cctcgccaaa 120
cctatcacca cctcgcctca gtttggcccc accctcgcca tctccatcct gaccaccatc 180
ttcaacactc tcgctcccac cgactccagc cgtttccacg tcctcctggc catcgtcgcc 240
gtcattcgcc agtccggctc ttcgtacgcc ttcgaggctc tgaagccgca gctggccgct 300
cagctgccca cctggttgtc tgcctgggag ttggatgacg aggatgctca gaagctgcac 360
cttgctattg ccgatgccgc tcaggcttcg ggcgatcttg aattggcaca gacccatgtg 420
gtgcaggccc tgcagacaat ccccgccaac gagtcctcca gcaaggaagc gcgcgacctg 480
gccgtccgtg ccttgacctc cgccctgaag agccccgccg ttttcgattt cacttcgttg 540
accgctgccg atgccatcca ggctcttcgc tccagcgaca gcaccctgtt cgagttgctg 600
gagatcttca ccgctgacac tctggacgcc tacgaggatt tcatcgcggc caccctctc 660
gaaaccatct ctggcggtgt tctggtcgat ggcgccgagg ctctgcagac caagatgcgc 720
ctgttgaccc tggcttcgct tgcggcttcg actccctctc gctccctccc ctatactacc 780
atcgcctcgg cgctgcgcgt gcccgttgaa gatgtggaga agtgggtctt caccacgggg 840
ctccaaggat ccgcgacaat gcgc 864

<210> 2374
<211> 843
<212> DNA
<213> A.fumigatus

<400> 2374
gcgcattgtc gcggatcctt ggagccccgt ggtgaagacc cacttctcca catcttcaac 60
gggcacgcgc agcgccgagg cgatggtagt ataggggagg gagcgagagg gagtcgaagc 120
cgcaagcgaa gccagggtca acaggcgcat cttggtctgc agagcctcgg cgccatcgac 180
cagaacaccg ccagagatgg tttcgagagg ggtggccgcg atgaaatcct cgtaggcgtc 240
cagagtgtca gcggtgaaga tctccagcaa ctcgaacagg gtgctgtcgc tggagcgaag 300
agcctggatg gcatcggcag cggtcaacga agtgaaatcg aaaacggcgg ggctcttcag 360
ggcggaggtc aaggcacgga cggccaggtc gcgcgcttcc ttgctggagg actcgttggc 420
ggggattgtc tgcagggcct gcaccacatg ggtctgtgcc aattcaagat cgcccgaagc 480
ctgagcggca tcggcaatag caaggtgcag cttctgagca tcctcgtcat ccaactccca 540
ggcagacaac caggtgggca gctgagcggc cagctgcggc ttcagagcct cgaaggcgta 600
cgaagagccg gactggcgaa tgacggcgac gatggccagg aggacgtgga aacggctgga 660
gtcggtggga gcgagagtgt tgaagatggt ggtcaggatg gagatggcga gggtggggcc 720
aaactgaggc gaggtggtga taggtttggc gaggtaggtg caaatgcggg agaggaaaat 780
atccgggttg gaggcctggt gcaccaggtg caccaggagg ttgtaggcgg aaatgatttc 840
tag 843

<210> 2375
<211> 228
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (110)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2375
accatgacac tttccacacc aggaggaaaa gcagcagcca tgacactcgg tccattactg 60
ccgattgtgc tccggcatct gggccctttg tatgtcttct ggaccttgtn tatctcgttg 120
ttttctaatg caattaccaa tcgattttgt ccgtcaactg ctatctccgc gttctccagt 180
caactctaca ccaacaccga gattgattgc cacgaaccac cgggctga 228

<210> 2376
<211> 195
<212> DNA
<213> A.fumigatus

<400> 2376
agtatgatcc ctatgtttgc caccttcatc aatgcagctc atgcccagta tgaccccata 60
aggctttgct cctatttctc cgtcagctcc gatgggaagt tccttttaca tggacaatgc 120
ggaacccagg ctgtgcaatt ctgcgcaggg ttggtggctg gtgttgcttt tcctgagaga 180
atcctgttaa tgtga 195

<210> 2377
<211> 975
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (137)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2377
cagggatata caactccacc cagatgtgac ttcgacacgg ttcgaatcaa cctcactgtg 60
acctttagag gtcgacaata tgatcgatta gcgatcatgt accttgggga tgcagaggta 120
ttccgtacat cgacagntga accaaccacg aatgggattg tctggacata cattaaggag 180
atgtctcact acaatgcact gtggaaagaa ccgcaaaagc taatctttga tctgggtaat 240
ctgatatccg atgcctacac tggcagtttc aatgcaacac ttactgccgt cttctcccaa 300
cggggcacta ctattagaac agcggacatg attttgccaa tatcagcgcg caaatcagca 360
gctaatgcat cgagtgccct gattgtgcct tcagacaatg tagagatagc ctaccgattg 420
ccctccaaca cttcccgtgc tattgtgtcg atttctgctt gtggacagtc cacagaggag 480
ttctggtggt ctaacgtgtt ctcacccgac acagaatcat ttgtcaacac ggttggcgaa 540
ctctacgggt attccccctt tcgtgaaatt cagctctata tcgacggtct gcttgccggg 600
gtcatctggc catttccaat tatcttcaca gggggagttt cgcccggctt ctggcgccca 660
atagttggaa ttgatgcttt tgacctgcga cagcccgaga tagacatctc accatttctt 720
cctcttctga ctgatgggca aaaacattct tttgaaataa agatcgtggg cttggaactt 780
caagcgaacg gaactgtcag actttctgat tccgtcggca cttactgggt ggtcacggga 840
aatatctttt tgtacctcga ggaggatgca tcgcattcaa gaactgatca atcgagcgtg 900
cctcaaataa ccgcgccgac accacagttc acaattacac ggcttctcac caaaaatgcg 960
acaggcgcta acgat 975

<210> 2378
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2378
cataccggac ttctagacta tgctgccccg gaagtactgc aaggcaagtc ttacagaggc 60

aaggagcagg atatttgggc actcggtatt cttctctaca ccatcgtcta caaagaaaac 120
ccattctaca acatcgatga gatcctggac catccgctcc gaataccatt tttgccgttc 180
tcggaggaat gcattgatct gatcaaaaag atgcttgatc gcgatgttga caaccgcttg 240
acgatcacag aagttatgga gcatccatgg atgctttaca actga 285

<210> 2379
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2379
gctacaacgc ttcctgcact tccgactcgc gacgagattc ttttcttttg gataacagct 60
gggacaaacc taggaattaa gagttctata taccgacatt ttttcgctgg aagaaatatg 120
gcgacatgct cttattacgg ttttcttttt atgaaccact catccacaac ccttgcgtct 180
aacccaccta tggtttttgt ttcttttcgt ctgcgctctt gttag 225

<210> 2380
<211> 528
<212> DNA
<213> A.fumigatus

<400> 2380
gaagtcaaac tcgctcgctt aaagaagaac ccgtccaaga aggtcgtttt gaagtacgtc 60
acaaagaagc ggattctggt ggacacctgg actcgcgacc gtcggctggg gacagtgcct 120
ctggagatcc acgttctcga ctaccttcgg cgtgacggcc tgaagcaccc gaatattgtc 180
gagatggagg ggttctttga agatgatgtc aactactata tcgaaatgat gccccacggt 240
cttccgggaa tggatctttt cgattacatc gaactcaagg tgaatatgga tgaggtcgag 300
tgcaggaaca tcttccgaca ggtggtggat gctatccatc atcttcatac gaaagcgctg 360
gttgttcatc gggatatcaa agacgagaat gtgattctgg acggcgaagg caggatcaaa 420
atcatcgact ttggaagcgc tgcctatatc aagaatgggc cttttgatgt ctttgtagga 480
actattggta agtccatcac catgctgctc ctaacggtta tcgtctag 528

<210> 2381
<211> 798
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (32),(40)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2381
ccctcctatg cgttgatggc gggcgcctgg cnggatgaan acgcaggggg tgccgcgtcc 60
aagtcgtcct tgatcactcg cgacgtgccc accaaaacca ttacctgcga agtcaaaagt 120
gacgatgaga tctatgaatg gattgacaaa atctacgagc gttgccctgg catgggaggt 180
gtgagcaatc caacaaattt cagccaccgt gtccatgtcg gctttgatcc gcaaaccggc 240
gcctttgtcg gcttaccccc tgagtgggag aagctgctga ccgcgtcggc catcaccaag 300
gaggactata agaagaaccc tcaggcggtg attgaggttc tagagttcta ctccgatatc 360
aagatgcgcg aacagaaccc gcagtactac gctggattgg ccggtcctcc gtccggtcag 420
cagtcgaagc ccaacaacaa caacaacaac aacaactcgg taggcagctt gattgctcct 480
ccgaggccgc cgcctcctgg ccctgctcag cgattagaca acggtcactc gcagacgagt 540
cgctcggcaa attcgtcacc ttcgcagagg gcggagtctg atcgtgcttt ggaccagcag 600
cagcagctcg agagaatgaa ggagatggca gaacaggagc gtcgacgcgt ggaagacgag 660
acccgccggg ctcgtcagcg cgaagatgaa cagaacaaac ttgatcagga agcgtacaat 720
gcctccatcc ctaagactcg tgttcccctg gccaagcagg agcttgggcg gttacggcgg 780

cgacgcttcg atggctga 798

<210> 2382
<211> 516
<212> DNA
<213> A.fumigatus

<400> 2382
actgttcagc gcccagctcc cgctcccccct aatacttcca gcaatggcag cgcaaagaat 60
tcgcccaacg ctcgttacgc tccaaatgat ccacgttctc aggcggctcg cgcccatggc 120
aatggcacca aaacggcaca gggacccccct ccatccaagc ttcccgcgcc cgtgcaggct 180
gtgaaaccgt tgaacattgc gaacaagcag acgacacaaa aaggcaatgt tccggacagt 240
gttcgtcagg ccgaagctgc actgaccaag aaggctgaac cacgccacaa ggaggtccgc 300
atgtcggcaa tgtctgaaaa tgaggtcatg gatcgactga ggtccgttgt ctccaaggat 360
aatccgaacg agtcatacag caagcaacga aagattggac aaggagcgtc agggtcggtg 420
tatgtcgcgc gtgttaagga gcacgctgtc tcccctgtcg cacgggagct ctaccggcaa 480
tatggtcttc accacggggc tggaaggaac cgcgct 516

<210> 2383
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2383
agtctcgaca acagtctaga caagatcagc aagccacttc tgcccacttt gtaccggctg 60
ctgtccaagt cccgtactca tatggcttca gataacaatg ctaagtgccc catcgtctgc 120
actgaggagg cagcacagta tgatgtccac cctacagttc ctgtgcctaa tgggcgtgca 180
cgccagggaa acaattaa 198

<210> 2384
<211> 945
<212> DNA
<213> A.fumigatus

<400> 2384
ggcttgggtg atagcgtcga tgcatatcgc aaattcagcg ggcgcgctca tctcagtacc 60
cgcaacgtcg tctcgaataa aatggggaca gtgttcaaga cagcctatat gctcacaata 120
ccggagcttc tatattccat caaacgagcc tggtccgggg gcgtcaacat ggtcgtcctg 180
cgcgggtaca cctattctgg caattatcac aatacgacat ggcctggata tgcggccttc 240
aattttgagg tcagcgagat gtggaatcaa ttccaaccgg cttggattca tatgaaggac 300
tacctggact acatctcgcg gaatcaatac gtattgcagc aaggccgtcc acaggtcgat 360
ttggcgctgt acctttacga gaccccgtgg agcgccgtag acctgcttca ttcgaacaac 420
ataactgctg ctggtaggct ctcattgatg tgtttcaaga tggagctgac gttgatgaca 480
ggctacactt acgattatgt tgcgccggat aacctcgttt caccgcaggc tactgttcga 540
gcaaaagtcc ttgctccaga cggaccaaac tataaggccc tggtttttgc gtcgcccgaa 600
tataatatat ctactttcaa tcttgttcgg gaagatgtgg cggcacgagt ggtcaagttt 660
gcgcaaaaag gactacccgt ggtatttgtt ggcggcctcc cgcaggtgac atcaaatagt 720
caggctgggc agattgtgga ggacgggtgg cgtaggctac gaaacttgcc atccgtccaa 780
tttatttcct cacttgcaga tctccccggt gacctgagta aggcaggagt caggccagat 840
gttttgccaa gctgtactac gggtacactg cgcgtggtga agcggtccag gcccgacgac 900
gaggtggact acgtctttgt gcataacgat cagctgtata agcag 945

<210> 2385
<211> 891
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (845)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2385
catacttggc aatcttaccg ggatcggtat ttgaaaagac ttcgtggaaa gtcacgtcca 60
gggggcgagt cagcgtccac aggtcaggct cccgctgagc cggggagcac tacgagacag 120
ttccaagtcc ctggccctgc cccggcaaag tcgcatgaga gatgtgagaa tgcacctgcg 180
actacgaaga agatagacgc caggaaaaga aaaagaagtc ttgatggcga cgaaccagac 240
cggaccgaag gtcaacgaac agatgatcga ccaaagaaaa ggccagtacc agcaactcta 300
cctgagaaaa gcaccactgc tgcccgtcat agggtacatg aggagcatcc cacccatacc 360
gagccagagg tagctacagc ttcgaaacgt acagatcaac aaagaaagga agaaccgaag 420
ccaaaagata agggaggtac cactgtggta caagtccaca aaactcaaca gctaagtgaa 480
gccccagata gcatccctga caatttcctg tttgagctac cgttcttccc ctcaagtccg 540
gagtctcaag aagagccccc tcaagagcaa gacatcgaca catggatcga cgaccgtctg 600
cgaacaggca gggcagataa cgaagagcaa gtgattgagg ctctacagtg caccagcatg 660
gacccacgct tagccgacaa ggtcctagaa tatcttgctg caggaaaagg cattcctgag 720
gacatgcctg gagtttggac acccgaagat gatgaatgtg tggaagtggg cgacagccga 780
gccattgaac gagtcttgaa gaagcatgga tcagaagcgt tcgaagcacg gtggaattat 840
cttancatgg ccagggccgc aagcctttct ggaggaggta tgggcgactg a 891

<210> 2386
<211> 357
<212> DNA
<213> A.fumigatus

<400> 2386
gtgggcgata agcgcggatc cttgccgcct tcgtggttga agacggttca gagcctggga 60
gtccatccgt tactgaatca gattcgcatc cggttcatcg acctcgactc ggcctgtccc 120
ctgctgaatc cgtactttca gctttcgggg aatttatgca ccggcctctg gagcgaccgg 180
attctgtatg cgctgaatga gttccggcca caggcgcgat tcgtcgagct ccgagacggc 240
atctacccgc agtacgggcc gaactcgcag atcgtcgggg ccgtcctgcc tcgcgcacgg 300
cccctgagta tacatgcctg cgcgtacagg atcattgcgg atgctgggaa gccttga 357

<210> 2387
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (32)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2387
ccccaaacag caccttcgtg tatctattcc gntgcggggg gcgccccgca ccggcgtttg 60
gatcgttcgc ttttcatccg gcagatgctc ccggtcggtg ttcgtcatcc ccgctcgtac 120
ctggggaaga agagtttggc tgggacgatg ctcgcgcaga catttgcgtt tgtgactttt 180
aacaaggttt gtaccagcca ggtgcgttcc tttttcgttg tccatcttcc gattgagaca 240
tgctga 246

<210> 2388
<211> 255
<212> DNA

<213> A.fumigatus

<400> 2388
ggtgttcgcc agggtaacat gatcaggagt ggatccaggt ggattttcac acccaagttg 60
ttcggtgccg ccacagaggg tggcaccaat gtgttggagg tcaagtactt caagcgcaac 120
gcgtatttgg cgcagagccc ccaattgtac aaacagatgt gcattgcggg tgacatggag 180
agcgttttcg agattgctcc tgtcttccgt gctgaggaca gcaacactca cagacacctg 240
actgaggtat gctaa 255

<210> 2389
<211> 693
<212> DNA
<213> A.fumigatus

<400> 2389
tccttctttt taaagttcgc cggtctcgat ttcgagaaga cattccgcag ccattaccac 60
gaggtcttgg agtttgccga gaacctcctc gtcttcattc tcagccaact caaggagcgc 120
tacaaggatc agattgccat tatccagaag tcgtacccca aggctggcga cttcaagctt 180
cccaaggatg gcaaggcgct gagacttaac tacatggacg gtgtggctct gcttaaggaa 240
gccggagtcg atgtttctga gcaggagcga ttcgagaacg atctgaccac cgcaatggag 300
aagcagttgg gtcagatcat tcgcgataag tacgacaccg atttttacgt gctggacaag 360
ttccctatgg ccgtccggcc cttttacact aaggcctgtc cccaggaccc caggttctcg 420
aactcttatg atttcttcat gcgtggcgag gaaatcatgt ctggagcgca gcgtatcaat 480
gacatcaagg agctcgagga gtcgatgatc gcgaagggcc tcgatcccaa gcaggagggc 540
ttcgaagatt acctggctgc tttccgccag ggctgtcctc cccacgcggg tggtggcttg 600
ggcttgaacc gtatcgtcat gttcttcctg ggcctgccta atgttcgttt ggcaagtctg 660
ttccctcgcg acccccagcg cctgcgccct taa 693

<210> 2390
<211> 261
<212> DNA
<213> A.fumigatus

<400> 2390
gccactcctc gtcgtactat ttcctgccgt caactgacct ccgtttctct gtctcagcaa 60
gtggaagaga ctgcattcca gaccgtggag gcactggcta ccttcgttgc gcgcatagtc 120
accgtgcagt ttgccaacga acgagtcaca gtgagggtcg agaaacccag cgccctgtcg 180
tttgtggaga gatctggaat agaaatcacc cgctcccagg cattcttcga gaaatcagat 240
ctggaaggag gaagggtata g 261

<210> 2391
<211> 387
<212> DNA
<213> A.fumigatus

<400> 2391
ctgggctctg ttgcacagag gagacttccc tgggaatcaa caactcaggc gtctgccact 60
cttgctctag tcaaccctgt gctgtggtat ctcattgacc gcacaaaggc aggcttcctt 120
ttgtcgaccg tggtgggact agccggaaca ggtgtggtgc tggggctcaa gccggagttg 180
gtcccagcgt ccgcagacac tcctgcgact accattcctc tgttgaatgg cactgtcctg 240
gaatatgggc tgccgacggg cctcacacaa gagggtgttt cggtccgcat atggctcgca 300
agtgttctct tctgcgcctg cgtctgcttt ggcaacgtcg gccgacaact tgccattgga 360
ggaacaggca gagatcgact cggttaa 387

<210> 2392
<211> 219

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (12),(136),(139)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2392
ggttccaaat anccgcagta catgattaac gcgctgatca agaaaccgga aactttggag 60
gcttccgtca aggtagagaa aagcgctccg atggcaccga acaatgccgt catgaactac 120
atggcgcatc tgtcancana aagtatattc catacaaaag ttgatattag aatcaagtgc 180
aatcaagcca agacttacca tagtaaccca caagaatga 219

<210> 2393
<211> 1185
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (105),(238),(977)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2393
ttcatgacgg cattgttcgg tgccatcgga gcgcttttct ctaccttgac ggaagcctcc 60
aaagtttccg gtttcttgat cagcgcgtta atcatgtact gcggntattt ggaaccttac 120
catgcgatgc acccatggtt catctggata tattggatta atcccttggc atatgcctta 180
gacgcgttgc tctccatcga gttccacaac aagatcattc catgcgttgg caataacntg 240
gtgcctttcg gacctggata tgacgatact acgttccagt cttgcgctgg tgtaggtggt 300
gcggtccgtg gaatgaccta tgtgactggc gatcaatact tggcttccct tacatactct 360
tactcgcatg tctggaggaa ctttggtatt ctctgggcct ggtgggcgct tttcgtcgcg 420
gtgaccatca tcgctacgtc gcgttggaag tctgccgcgg aagctggcaa ctcgctactg 480
atcccccgtg aaacggtggc gaaacaccac gctgtggtcc gcaaggacga ggaagcacag 540
cttaatgaga aggctggcca caaaggcacc agcaccgact ctgaagccca aagcaatgtc 600
gatcagcatc tggttcggaa cacgtcggtc tttacatgga agaatcttac gtatactgtc 660
aagactccgt caggcgatcg tgttctgctg gacaacgttt acggttgggt caagcccggc 720
atgttgggcg ctctgatggg atcctccggt gccggcaaaa ccacccttt ggatgtcttg 780
gctcagcgta aaaccgacgg tactattcga ggatcgatca tggttgacgg gcgcccgttg 840
cccgtttcct tccagagatc cgcaggttac tgtgagcaac tcgacgtgca tgaacctttc 900
gctactgttc gggaggccct ggagttctcg gccttgcttc gtcaaccgcg ccatatccca 960
agagaggaga agttganata cgtggacgtc atcatcgatc tacttgagtg gcacgacctt 1020
gagcacactc ttattggccg agtgggtgca agattaagcg tcgagcagcg caagcgagtc 1080
accattggtg tggagctcgt ctcaaagccg agcattctaa ttttcctgga tgaacctact 1140
tctggcctcg accgttcatc ccccttcaac actgtccgtt tctta 1185

<210> 2394
<211> 696
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (212),(224)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2394
atttcccggg gaattaggtg ccttgggaag aatcgtttct gcaatcgata ctggtgggtc 60
gaacgccacg ggatgccgta tggcggcatg cccaacagct caacagcgga ggctcattat 120
gcaaatgttc gcttttgggt ccagggccct gatgagatgg agcgcgtggg atttatcgac 180
gtgccggacg atcagcggaa acagtatcag anagaatttc acantacccc tgcagagcgg 240
aagaagaacg aggaagggcc taccaggctt tccactgccc acgaatgggg ctattatgat 300
gatccagacg tgattgacaa attgatcgac tggttggatc cacgaggtaa tcgcgagtcc 360
agactacgca aggagctcca gctgcagcgc gaccatatag tcaaatacat gaagtgccgg 420
aagaagtacc tggagcagac agccgaacga gcagaatctg aggagctgca gacaaagcga 480
atgacaacgc ggaacaagac ctacgtggac gaccacaagc atcgctgctt gaaatggcgg 540
aacacgacag ccctgtcgga gaacggccat ctacatgttg acccttcacg gccctcaaaa 600
cgggccaaga gagtgacgga cgaatctaag gagattaagg cgacaagtcg gcagggcaag 660
ccgctgactc ggcaaggtac gcgctacaat ttctga 696

<210> 2395
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2395
agcgcaacat gtatttacaa atatccaaat aatcccccca ccttccccaa tacaatcaat 60
tcgttcaccc gtgctctaga tgcgatgctc ttccggagtg gttatatcaa aatgaaccca 120
aattttcatg gtctcgtcgc taaagtgtgt agaagaaagc gtaatgcgaa aacgcttgtt 180
gctcttccaa tgcctactcg aaaatag 207

<210> 2396
<211> 609
<212> DNA
<213> A.fumigatus

<400> 2396
aggaactgta ccacaacgag tcacatgcag ggggccgtga tccttttgat agtaaggctt 60
agacttagat gctttacaat cgacaatgtg ctgatcttgc cagtcactcg aatctgtgag 120
gtggaccacc tgtgtttctc acaaactctc gagattcaga agtatataaa taaacctggc 180
acttgggctg ctcttggtgt tccggaagcc gtccggaatt tttccattga atccaccgaa 240
gttgcttccg cgttcgagac tactactgat ctgtacagca acgttatgaa agatatcaaa 300
tacacattgg aacatggagt ggacgttttg atatacaatg ggaacttgga ccttgcatgc 360
aacaccgcgg gtaacttaag gtgggcggag gctttacgtt ggaatggaca ggcaccgttc 420
acttcagaaa aactgaaacc ttggtactcg aatgtaaggg gtagcagagt caaggccggg 480
agtttcaagg aagtcttcgc ctcaatccca aatggggtct ctggcaaaca gcgcttcgcg 540
tttgtcacgg tagataaatc tggacatatg gtgagtgcaa gtgtgatagc agctgagtac 600
ggaagctaa 609

<210> 2397
<211> 357
<212> DNA
<213> A.fumigatus

<400> 2397
gcgaactact ccccgttgtt cttcatattt ttctgcgtct ttgacacagg tgataaattg 60
aaatttcgag acctttgcc ccctaaaccc gatgaccccc cacgagtctc ccacgcagta 120
acccccacgc gaagtggaat catctggtcg ggaaaagagc tcaaccagtc atgctttgat 180
tgcacgacgc tacctgtccc caagtatgtc caaatggtcc aatacatctt ctccagtccg 240
tgtaactcca catatcccca tcactcttcc ccgcaggatg gcaaattcta tggtgttaac 300
cagctactac agtttcatcc ggttgagcta aacgctacgt accgacattc tcatcac 357

<210> 2398
<211> 456
<212> DNA
<213> A.fumigatus

<400> 2398
gtcctcggta ttgccctcac cgatacattc ggtaccccgg ctttcctcga cgccttccgc 60
aagccgatcc ctcaccatac cagcgcaggt gtcggcgccg tcgccacaat tgcatcggga 120
gcgagcacaa caagcgagtc gcagcctcag agtgaggccg aaaccaaacc cccagtcacc 180
gctcccctcc atgaaaacga ctcccagcac tctccgaaga catatgcgca ggtctacacg 240
ggcgtccgtc aggactccgg cgacccaacc tacttcgtca agatggtccg cgacttttac 300
gacaatgagg ggatcaaaga gaagaagact gtcgtgtttt cagattcgct caacatcgag 360
cactgcctcg agtacaagac cattgccgag gaggctggct tcgcccccat cttcggtgtc 420
gggactttct tcaccagtga gttctatccc gtctag 456

<210> 2399
<211> 744
<212> DNA
<213> A.fumigatus

<400> 2399
cgcagacaag ccactcatca tcatactagg tcctcggtat tgccctcacc gatacattcg 60
gtaccccggc tttcctcgac gccttccgca agccgatccc tcaccatacc agcgcaggtg 120
tcggcgccgt cgccacaatt gcatcgggag cgagcacaac aagcgagtcg cagcctcaga 180
gtgaggccga aaccaaaccc ccagtcaccg ctcccctcca tgaaaacgac tcccagcact 240
ctccgaagac atatgcgcag gtctacacgg gcgtccgtca ggactccggc gacccaacct 300
acttcgtcaa gatggtccgc gacttttacg acaatgaggg gatcaaagag aagaagactg 360
tcgtgttttc agattcgctc aacatcgagc actgcctcga gtacaagacc attgccgagg 420
aggctggctt cgccccccatc ttcggtgtcg ggactttctt caccagtgag ttctatcccg 480
tctagtcccc agtctacagt ttcactaacc gttctacttg cagacgattt tacgaataaa 540
tctgacggca agaaatccaa gccactcaac atcgtcatca agatcgctac ggctaacggc 600
cgcccggccg tcaagctgag cgacaacatg ggcaagaaca cgggcgacaa aaatatggtg 660
caagaggtga agaagaggct aggatacatc gagcactact gggaagaagg cgatgagagc 720
aatcgctggg ctaagcacgg atag 744

<210> 2400
<211> 345
<212> DNA
<213> A.fumigatus

<400> 2400
aaactaagcg ctggatcctg ccggcctcgt ctggtagaag acgagtggtt cgtggccatc 60
gctgccatca cggatgatta cgagaatgcg aacgagctgg ctctccgcta ctggctcgga 120
tgtttcggcg aaggggtacg tatcagttcc ctcttagatg acgcagacaa gccactcatc 180
atcatactag gtcctcggta ttgccctcac cgatacattc ggtaccccgg ctttcctcga 240
cgccttccgc aagccgatcc ctcaccatac cagcgcaggt gtcggcgccg tcgccacaat 300
tgcatcggga gcgagcacaa caagcgagtc gcagcctcag agtga 345

<210> 2401
<211> 213
<212> DNA
<213> A.fumigatus

<400> 2401
atgcttcgag aacgggggaa gggcacatat acagtgccgt ttccctctcc aaggagaata 60
aacgcggttt ctaacagcac tgcctatgtg tacgacgtca tggagcgctt ttatttccgc 120

ttgggaaccc ttgatgaaca ctctgacgtc ctcccgcagc tgtcagcaca gctacacgac 180
ctgatcaagc ggatggtgct tgtggcatgc tga 213

<210> 2402
<211> 939
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (328),(450)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2402
gggtatgtca ccaccatgat cgccagattt cccgcatcga gacctgcgta tgttgatgac 60
gtattgttct taacaacaaa aggtatcggc cacccgacaa ctgtgtcccc aagctcctat 120
gtgacgccgt acacccccct ggtgtcggac gctcaagagg ctgagaccac cctcaaggcc 180
ggcgagatcg tcaagatcca actcggtgct cagatcgatg gatttggtac cattgtttgc 240
gacatggttg tcgttgccga caaggagtcg cccaaggatg ttgtgactgg tcgcgaggct 300
gacctcatcc acgctaccca ctacgcanac gagcttctgc tgagactcat ggtgccccca 360
ggtcttctgg ctagcggtac cgaggaggag aagaaaaagg ccgctgccga gaagcccccc 420
acccagagcc agatctccgc cctcatcgan aaggtagcca aggcttatga ctgtaatgtc 480
gttgagaaca ctaccagttg gttgattgag cgcaacgaaa ttgaaggtgg gaagaagatc 540
atccttgccc ccggctctgg cgtgaagggt gagggtgttc ccgacgttgg cgaagtctgg 600
ggtgttgaag ttggtctctc ccttggttcc ggaaaggtca agacccttcc tcaccgcgct 660
accttgcatc gccgtaccac taccacctac atccttaaga gacccagctc cagacagact 720
ctgtccgaga tcgtcaagaa atttggcaca ttccccttca gtttgcgaca gctggaggac 780
gagaagtctg ccaaggtcgg tgttgtggag tgtgtccgtg gcggtgtctt gagacagtat 840
gagcccgctg gtgatgccga taacgctcct gtttcccgtc tgttgaccac cattggtatg 900
ttcatcactt gttcaacgga atattcccgc tttcgctaa 939

<210> 2403
<211> 201
<212> DNA
<213> A.fumigatus

<400> 2403
cgaggattaa tagccatcac gaagaacggt atcaccagat tggccgcgcc taaccctcct 60
gatctgtcca agttccagac ggacaagaag atcgaggatg aggagatcct gaagattctg 120
gagcgtcctt tggccagaaa cactggcaat aagaacaaga agaagaagaa gcctactaag 180
gattccaagg atgaggaata g 201

<210> 2404
<211> 468
<212> DNA
<213> A.fumigatus

<400> 2404
ttacatgcag ctggtgtcta cctgaagaat agaatcaacc gcggatggtc gcccgtcgaa 60
gacagccccc tgcgcgcacc gattccagag gctgaaaagc ccggcttccg agagaggcta 120
atcccagcgc tcgcatcaac tcctcccaat gtccgcgcac agcttgttcc tctcctccaa 180
aagatacttc agcatgattt ccctgagcag tggccgggct ttctggatat tacacttcag 240
ttgctgggca ccaacaatgc gaactccgtc tacgctggtc tacaatgtct gctggccatc 300
tgccgtgttt acagattcaa ggctggagaa aagagggagg aattcgacaa gattgtcgag 360
cactcatttc cccagcttct gaacattggg ttgaaactgg gtgacgagga aagcctggag 420
gcagccgaaa tgctccggat tgtggtccag tcctacaaac cttgctaa 468

<210> 2405
<211> 384
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (307)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2405
agaccgaaat tcgcattcaa tttccgggat gtcacatctg gtattttcaa ggatatccct 60
cgtaacgagt tgtttatccg agtgcagccc aacgagtcgg tgtacatcaa gatgaactcc 120
aagttgcctg gcttgtccat gcagaccgtc atgactgagc tggatctcac ctatcgccgc 180
cgtttctctg acttgaagat tcccgaagcc tacgaatcgc tcatcctgga cgctctgaag 240
ggtgaccact ctaattttgt gcgtgacgat gagctcgacg caagctggaa gattttcacg 300
cctctcntac actaccttga cgacaacaag gagatcatcc ccatggaata cccctacggt 360
atgtgccata acatactctt ctaa 384

<210> 2406
<211> 741
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (659),(736)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2406
tcggctgacg tttttgactg cagtgatatt gaacacatct ggcaaatggc ctggcgactc 60
ggattctacc gcggagggcc ggtcttcatg tccgccatct ccggcatcta cattgcactc 120
tgggatctca agggccgccg gctcggcgtc cccgtccatc agctccttgg aggaaaagtc 180
aggaacaagc tctccgtcta tgcctggatc ggcggagacc gtccaggcga cgtcgaagcc 240
gcgggcaaag cacgactagc gcaggggttc aaagcgatca agatgaacgc tacagaagac 300
atcaactggc tggattcacc aagtgtgctc gactcatgcg tcgagcgcct caaggccgtc 360
aaggcgctcg gcctcgatgc cgccctcgac ttccacggcc ggctgcacaa gcccatggcg 420
aaacagctcg ccaaggccct cgaacctcac cggccgctgt tccttgagga acctctcctc 480
tccgagcacc cggagggcat caagcagctc gcggatcagg tctcctgccc catcgcgcta 540
ggcgagcgac tctacaaccg ttgggacgtg aagcggttcc tcgaggacgc gagcgtcgac 600
atcctccagc cggatatcag ccattgcggt gggatttccg agctgcggcg cattgcctnc 660
atggcggaaa cgtatgatgt tgccattgca cctcatttgt ccctggggcc cgattgcctt 720
ggcggcatgc atgcangttg a 741

<210> 2407
<211> 282
<212> DNA
<213> A.fumigatus

<400> 2407
ccttcaagcg tactctcccc ccagccatat tggccctctt cctccacaat cttgaacaac 60
aaccatcctg gtacggaccc ggaaattttc gatcctcctg atcttgggcc ctggtgtcca 120
attcctgcag gaaattgccg gggaaatttt ggcattatgg aactgccccc tccctccctt 180
aatttaacca aaattcggcc tggctggaac aacaattgga atgggcccaa gtttaaccca 240
attatccctt tactctgtcc caagggatcc attttttttt aa 282

<210> 2408
<211> 726
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (603)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2408
gtctggcgca tcaaccgtga gcgtgctgtt gactacctca acactcgtaa ccgcatctat 60
gttattgatg gttatgccgg ctgggatgaa agataccgca tcagtgtccg tgtcgtctgc 120
gcacgcgcct accatgctct cttcatgcgc aacatgctga tccgcccctc gcccgaggag 180
ttggagcact tccaccctga ctatgttatc tacaacgccg gttctttccc tgccaaccgt 240
ttcaccgagg gcatgacctc agctacatcg gtagctatca acttcgccga gaaggagatg 300
gttatcctgg gtaccgagta cgccggtgag atgaagaagg gtgttttcac cattctcttt 360
tacgaaatgc ctgtgaagca caatgtcctg accctgcact cctcggctaa cgagggtgag 420
aacggcgatg tgactgtgtt cttcggtctg tccggcactg gcaagacaac tctgtctgct 480
gaccccaagc gtgcactgat tggtgatgat gagcactgct ggactgaccg cggagtcttc 540
aacatcgaag gtggttgcta cgcgaagtgc attggcctct ccgccgagaa aggacccgat 600
atnttcaacg ccatccgctt cggatccgtg ctcgagaacg tcgtcttcga acctatcagc 660
cgtgtgggtc actacgatga ttcaccctca ctgagaacaa ccgctgcgcc taccccattg 720
agttaa 726

<210> 2409
<211> 423
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (79)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2409
atcatcgtag tgacccacac ggctgatagg ttcgaagacg acgttctcga gcacggatcc 60
gaagcggatg gcgttgaana tatcgggtcc tttctcggcg gagaggccaa tgcacttcgc 120
gtagcaacca ccttcgatgt tgaagactcc gcggtcagtc cagcagtgct catcatcacc 180
aatcagtgca cgcttggggt cagcagacag agttgtcttg ccagtgccgg acagaccgaa 240
gaacacagtc acatcgccgt tctcaccctc gttagccgag gagtgcaggg tcaggacatt 300
gtgcttcaca ggcatttcgt aaaagagaat ggtgaaaaca cccttcttca tctcaccggc 360
gtactcggta cccaggataa ccatctcctt ctcggcgaag ttgatagcta ccgatgtagc 420
tga 423

<210> 2410
<211> 270
<212> DNA
<213> A.fumigatus

<400> 2410
ttccccatag cgccaccgtc ggatccttcc agccccgtgg tgaagacaat tgtctacctg 60
gaggctcaaa aaactcggtt gattgaagac aatgacgagc cggctccctt taggtatgag 120
atcgcgtctt tccctgaact ccattatcct gaactccaca gcagttggaa gaatagattt 180
gacatatcgc attcaatatt agacaacgtc gaccattctt ctacctatct ggatgtcctc 240

taccggactc ttgtctggtt tacgatctga 270

<210> 2411
<211> 789
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (759)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2411
catatcgcat tcaatattag acaacgtcga ccattcttct acctatctgg atgtcctcta 60
ccggactctt gtctggttta cgatctgagt gaggaccaac ttactctgtt cattcctcca 120
gttgacccgg aggatgtgat ctggtccggt ctccccatgt ctactgagga ggctcaaaac 180
caatacgacg tcgatcgcgt gttggtgact actgaactca atagcacgct cgcgtcaatt 240
gtttccagcc atggtggtaa ggccattgct tttaccattg cagatcaagt ctccgaaagc 300
acgcaattcc acggtttctc cgaggtgaac cactccgtgc tgaagggagt catcgagcag 360
tctcgcgtgg tcaaggatga gtatgaagtg gcgttactga ggaaagcaaa tgatatttcc 420
gccaaggcgc acattgcagc tattaaggca tctcaaactg ccgtgaatga gcgtgaaatc 480
gagggcgctt ttattgcaac ctgtatcgct aatggggctc gagagcagtc ctatcaccct 540
atcgtcgctt gtggcgagaa tggtgccact cttcactatg ggaagaatga tgatacccta 600
atcgaccccg tgacaaatca gaagaaacgc aacgtactta ttgatgccgg tggagagtat 660
cgcacctact gtgcagacat cactcgcgtt atccccgtag ggggggaaat tcactggcaa 720
aaacgcggca gaactacgaa attggcccgg caaatgcana acagaatgta ttggcaagct 780
ttagggagc 789

<210> 2412
<211> 414
<212> DNA
<213> A.fumigatus

<400> 2412
aaaaccttca cacctgtcaa tgaggttatt cccaaaacgt taatgttccc gccttggaac 60
aacaagggaa tctctccttc ctggggacaa aggcaaaccg tttattcccg cgattccccg 120
gcgcagaaaa aagaattcaa ccggaaaacc aaaatcggcg cgcgaaaacg gatcaggaag 180
tcgcgccttc ttaaggatta cgatcctaac aaggttcccg atccggaacg ctggttgccg 240
ttccgcgacc ggtccacgta tcggcccaag gggcgaaagg gcaagcagcg tgctgttaag 300
agaatgcagg gtggtgttgt cacgagaaag gcggaggaca cgctggctcc cacacagcca 360
aaagctcaag gtggaggcgc cagttccaag aagaagaaga agggaaagcg gtag 414

<210> 2413
<211> 483
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (475),(476),(478)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2413
ctcacgcatc tacagtcaga tgaaacaaaa atttgcgtgg tcatggttgg tcttccagcc 60
aggggcaaga gcctcatagc tggaaagggt aggtacactc tcattcgttt gaatatccac 120
gatagggggc tgacgatact atatctagcg atgcggtatc ttgcttgggt tggtattcca 180

gcgaaagtgt tcaatgtcgg cacctatcgt cgccagggaa ctccacagcc aacagctacc 240
ttttttgacc cccataacac cgaaggggag agaatgagga gagccgctgc agaggccgca 300
atgtcagaca tgctcaactg gttcaaagcc ggcaaaggcg ttgtagctat tcttgatgcg 360
accaactcca caaaatcgcg acgtcagtgg atctatgaga cttgtcgcga tgctgatatt 420
gagactctgt ttgtcgagtc ttcacccggg gctgaaaggc agtcagttca aaaannancc 480
ccc 483

<210> 2414
<211> 1302
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (69),(106),(109),(110)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2414
aattcaaatg aacagttacc cagcaatccg gacgcaagca attccggtgg gagccttgtt 60
cccccaggnt gggtgaacac gcccgccaag ccaatggtcc gttctngann ggaggttcat 120
ttggacgatg tcgtgcgcca ttccctttt gaccagtaca tcttgttcac gggcggcttc 180
ggtttcattg gcagtcacac aacattggaa ctgctcaaga ccaattataa tgtgattgtg 240
atcgacaata tcagcaactc ctttcagatc gtcttcgacc gcatcaagct gttagcctcc 300
cagtaccatg agcggcaggg gaccaagatg ccgtcgctgc acttgcatgc acacgactat 360
cgtgacactg ctgctctcaa ggcactttta gaacagcacc agacccagac ccgatggggt 420
acgaccaagt ccaagatatc tggtgtcatt cacttcgctg cctacaaggc agtggaggag 480
agcatccgca acccactcaa gtactatgcc aacaacgtca gcggcctcat cgactttgcc 540
acgaccctgg gtgactatgg catcaagact tttatcttct cctcgtcggc cacagtgtac 600
ggcaccttgg caacctccgg tctcccccctg aaggaagagc tgtgcacgca caaagaggag 660
atctataccg accacgacgg gagtgaacgc attgtccagc ccggctgtac aggcatcacc 720
aacccctatg gccgtaccaa atggatctgc gaggccatcc tggcggacct cgccgcctcc 780
gacccagaat ggactatcgt cgctctgcgg tacttcaacc ccatcggatg tgacgagtcc 840
ggcctcctcg gagaagaccc cagacagact cccacaaact tacttcctgt cgtcgtcaaa 900
gtcatgacag gcgagtaccg ggagttgcag atgttcggaa ctgactggaa tactgaggac 960
gggacggccg tccgggactt catccacgtc accgaccttg cgcgcggcca catcgcggct 1020
ctcagcgcag ccaacgaagg caaactggcc gagaacttcc gcacgttcaa catgggaacc 1080
ggtcgcggac actccgtcaa ggaagtagtc gagaccatgg aggaagtttc ctccaagcac 1140
atcccccgaa gggcggctga tcgccgcgcg ggggatgtgg gctcctgcgt cgccgtggcc 1200
acgcgatcgc agcaggagct caactggaag acggaaaagt cactcaagga tgcttgtgtg 1260
agcttgtgca atttccttgg aagcagaggg ttatctactt ag 1302

<210> 2415
<211> 537
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4),(54)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2415
cgcngagttt ttcacggcgc aacaaagcct ttttcgccca gtcgcatccg tgcnatggag 60
acgggcggat gtccgcacgc cgcgttccgc gaggacatca gcgcgaacct actcgccctg 120
cagaccctcc agaaacagtt ccagacggat ctgctgctca ttgagtctgg gggggataac 180
ctcgctgcga actactcacg cgagctggcg gatttcatca tctatgtgat tgatgtagcg 240

ggcggtgata aggtgccccg taagggcggg cctgggatta cgggctcgga tctgctagtt 300
gtgaacaaga ttgatcttgc cgaggcagtg ggcgcggatt tgaaggttat ggagcgcgat 360
gcggcgaaga tgagggaggg gggcccgacg gtgttcgccg tggtcaagca ggggaagggg 420
gtggatcata ttgtgaattt gattctgagt gcgtggaagg cgagcggggg gtatgaggtt 480
agtctggaga ggtggaagaa tggggcgccg aagaattcgg ggagtgtgga tgaatag 537

<210> 2416
<211> 204
<212> DNA
<213> A.fumigatus

<400> 2416
tccacccccct tcccctgctt gaccacggcg aacaccgtcg ggccccccctc cctcatcttc 60
gccgcatcgc gctccataac cttcaaatcc gcgcccactg cctcggcaag atcaatcttg 120
ttcacaacta gcagatccga gcccgtaatc ccaggcccgc ccttacgggg caccttatca 180
ccgcccgcta catcaatcac atag 204

<210> 2417
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2417
agggtcttgc ccaccctcca tgtttgcagc gtggcttatt ggttacacag accgcaccta 60
tgcccaagtc ttgctgctaa tttagactct tgggcgctct gtctgcaatt gaatctgaac 120
ctgccacgct tcgagttaca aacaatgggc ggcataaaat ccttcaagga gcccagaacc 180
ccttttttcct actggaaaca aatcaaagtg 210

<210> 2418
<211> 933
<212> DNA
<213> A.fumigatus

<400> 2418
ggaacaatgg tggtagcggc atcacatctc gcccttattg atgaggaaat ccatcagttg 60
atgcacgctg ctcgatgcgg ggacatagtc cagcttagat cgcttcttta tggcgtatcc 120
cccgacatca gagacagtac gggccgaacc gccttctcct gggcggcttc atacgatttg 180
acccaatcac cggagacata caacaattgc aaccttgtgt tgcaattcct cctcgatcga 240
ggagctaacc ccgatcttgc ggattaccat ggtgaaacac cgcttcattg ggctgttaaa 300
gggggcgact accgcatggt cgatttgcta ttgcagaaaa atgtcgaatc ggacttgcca 360
gactcgcgaa gccgcacgcc attgtcgagg gcggcagagc gaggttatga tcgggtggtg 420
gaggtcctat taaccaaagg taaagcggat gcggactaca aggatgcacg aggtcggacg 480
ccactctcgt gggctgcgga gaattggcat ctggagacag caaccattct ggtgaatcat 540
ggtgccagcg tggacattca tgatagagag ggacagctac ccttatggtg gtttatcagt 600
aacacaatca agcgaacagc gatggagcag cagtatcagc ccgggaaagg agattatctt 660
caaaaatggc tcactctatt gggacccaag cacggcgtcg agcctatgac gaaagctcgg 720
aggacattcc tctcctgggc ttgcgagaaa ggcgatcaag aacttgtcaa gcatttttg 780
cagaccgcct gggctgaccc taactccatc gaccggtata ggaagacacc cttgatctac 840
gcgctagaat ggaaccacta cgagatcgca gacatgctga tctctggggt taagacgggg 900
acactcttcc aaaggtattc accaagcggg ccc 933

<210> 2419
<211> 1161
<212> DNA
<213> A.fumigatus

<400> 2419
cacagaaggg aaaatgatga cgtcgaagca cgtcaagaat cgaacccatc ggagagcagc 60
cctgcgccaa gcgagcctag gagaatcttc tctccaaagt cctggacgaa cgacaacgcc 120
aaggtaccgt ttttgggcca ttcgcgcgtc aagaaattgc gcgaggagac agtggatctt 180
tccgctgtgc ttcgtgggga ggaaacccct cggcacattc gtcgctatta tggtcaaagc 240
agccctgctg aaaagagtgc gaacggagat tcaccgcagc aacaacgatc aaatcccgat 300
tttccggaag agaatgcgga agatcatggg ctcgaagacg accagggctc acgcatctat 360
ctggattcaa gccctaacag ggcttcggat gatgacacat ttcagatcga ccctactaca 420
aggcatgaga gcgaaatgca acgtgcagac cagatggcgg aggagatcga gaacgagcat 480
attccagcta ccgcgctagc cgacaaacgt tccgtctacg aagaaaatag tactcctcct 540
gctcagaatc gacagtttgg tggagatggt caggcatcaa cctggtttca gaagattact 600
agtcttactc ccggttggtt gaaagctcca gttcgcaagt cattcgcacc acccagtcct 660
gggtatggag aaggctcaga agaggagcct gacgtcagat cggccaacgc acagacgctt 720
cttgacaacc aactgtatcc cgaagagacg gatgaaacat caaggcaggg tctgcagtca 780
ccggagcaga ataacacgca gccggactcg cctacgtcaa gtgccgctcg acccgtcgaa 840
gatgtcagag tcgagaccta cgaacctcac tttccgctcg ctgtctcagg atatttcaca 900
gacaatcact acgttctcct gcgacggctt tatcgattgg caaaacgtca cccagaacgg 960
tttccttact atccagcacc tggccgctct gacatcattg gcgattggat ttggacatcg 1020
gacggtgagc atggggtgcg tgttactgaa acccagtttg ccatcattga ccgatttgtg 1080
caagagctgg ctcgtggcga cctgcaggcg ggtggaacgg cccagattgt cttcaccacg 1140
aaggcgcgag gatccggcta a 1161

<210> 2420
<211> 243
<212> DNA
<213> A.fumigatus

<400> 2420
ttgagtgaag tagatgaagg cggctgcgtg tctccaaggt ttgacgtgtt gcacaaaagc 60
cttgcagagt acaaggttct ggagcgtgga cctaaactta aatcaggcaa cgcgagtcaa 120
cccagcatca ctttcttcga cccttccagc ttcagtacag gaaccggaat cgttgccgta 180
atacaagata cttttaagaa acggcaccaa acccctcgct gccaaaggtc cacccatttg 240
tga 243

<210> 2421
<211> 312
<212> DNA
<213> A.fumigatus

<400> 2421
agctctacaa tttactatgg agtgttcacc tcctggtcat gctctgcgaa tctaattcca 60
ttatggcgca aaccacttgt cttccaaaag ctctgctgcg gaaggtcagt ctcttgggtc 120
aatctttata ttatttttcaa aacaaactcc ttgtcctcct tggatatctc ctcttctgaa 180
atctgggaga aaagctttct cctttcaggg gaaatacctt gcatgatata tgtaaagact 240
tccaacttct ccagagggca tatttcgcga tatgtcaaag gaaagggccc taagaactca 300
cattacctct ga 312

<210> 2422
<211> 366
<212> DNA
<213> A.fumigatus

<400> 2422
acaactccct gtcaagttca accgtccaat tcttccaccc agcctgttgc aacatttcaa 60
atgcactcct ggatcgatat ccccccttcgt gatggaaaag acgcggatga gtgggaatta 120
actgaatcca aagccatcgc caacatcgac cagtggtatc aagaaggacg actgctcttc 180

ccccgcgatt ccctccagga agtgcgcgac cagctgcgga agccgcttaa aaagggcgac 240
tccatttatg tgaaagggtt cgatgggtcg atgtatgaat ggcctgtgaa aaccggcaac 300
atcaaaacgc attgggaggc tgacaataac acgggagagg agaaacaggt ggattggatg 360
ctgtga 366

<210> 2423
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2423
aattcagccc aattaaagac ccgaatcatc acttcattgc gccgattacc agatagaagg 60
tacaacaacc caatctatgc tcgaccaact cgcatcgcct cttacaccgt agtagacagc 120
gtcggactat attccgtctc tctacccgac gaagtcgctc atagtataaa acagccgcac 180
aaggatccca ctcctcacaa tatctatgtg gcaggtttca aatga 225

<210> 2424
<211> 996
<212> DNA
<213> A.fumigatus

<400> 2424
tacccaacca cgggggggtc ggtacgatgg cattctgggg gtgatggcag cgctggaagt 60
gctacgaaca atgaaggaga acggatatca gacctattac gacgtaggaa ttgtcaattg 120
gacaaagtga gaccctgccc tagtcctctc gtatttcttc taactcgttg cagtgaagaa 180
ggagctcgat tccctaagtc aatgtgctcc tctggggtct gggctggagc cattccgatc 240
gagaaagcct gggatcttcg tgatatacat gattcaaatg tcacactaaa atcagagctc 300
gagagacacg gatttctcgg ccaactcgag tgctctcaca ctgcttatcc cctcgcagcg 360
cattttgagc tgcatatcga acagggcccc atcttacaag agaccgggcg ttccattggc 420
gttgtccagg gcgcacaagg atacaggtgg cttactttta cagtcaaggg acgcgatacg 480
cacacaggca cgacgccctt gagtgcccgc caggatcccc tacttgcagc ctcgcggatg 540
attgcagcgt cgaatgacat cgctcgaaag cacaatgctc ttgcttcgac tgggatattc 600
gaaatacctt ccaacgcatc gactaatacg gttgcatccg aggtttcttt cacgcttgat 660
atccgacaac cgcaggatgg ggtggtccat accgtgcagg aagaatgtct ccaggcattc 720
tcagccattg ccgctcagga cggaaaggga gtcaccttcg actggacgtt ggacaccgat 780
tccccggctg tgaagtttga tcaggggtgc ctcgagtcca ttcaggcagc ggccaaccat 840
ctcgtgggtc ccgaccagtg gatgaacata tccagcggcg ctggccacga tagcgtgtat 900
accagccatc actgtccgac cgccatgatt tttgtgccct gccacgaccg cgttagtcac 960
catccaacgg aatacttgtg tcccgaacac tggtaa 996

<210> 2425
<211> 345
<212> DNA
<213> A.fumigatus

<400> 2425
agactagagc tcatcataaa cagggacccg acggacactg ggatggctcg tctcacgctg 60
gacgataacg atgcctctgt gcggcgatgg ttcgccgccg aagtcgacaa actcggatgt 120
tcactgtcca tagatcagat ggggaacatg tttgcacgcc agcaaggtaa gttgcagaca 180
tctgccccca tggttgctat gggaagccat cttgataccc aaccacgggg gggtcggtac 240
gatggcattc tgggggtgat ggcagcgctg gaagtgctac gaacaatgaa ggagaacgga 300
tatcagacct attacgacgt aggaattgtc aattggacaa agtga 345

<210> 2426
<211> 420
<212> DNA

<213> A.fumigatus

<400> 2426
gaccaaattt ggaaggggta tggaaaccaa gccgtggttg tgagtgttga tcccaagcga 60
gtttatgtca caagcccgga tgacactgag caccatacga tcaaaacgaa gtacccgtac 120
gccagcggcc agagttattg ctggtatcag tgtacaatta agggtggcag agagagtcgt 180
gatattgacg tccgacagct ggtgaaggct gttgaagcca tgggtgctgg cgaaatttta 240
ctgaactgta tcgacaagga tggaagtaac agtggatttg acctggagtt aatcaacgat 300
gtcaaggctg ctagcaagat ccctgtcatt gcttcaagcg gtgctggtgt cccaaagcat 360
tttgaagatg tcttccgata tacaacaacc gatgcggcat taggtgctgg aatggtatga 420

<210> 2427
<211> 276
<212> DNA
<213> A.fumigatus

<400> 2427
atcgcttgtc cgcgaatctc ttatctacca tcattattac ccaggttaag agccttcttc 60
tcaccatcac taattgaacc caactcgcaa ccccacgagg gctggttctc cttcgaagga 120
gtcccgctga aatggcacct ccccgtcggg ttgctgtatg acctttacgc gggcgcagac 180
cccgcatcca aggggacaag agtagacgaa acagaccatc ccaccagcag cgtcttcacc 240
acggggctgg aaggatccga cgcgggcgct atagcg 276

<210> 2428
<211> 759
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (32),(182)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2428
agaagaatgt tgaaaccttt atccacaacc cncggtccga agaagcgcaa ctcctcgggc 60
agttcgagcg gaaaaaggca gccattgcaa cggaacaaga ggaccgggaa caagagaagt 120
tgcggcagct catggaacgc ttgttcaccg agcccaaaac ttacttttac tcctcaccaa 180
tngacggccc cttccaaggc aaaatcccct ccaccacccg tcaaggcacc cgggtacccg 240
ggtccaggca ttgcctctcc tcaaatgtca ccacactttg cgcctggtgt tgctggccaa 300
cagcatggca tccctctctc ccattccccc gcaccttatg gtcaatatgt cgctccgcca 360
agcggcgtct cttacatgca ggggcagccg ttccaacagg gcgctgcggc accgttgtca 420
gagggctaca acccaatggc atatccggcg cctacttcaa tctctcctcc ccctagtcag 480
caatactatt cgtccacgcc cgctccctac agcggatact cgaatccggc accgccaaac 540
gctccgtcac agttcatgcc acagggttac gtgccccctc caccaccgcc acggccgcag 600
caaccatcct acccacccctc tacaggccca tacccgtccg gtcctggggg atacgcacaa 660
agcaggccgt acggaacgag ccagcaccac aagacgccct cacagtctca gtcatcctcc 720
tcaactgacc catgggcggg cctcaacgcg tggaaatga 759

<210> 2429
<211> 246
<212> DNA
<213> A.fumigatus

<400> 2429
caagcaccag gcaagtatgt ttatcccccc caccccttcc tccgccttga ccccaactac 60
cccaggcaag gactgaccaa agggctaatg gaagggatag ctgatcgacc tagcaaaagt 120

gtccagggct attatggtgt cttgattaca tcggagggat tggactactc agtggtcgtg 180
aatcatacaa ttaaatccgc gacgcccaga cagatctata ccgctctcca gaggattgat 240
cattga 246

<210> 2430
<211> 336
<212> DNA
<213> A.fumigatus

<400> 2430
cagggaggac agctcaacta tctgaccaag tacctcgaac ttctcgatac cgtcttcctg 60
ttcctcaaga agaagccctt gaccttcctt catacctacc accatggtgc caccgccctt 120
ctgtgctaca ctcagcttat cggtttgact gctgtccaat gggttgtcat tgatatcaat 180
ctgcttgttc acgttgtcat gtactggtac tacttccaga gtgctcgtgg cattcgaatc 240
tggtggaagg agtggatcac ccgtctccag attatccagt ttgtcatcga ccttggtacg 300
tactccgaaa atacaccttt gtcacgcgcg tgctaa 336

<210> 2431
<211> 348
<212> DNA
<213> A.fumigatus

<400> 2431
acatcaggct ttgtttactt cgcttcttac acctacttct cctctaccta cttcccctgg 60
gctcccaaca tgggcaagtg tgccggagag gagtttgccg ctttctcggg catagctatc 120
atcagctctt acctcttttt gttcatctcc ttctacattg ccacctacaa gaagactgcc 180
aagactggtc gccctcgtcg caatactgga aagcagtccc tggttgacat gaagaacttt 240
gaggtcccct ccgtcactcc tgctgccaat agcaaggcca catcaaacgg agcggcagtg 300
gcaagtggcc gggccaatgg tcccgtcact cgttctcgca aggcttag 348

<210> 2432
<211> 546
<212> DNA
<213> A.fumigatus

<400> 2432
cgccaattat ccaaactcct tttctctttc gacatggcgg ctccaggtgg gcctagccca 60
cagcagattg ctgccatgca gcagcagttc gccgcggaag cagcgagacg aggattgacc 120
cccgaggaat ttgcaagaca gcagcgcgaa caactgaatg ccgaggccgc gaagcacggc 180
atgacgaccg aacaatacgt ccatcaattg aggatgcgag ctatggccgc gcaccagcag 240
cagatggccc agcaacaggc tcaagcagcg cagcagcagg gacaagcagg gccccagcag 300
cagcaacagc aacagcaaca acaggggcag tctggacagc cctctccacc tcagcaacag 360
atgcagcaag tccccgtgaa cccgtcgaat cctccagacc ctagagcgat cgcggttgcc 420
cagttcctac gctcccagaa cctcaagtct cgcacgtgta tcctagacgg acaaagaaag 480
gacatgttta agggtacttt ttctcccata cttctaacga gtctccgact cagtactgat 540
gagtag 546

<210> 2433
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (165),(179)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2433
cgagtctccg actcagtact gatgagtagc atagtcaaac gcgccatccg cgccctcgaa 60
tcccccgcct acgccaaagc cgccgccaaa aagaactctc tcctcccccc cgtcaccgac 120
cgcgcctccg ccgaaaacgt cttcaaactc tccctttttc ccttnttgcc ctgcgcgtnt 180
ccaaagtcga cccgcatgct ggccacaacc atgccaaacc aaagacccgc gtaa 234

<210> 2434
<211> 309
<212> DNA
<213> A.fumigatus

<400> 2434
attactcaca cgccctctca ctgtcactat atctactgct acttctactc tcctctctca 60
ctttccctcc tacaacctcc tttatcatcg tgcgcctcct atttctcctc cagcctccat 120
acttttcccc tcactgtaca gaacaactca ctactttctc gacaatttac ctctccaaca 180
acaaacatgg catccccaga aaaagccaaa cccgagggta tcttgggcct ctccgccgcc 240
gaagccaaga tcctcatcct aggctttctc tgcattacag accaatacaa ggtacacacc 300
cgcccatga 309

<210> 2435
<211> 396
<212> DNA
<213> A.fumigatus

<400> 2435
atcgactacg aaaagctcgc cagcaagggc ggctacacag ctggctccgc gaacgtcatg 60
ttcaacaaag ccaaacgcaa gctcaccgag ctcaaccccg acaacagcac cgagaatggc 120
tcgtccgctg ccggcgaagc ctcgtcctcg aagtctgcaa cggctacacc caagaaagga 180
caggctaagc gtaagaaggc tgccggtgct acagatgcgg aggatggtgg tgccgatggc 240
gaagaagctg caacgccgac caagcccaag cggcagagaa aggcgcctgt gaagaagggg 300
acggatgcta aggctggtgc tgacagtgtc gaaaatgggt atgttacttg ggtcttccgc 360
tctatcttgt tcgattacca cattggagat tgctaa 396

<210> 2436
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2436
aagaacatct ctgatcttgg cgatctcgct gccgctatca aacaacgaca agccaaccgc 60
atggaatcgc tcatggaaaa atggcagaca gaggcggaca cgctcgaggg aggcaacggc 120
aagcgcacta aacggaagac tctttttgag gagccgcccg aggaagcgtt tgctgccacc 180
gctgctcgcc aggcttccaa gaagacgaag aagtcgaaag cgtga 225

<210> 2437
<211> 351
<212> DNA
<213> A.fumigatus

<400> 2437
cactccgcga agtttgtgca cgaatccgat acccctattc agatacttga gccgttcctc 60
cttcttggtc tattagcgaa ctacaataag ttcgagtttc agaacccgta tcaattgcgg 120
ctcgacgatt ttgtcaacga gtcaagcatt caaaagatcg tcaaaggtgt cggtctttcg 180
tgcgccgcct taagaaacgg ttatattgct gtacaggatg atgcacctga gggctggaca 240
ctcagcagca ctctggtctt cttcggactc ggaagacttg ctccaggcac gagaaataaa 300

actcaagcgc caacggctga ggaagcgaag gaggtgtttg caactctgta a 351

<210> 2438
<211> 447
<212> DNA
<213> A.fumigatus

<400> 2438
tttacatatt cccgttggtt gactggaatc aggccgtctc aagaagccgc cattcttctg 60
tccacctatg actttgcaaa tgcgaataag ctctttgggt atcacctcat taactctatg 120
ccagagaaag acagcgagga gtctcccttt gcgagctttc tctctattac aagctacatg 180
ttgcagcacg cttacagatc ccctcgtgtt gcacactatg cggagctcaa cctcttcact 240
cttcgcatcc tttctgaaga ttcagcgctg tgtaaacagc tttgcagcga gggggagaaa 300
agaaaagtgc gcctttgccg gcaaaggcag ccgtatctcc cgctcgtctc aggggacagg 360
gttctcgcaa ctgttatctt cgacattatg attgatacca tttcccataa tctccggcgg 420
cgccttgatg ccaacatata caggtaa 447

<210> 2439
<211> 231
<212> DNA
<213> A.fumigatus

<400> 2439
catgattctt ccagccctgt ggtgaagacc tcaatcgaat ctcaaggaaa aacagattac 60
ctcgtcattt acaaggtagc gactagacta tcgtcgcaaa ccgtaggcgc aatgatattg 120
tgcgcgcata ccagtttgcc gttgcttaac aacgtatacc acacatccaa gtacttcatc 180
gtgttcttca tgacaaatgg cacaacagtc gctctgtctg acttcgtatg a 231

<210> 2440
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2440
cctgcctata ggttaataat cccacccttc tatattaagg tctcttctag tttaacaggt 60
atggcttcta gtagattcta ttacccccta gcttccttta ttaaatattt agcttcttat 120
tatctatcta ggagttatta ccatagctct tttacttcct ctatagtgca ttcatatgtt 180
gtcccagaga cctttccccc gtccctgtga 210

<210> 2441
<211> 315
<212> DNA
<213> A.fumigatus

<400> 2441
cccttcccca aggttcctcc gggaaaagga actttgaccc accagcactt tgatgatatg 60
ctcaatttcc acagcacgga agaggacaag gtaacaggac gtctggttac gaaattcctc 120
gacttcaaga aacccacgcg cgacatcagg accaggctga tgggcaaaca cgccaaagga 180
atgacggatg gcgaggcaaa ggaactggcg ctgtttgtgg atctattgga acggtgcctg 240
agtctcaacc cggagaagcg gtgcacaccg gctgaagcgt tgaggcatcc gtttattgcg 300
cggcccaagg catag 315

<210> 2442
<211> 222
<212> DNA
<213> A.fumigatus

<400> 2442
acatcaccga cctccctgag gcatcttgat gccgatgcgg tccggatctg caaggagcac 60
acggagggtg tcaatgtcat cgagacgacc ctcgacaagc gcgactgcag gtttggcaac 120
tctcttggtt gcagtgttgg cggatactgc tacaagtcct gtgcccagcc cggctctgga 180
cactggtgct ggacagcaca taacaatgga tttagggact ga 222

<210> 2443
<211> 300
<212> DNA
<213> A.fumigatus

<400> 2443
tgcgcttgcc tactccaacc cgccctgttt caatcttcag cgctgaaggc tcgacagatg 60
gccttcaatg agtttgaggt cacggctgcg ccaaaggtcg cagagggcga gggcaagatg 120
ttaaccgatg agcttgtcca ggtaaacgac aacggttctt ctcctacctc gaacgatctg 180
gactgcgaga aacatggagc tagccgtcaa tcgaatccac tgcccgatct caagcggaag 240
ttgaagagca ggcatctaca aatgattgcc attggtgagt catacttcga ttcgaacatc 300

<210> 2444
<211> 1086
<212> DNA
<213> A.fumigatus

<400> 2444
ttgttcggtg gcttccccaa gtctaccgcc ccttctcgcg gaatctccgt cgccgctgcg 60
ccctaccgcg ttttttacag ccgcaagaac ttcctgttcc ccgaccgcca gcggggccct 120
caccgcagct ggagagatga agtgcggact atggataagc tcttcctcaa cggcagcgcc 180
tacatgattg gcaagatgaa tggcgagcac tggtacttgt acctgactga acctcatacc 240
atgctcaccc cgccaacgag cccgggagcc aagaccgagt ttacggaaac ggagaccaag 300
gtcctcagtg taccccaggg cgctgctctg cagactgatt cggaggatga gactttggaa 360
gtcttgatga ccgacttgga tgaggagaac gccaagcagt tctacctcga gaatgccact 420
gccgttgcgg agaaccgtta tcgcaactca aattcggaga agagtgacca cgttgatgtt 480
ttcagcaaca cttcctccga tatcagcgat tttgactccg acggaagcca ggttctgcct 540
ccagagttga ctaccgaggg tcacgcgctc ggaaccgtgg tctctgaagc ctgtggactt 600
tcctctgtgt atcctaagga gaagtatccc gattcgcgca tcgatgccta cctgtttaca 660
ccatgcggct tctccgccaa cggcgtgatt ccgcctcctg agggaaaagc tggaacccac 720
tacttcacag tacacgtcac tccagagccg cactgttcat atgcgtcctt tgagaccaac 780
gtaccgcact cgcagaacgg ccagactacc gctggaatca tcaagcaagt ggtcgacatc 840
ttcaagcctg gtcgcttcag cgtgactctc ttcgaggcca agccagcgct gagccaggtc 900
gaagacgagt ggaaggaagc caagtacctg gccgctcgtc ggaccgccaa aatggaacat 960
gtggagggat atcgccgagt ggaccggatt gtccacgacc tcgacggcta tgagcttgtc 1020
ttccgctatt atgaacgcct ggactggaaa gggggggccc ctcggctggg agaagagaga 1080
tcttga 1086

<210> 2445
<211> 513
<212> DNA
<213> A.fumigatus

<400> 2445
cctcgagccc cttgttcaat tgtcgctcaa ctttgcacct ttgtcataaa caggatccaa 60
tttttgaacc atatcagcaa tcatcacacc aagccaaaca tgggttccat tgctcagaca 120
gtacgagagc ttgatgcctc gaccgtcaag gtaactcggt ccaccaacct gcgtctggtt 180
cctgaacccg gttctccgga ggaactcagt cactcgcact gtacagacca catggtcacc 240
gtcagatgga ccgtgaacaa tggatgggag accccagaaa tcaaaccata cgagaatctc 300

agcattcccc cgaccgccgg ctgcctgcac tatgctacgg aatgcttcga gggcattaaa 360
gtgtaccggg gatacgacgg caaattgcgt ctgttccgtc cagactgcaa cggcgagaga 420
cttgtcatga gtgcccagag aacttctttg cccactttcc ggttcgagga gctcaaggtg 480
cttatcgcca agttgatgca gatagatggg ccc 513

<210> 2446
<211> 303
<212> DNA
<213> A.fumigatus

<400> 2446
gaatgtctgg attgcagcct ctccaacggt gctaccggca ttgatgccag tggaatctct 60
ggctcgctga cggtcatcga ttccagcggt aattcgctcg gcaacatgat cgtctcgtcc 120
aatgctggtg gtagtgctca gaactcgatc atcttggaga atgtgcagtg caccaacagc 180
ggcagcaccg tctcgcttaa caacaatgcg gtcctctccg gctccgtgac aagcacctgg 240
gtgcatggaa acatggtgag tcgaatccct ggcttgttac acctgcctgc tcaccggatg 300
tag 303

<210> 2447
<211> 645
<212> DNA
<213> A.fumigatus

<400> 2447
tactccggcg gagctaccac gcctacacat gcacaaggct cgcaggtcac cacccctcgt 60
gccaatgttc tgctaggagc caactccaag tactttacca tggcaccacc gacatacgcc 120
caatactcgt ccagccagtt catcaacgtc aagaccgtga gcggtctgcc ggtcatggga 180
gatggcgcca ccgacgacac ggcgaacatc aacgccatct tggcccagta tgccggctgc 240
aagattatct acttcccggc cggcacgtac attgtgacgg ggacgatctt tgtccctgct 300
ggttcgatca ttgtcggcga tgcgtatgcc tcggccatca gtgctacggg ctccaacttt 360
tggaatccta acgctccgac gacaatggtc aaggtcggga acgcaggcga cgtgggggtc 420
gcccagttca cagatatgat gttcacagta gccgatgtgc tccagggctg caaattagta 480
ggtcaacccc cgttccgttt ggacgctacc actaactgta aggcaggtcg aagtcaacat 540
tgccggtgca gctcctggcg acgtgggatt ctggaacacg catttccgca tcggcggtgc 600
cgtcggctcc aaactcttca ccacaatgag caggagccgg catag 645

<210> 2448
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2448
agagcgaaac tacccgtgca gcccgactat ggggatggca agtctgacga ggacgtcagc 60
tggatgtaca tgagtgtgat tgactacata cgttactaca atgatctgga tgaacgactg 120
gtggttcgat tcgtattcgc ggccgccaga cagaccagcg agaatgttgc tgcgacggca 180
tga 183

<210> 2449
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2449
ttggctggtt cgttttgggt gagtgttgca aggaactggc ttggctcgac tctccctctg 60
cagccctact caactctcgc taacacgatc ctagttgcct cgcttgtgct gccatttttc 120
catcgactat atcctaacag ccactacttg caccgactga tggtgctttt tctcacattc 180

tcacccacct ttataatcct caccatt 207

<210> 2450
<211> 465
<212> DNA
<213> A.fumigatus

<400> 2450
agacatgagc ccatcaagag gtctggcgct ctattcgcta ctgcgctgga ggggctgcgc 60
tatctgcaaa catatgactg gctcttcctc cgaaccatca tcacctttgg atacctaggc 120
tggatcgcat atgcactgac gacagttatt gatctgcatg ttttgcacag aacctcagat 180
tcaaaacgga ccgtgggcag tactattttc ttcacgtcta ttcttgctgc gctgttttcg 240
gttctcttat atcagaagtc ttcatggcaa tactatgtct acggagcttt tccaatcttt 300
ttctgggaag aggtttttgc acgtaggaag gcattgatcg ctggccgcga gatccttttg 360
ggtcatgttc gttcttttgg tggctacatc gcctccggat ttcaattagt agcctttgtt 420
gcagttttgg aagctcttgt atgttacgat acattgactt attga 465

<210> 2451
<211> 270
<212> DNA
<213> A.fumigatus

<400> 2451
cgtccgcaac tatcgaggct aatttacaga tggtgctcta acgatcgttt gtgcagaact 60
tatggtgcac tgctgatgtt ctttaccggg ttgttctatc tacttttcga ggacaccatc 120
ttgaaacata gtaaatcttc aggacatgcg ccaggggcta tctctagctt ggggtcgcga 180
gtcatcatgg gcatgcaggt acagtttttc gtccttttca tcttctcttg cggtcttcaa 240
gactatgtgg cggctgtgtc cctgccttag 270

<210> 2452
<211> 222
<212> DNA
<213> A.fumigatus

<400> 2452
ctacttaata ggaagttact actatatagc cccctatttg ccatgtcaca gctagagcta 60
gaggctctgt gtaaatacct taataaaata cttaagaagg ggtggattag ggaattatct 120
agcctagtag cagcactagt actctttata aagaagctag atagaggcct atatctctgc 180
attaactacc aggggctaaa tactattata gttaagaatt aa 222

<210> 2453
<211> 408
<212> DNA
<213> A.fumigatus

<400> 2453
cgaggtctga aatacgttca ctcagcaggc gtcgtccacc gtgatctcaa acccagcaac 60
attcttatca acgaaaactg cgatttgaaa atctgcgatt ttggccttgc tcgtatccaa 120
gaccctcaga tgaccggcta tgtttcaacg agatactacc gagcccctga aatcatgctt 180
acatggcaga aatatgacgt ggaagtcgac atctggagtg caggctgtat ttttgccgag 240
atgctggaag gaaagccttt atttcctgga aaggaccatg tcaaccagtt ctctatcatc 300
acagaactgc ttgggactcc gccggacgat gtgattcaaa ctatctgcag tgagaatgtg 360
agtgggagac cggcattccg cctgctactg attgcgaact cttgctaa 408

<210> 2454
<211> 222

<212> DNA
<213> A.fumigatus

<400> 2454
tacgtatcgc gcgacgctag ctctgcaaga gatcaattga caggccaacc cgtggctgta 60
aagaagatca tgaagccttt cagcactcct gttttgtcga agagaacata ccgtgagctg 120
aaactgttga agcacttacg gcacgagaac gtttgtggcc acccaactgc aaacattcta 180
ccacctttgt gttctgattc ccttggtaga tcattagctt aa 222

<210> 2455
<211> 195
<212> DNA
<213> A.fumigatus

<400> 2455
cagctggaca gttactttgt cacagagctc cttgggacag acctccaccg acttctaact 60
tcgagaccat tgggagaaac aattcattca atacttccta tatcagattt tggtatgcct 120
cgacttcttc ccccgttcag acagtacttg aaccagtact tgaacgctaa ccatgtattc 180
tgtagcgagg tctga 195

<210> 2456
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (157),(176)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2456
catgatgcac caagcaacgg ggtaacaata aagccaagat cttattcacg acaagatggc 60
cacacgctgg tggcttgcgt cggcaagctt ccctgtggtt tcggtacttt ccctagaatt 120
cccggtttaa aacaagatct gacggacgaa gccctanggg gtcctatgtg cattanccat 180
aatgttcaat atatgcgctg tatcccaagg atggcgggag gtaatatacc ccgaccgaag 240
cgtaagcat 249

<210> 2457
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2457
gtagaggtag acactagggc taacatactc ctactagata tttccggaca aattattgct 60
ttctcaacaa gcacagagga tgcaaagatt cttcagccgg gtttcctttg tgacaatagc 120
tggcgaatga agacagagat ggactatgga tctgacggac caatgattgg caggacaatc 180
tctcagtgga caggtaaggt caatcaatga 210

<210> 2458
<211> 249
<212> DNA
<213> A.fumigatus

<400> 2458
gactcgtcta tattccagca ttcactacat atgctgtctc tagccactcc tttccattcg 60
ttcttatttg gtaataagat tactcccttt cttctcagtc ttttcactat acatgaagcg 120

ttgtcattga gaccttcgat tttcttctcg actctctttt gcaacgttga tggttgctat 180
ttcttaaaca aatctagcta tttgaatggc tcttgcttga gaccatacga gaagcaattt 240
gtaccatga 249

<210> 2459
<211> 195
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (35)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2459
acaattcaag tcatccaagg aagagactgg ggtancatca tcgcccgcgt catggcaacg 60
ctctaccccc agcacatcaa agccgtccat cttcacttcg cccccgtggc tcctccctac 120
ccatggggcc acccatggat ctttgtgcaa atcaattctg aatcttccct tctcctcgcg 180
gaacaatgcc tttga 195

<210> 2460
<211> 342
<212> DNA
<213> A.fumigatus

<400> 2460
agtatccccg actcccaact ggatcttttg caccaaaagc ttcaggccgc taccttccct 60
gatgaactag acgctgcagg ctgggacctg ggagtcccac tggacgagat caaacgactg 120
accgcatact ggcgcgatgg attcgactgg cgcgcaaagg agaaggagtt gaacggcaaa 180
ctgcaccagt tcatggtctc tgtctctgtt tcgggctttg tgcagctcga tattcattgc 240
gtgcatcaga ggagtcctat gccgggtgct attccgctac tcttcctaca tggctgtaat 300
gtaccatatg tgcggttggc tttgcagatg aaggtctgtt ga 342

<210> 2461
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (93),(128)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2461
atggtttgtg gaatatcttc ccggcggtta acttggccaa caaaaccagg aaccagttgc 60
cttccaagat tggataagtt cattcccttt ttnaagaact ccagctggcg ggaggatacc 120
gataccantg acggcggcac acaggtgatc tttttaatgg gacccaacgc tgtagatgaa 180
aatggaactg tgtttctaca ttaa 204

<210> 2462
<211> 456
<212> DNA
<213> A.fumigatus

<400> 2462
agaacggcca aggacggagc tcgctcatcg tatggggtgt tctggggtca taacaacgtg 60

ctgaacaccg ctgtacctgt tgagggagag ggaaaccaca caaaccaggt agccgagtta 120
cgagcttgca tgagagcatt gctggacgtt gtgcacgtca gatctctctt tgaggaccaa 180
gggatcattc ttagtgcggt tgtcatcaag tccgactcgg agtatctggt ccgcggcgtc 240
accgaatggc tccccaaatg gaagaggaac ggatggaaga actctagggg attggatgtg 300
gctaactggg aacatttcaa ggcaattgag cgtctcactg aggatttgga gagacataag 360
ttaaccatca agttctggca tgtacctagg aggaataatc gtgacgcaga taccatggca 420
aaggccgtct tgaggggcgc ctggaaccgg ggattg 456

<210> 2463
<211> 345
<212> DNA
<213> A.fumigatus

<400> 2463
gtgccgtgcg ccacggcgcg atcaggtcct gctaacagtc tcttcccaga cccaattgcc 60
acgcagataa caagcactgc cctgggccct cgtccgaaat ggacgttttg ctcgggaaat 120
acagccatgc ctccgacagc agactgtccc ccgacatcgc agccggttca ttcagatgcc 180
gactttgatc acccaacaca ccccttgcc tatgtgatca acatcccttt gatcgaaatg 240
accccggaga acggatctac agagatctgg ctcggaacac acatcgactc gggcctacat 300
atccaggaag gaatgcacgg tgaccgagca agcggacgca tctag 345

<210> 2464
<211> 987
<212> DNA
<213> A.fumigatus

<400> 2464
atatcgcccg cgcggatcct tccagcccct ggtgaagaca attggcccac agacttggtg 60
gacgtgaagc cctacttgca gcgcccagac gtggtccaag ccttgaacat taaccccgag 120
aagaagtctg gatgggagga atgctctggc gcggtgagca gtaccttcaa cgcagcgaac 180
tcgctgcctt cggttcaact actaccggag cttctcgagt ccggcattcc catcctgctg 240
ttcagcggcg acaaggacct tatttgcaac catgtcggta cggaacaact gatcaacaat 300
atgaagtgga acggtggaac tggctttgaa acttcccctg gagtttgggc tccacgtcac 360
gattggacat ttgaaggtga accggccggt atctaccagt atgcccggaa cttgacatac 420
gtcctcttct acaatgcaag ccatatggta ccctacgatc tacctcgcca gagtcgtgac 480
atgcttgacc gtttcatgaa ggtcgatatt gccaatatcg gcggcaagcc ggcggattca 540
cggatcgatg gcgagaagct accgcagacc tccgtaggcg gccacccgaa cagcacagca 600
gccgagcagc aagcgaagga gaagatcaaa gagacagaat ggaaggccta cgccaagtcg 660
ggcgaggcgg ctctgatcgt cgtgataatc ggtgtgacgg tctggggttt attcatttgg 720
cgcagtcgac gacgcaaccg cggctatcaa ggagtctacc aaagggacat tggtagtggc 780
tatattatgg agcgcttcca caacaaacgc tctgggcctg ccgatgtgga agcgggcgac 840
ttcgacgagt ccgagctcga caacattcat tcaccaggcc tggaacaaga acattatgct 900
gtcggggacg acagtgatga agagagtccg aatcaccagc ctgccgcccc gccgagctcc 960
acgaagccag gaggcgctca accatag 987

<210> 2465
<211> 369
<212> DNA
<213> A.fumigatus

<400> 2465
aatcaatccc atacaaaatc tcctcatcca attactcgcc atactcaaat ttaccataca 60
gatccagcag cggcaattgc tgtaccaatg gcgtcaattt tacaagcaat caggtatagc 120
catggcaagt tagccatcat tgaccagcta cagcttccat acgtggaaaa gtttattaca 180
atccggacat ctgaagacgc ctggcatgca atcaaggaaa tgagagtcag gggcgcacca 240
gccattgcaa tagttgcagc cctcgcactc gcctcggagt tgaatacact cataatccac 300

gataaactat catcgagagc agaagaggtg aaacttttta tccgggaaaa gttggattac 360
ctagtgagc 369

<210> 2466
<211> 246
<212> DNA
<213> A.fumigatus

<400> 2466
caggaaatca aggttcttcg cgctaaaaat aagcagaaaa tgaagaagaa ggcaagaaaa 60
tatacttcct tagggaataa cctatttata tctatgcagg aaggtcgtga ctatattcag 120
caggttaatg agcaggttga tgagcaggtt agtaagtcta cacctatatc ttgtcagcgt 180
gctccgccgc gctgtagtgg atgctggact attagacata ctagaagaag ttgccctaat 240
aaatag 246

<210> 2467
<211> 666
<212> DNA
<213> A.fumigatus

<400> 2467
ccgcaaacgc tcaataacgc gacctcgctc ttcaacggcg gagataaagg ctggggccga 60
cagacctggg acatcgcagt gcatatcagc aacagcatta cattcgtgct gttcgataac 120
aggtggaatg ggttccctgg gatcttcgcc tcgtgcgtga cgcacacggt tacgccgtat 180
gagtggcgga ttgccttcgg ggttacgccg ttgctcaagg caggcccaat taattttagt 240
cagcaagttt tctttaatct tgatgggttt aggggtaatg ccagcaccag cgatgctagt 300
gatagtacgg tgcttaatca taggccgagg cttccttctt ccgggatgcg tttcgatgtt 360
gatgagtggg agattccgac aggcgatatg aagagtaata gggaggggaa ggagtttgac 420
ttttggtctg cggataagtt tattggcgac gaggttcaga agggtaatgc tggatctgat 480
gtgacttacg tgctctccca taaaccgttg ggcgacaagg aagacgaacc tgtggcaatc 540
ctctcctcga agccatctgg tgtcaccatg gagctttaca cggaccagga cgctctccat 600
gttcacacgt ggaacagtga cttgggtaac atgacattct tctgtagtgg ttggagtcgc 660
aactga 666

<210> 2468
<211> 1083
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1060)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2468
gcaatcatgc ctcccaaatc cgtccgtcga ggcgcagcag cagcagcagc agcaggacga 60
ggaggaggag gagaaggaac agctccgcga caaaccacca gcgaagccgc atcaaatact 120
cctactggat ccgccgcatc cacaccccaa ccgtccactg cagtcggtac accgtccaca 180
cgagcacccg tgcagcgcct gcagactctg aaaaagcgca caccctccgg aagcatcgga 240
ccccccgcga gaactcccgc tgcgacaacg ccaggaaatg gagagccgac gaaaccgata 300
ctgaagtaca agcctcgcgc tgtgggacgg cgcagcaaag aggagcgaga tgcgattgag 360
aagctggagg cggagcggaa tcgggagcga ttggctgagg tggcggccat gagccgggga 420
cggggaaatc tgcagcgagg cagaggaggc cccgggcgag gacgcggggt tccgcttgga 480
ggcgggcgac gaggccgtgg tgggcggttt gagccggatt cgcgagcgtc gtctatgtcg 540
cggagtcggt cggttatcga tatagctagt ggttccgcta gtcgccatgt atcatcggac 600
gagagtgata cggagactat acttcccatt gaccagatcg aggtcgatag cgatgaggag 660

ttggatgatg tcgcggatag caagaaggga aagcttccct tgcggtatgc gaaccgagag 720
aagggccttc ggccagttcg tgttgagcgc cgcgagcacg aggaacgggt ggtcagtgtc 780
aacatggagt cgagcacgag taaaccggcc gaagctgaaa caaaggctga ggatgaagtg 840
gaggaagttg gtgcaaagaa aacgagaccc gaagacgatt ctctcttcgt gcgggacgat 900
gatgtgattg agccacaggt gaaggaggaa cctattgatg acgaccatcc aatgactgat 960
gtcgttcccc atgtcggcga agcaacgcac gatgatggct ttcttccagc gcaaaaggtc 1020
aaagtccgca gacgactaag tcccaagatt cccgatcatn tagccgccgc catggaagat 1080
taa 1083

<210> 2469
<211> 1125
<212> DNA
<213> A.fumigatus

<400> 2469
tcgggaatct tgggacttag tcgtctgcgg actttgacct tttgcgctgg aagaaagcca 60
tcatcgtgcg ttgcttcgcc gacatgggga acgacatcag tcattggatg gtcgtcatca 120
ataggttcct ccttcacctg tggctcaatc acatcatcgt cccgcacgaa gagagaatcg 180
tcttcgggtc tcgttttctt tgcaccaact tcctccactt catcctcagc ctttgtttca 240
gcttcggccg gtttactcgt gctcgactcc atgttgacac tgaccacccg ttcctcgtgc 300
tcgcggcgct caacacgaac tggccgaagg cccttctctc ggttcgcata ccgcaaggga 360
agctttccct tcttgctatc cgcgacatca tccaactcct catcgctatc gacctcgatc 420
tggtcaatgg gaagtatagt ctccgtatca ctctcgtccg atgatacatg gcgactagcg 480
gaaccactag ctatatcgat aaccgaccga ctccgcgaca tagacgacgc tcgcgaatcc 540
ggctcaaacc gcccaccacg gcctcgtcgc ccgcctccaa gcggaacccc gcgtcctcgc 600
ccggggcctc ctctgcctcg ctgcagattt ccccgtcccc ggctcatggc cgccacctca 660
gccaatcgct cccgattccg ctccgcctcc agcttctcaa tcgcatctcg ctcctctttg 720
ctgcgccgtc ccacagcgcg aggcttgtac ttcagtatcg gtttcgtcgg ctctccattt 780
cctggcgttg tcgcagcggg agttctcgcg gggggtccga tgcttccgga gggtgtgcgc 840
tttttcagag tctgcaggcg ctgcacgggt gctcgtgtgg acggtgtacc gactgcagtg 900
gacggttggg gtgtggatgc ggcggatcca gtaggagtat ttgatgcggc ttcgctggtg 960
gtttgtcgcg gagctgttcc ttctcctcct cctcctcgtc ctgctgctgc tgctgctgct 1020
gcgcctcgac ggacggattt gggaggcatg attgctcagc ggatctgggc gcgcacgagg 1080
tgtgtgcttc aacggaggga gagaacggag gaatcagtac attga 1125

<210> 2470
<211> 222
<212> DNA
<213> A.fumigatus

<400> 2470
cctgacttcc tcaccggcat gtctctgcgc tctctcttcg tagctggctt ggccaccctg 60
gcattggcgg tgcctgcccc ccagattcag gcccgccaag gcatgagctc taacgagctc 120
gagagcgggc cttgtcgtga tgtgactttt atctttgctc gaggatcgac cgagcagggc 180
aacatggtat gtttctcgac caggagttca ctgagtacgt ga 222

<210> 2471
<211> 237
<212> DNA
<213> A.fumigatus

<400> 2471
gggttgatcg tgggacctgg agtctgcagc tcgctgaaaa aagatctcgg ctccgacaag 60
gtcgcctgtc agggcgtagg gggcgcatat accgctcaat tggccccgaa cttcctttct 120
caaaacacca atcaggcatc catcaatgcg gccacggata tgttcgatct ggctaacacc 180
aagtgtccga atacgaagat cgtggccggt ggatacaggt atattatctg catctga 237

<210> 2472
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2472
cggtcccct tgtacgactt cacttcatcc gcggtgaaga ctgaggccct gcaaggcttc 60
cgaatatgca tacttcggag atgtatccaa gttacggaca ttctgaaggg atataaagcg 120
cgtgctgcgc atgatgttga atgcagtacc aacagcatct tcttcttcca ggtcgtcaag 180
actgcttcca ttcattctgg cattccagat caaaccctag cctga 225

<210> 2473
<211> 276
<212> DNA
<213> A.fumigatus

<400> 2473
aataacagcc aaggttctgc tgtcatcgat aacacaattc aggcgcttgg cagtgatctg 60
aaagctaagg tcaagggagt ggttcttttt ggattcaccc ggaacgtggc tgacaagggt 120
caaattccgg gttaccccaa ggaccagacc aagatttatt gcgctgtcgg tgatatggtt 180
tgtgttaata cactgatcat tacccctgcc cacttgacct atggggccga cgcaggtgat 240
gctgctaaat ttcttgcttc gaaggtccac gaataa 276

<210> 2474
<211> 258
<212> DNA
<213> A.fumigatus

<400> 2474
ccgcttttga tggtacctag tcacacaatg gtacacaggt acaccgcatc tctatcatca 60
cttcccagag acgagttgct tgctttcccc tttttcccta ttggtgctct tcctcctttt 120
ccatacatgt accaaacaaa gggaatcaag aagtgcattg catttaaaac aaaggaggaa 180
tacctgcatg gatctctcgc tttcctttca ggaaatgttg agaatgcagg atcgcagagg 240
ttgacatgca tgtcatga 258

<210> 2475
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2475
tccgggatta ctcctgatga cccagacacg tcgattgatg gtaagggcac gcactacatc 60
gctggtatca actctagcac gtcgcctttt tctcgtgtac ccatactaca ggctcggttc 120
tctctggatc ccctgcatca agctaacaac ggcatgaccg atttgagaaa cttttctata 180
tcctag 186

<210> 2476
<211> 459
<212> DNA
<213> A.fumigatus

<400> 2476
cgccaggcag agaatacaca gcccgcgttc atacagaaac ttagaaacca gtatggagat 60
atgtctggtc gccttgaaag gcccgttgcg cgacctcgct tagcaaagaa agatgacgag 120
gacgatgacg agcccacata cgttgatgaa ggaagtaacg aggtgatatc aaaggaagaa 180

tatgaggcac tattgcgcgg tgaagaaaag caacaggagt catccgaaca acaatcaggt 240
catgagtcga ggcaagacac tgaaaaaccc gacaccgagg tagcatcctc aaagcagaat 300
ttggctggaa taggaggccc aaagaagcgg aaacaggcga aagtcgttgc agacgatagt 360
gctgaagccg aaaataccac gcagcaagag agaactggac ctcagaaagc aaaagagaag 420
caaaagaaga agaagatcaa gctatccttc gatgaatga 459

<210> 2477
<211> 348
<212> DNA
<213> A.fumigatus

<400> 2477
cgattttatg aagtgcaagg ccgaggcgaa tggccggggc gagctggagt gtctgaaaaa 60
aggccggaag gtcacccgtt gtgcggcgag tgtgtacgtt tttctcttcc gtcatgcttg 120
cgttcagatt ctatgcgggt tgtgcaggag tcggttccga ggctaatcga ggcatatcgt 180
ggtaacagga tcaaggacat caacacccac tgcttgaagc agttcaacgc tcactgggaa 240
tgccttgaga acaacaacca gaatctatgg gagtgccgga agcccgagat ggagctcaac 300
agctgtgttt ttgagaagct ggtacgtccg cgacgcgtct tcggctga 348

<210> 2478
<211> 333
<212> DNA
<213> A.fumigatus

<400> 2478
tttctgcccc gtggtgcaga ccaatctccc aggttcaacc agcatgtcct cgtggacacc 60
accccgatgc ccagcgacat ccccaaggtg gaggagattg gagcgacgtc tgcgccgcta 120
ctgagcgcat cctactttat tggcgaccgc tgcaaggcgt tcaatgacga ttttatgaag 180
tgcaaggccg aggcgaatgg ccggggcgag ctggagtgtc tgaaaaaagg ccggaaggtc 240
acccgttgtg cggcgagtgt gtacgttttt ctcttccgtc atgcttgcgt tcagattcta 300
tgcgggttgt gcaggagtcg gttccgaggc taa 333

<210> 2479
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (45)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2479
atggaaaaca taagaaattc aacacaatat gtactagaga aaaanaaaag tatgccgacc 60
gtccccgtca attcccaacc atatctaatc ccaggaaacc gtcccacgga attaaatttg 120
ggccaatccg gtcttccccc cccgaacacc ccaactttga aactcccctt ccaaatcctc 180
cggtcgcccc ttgaatcccc atccagatta aggaccatgc cccaagaatg gcacgattcc 240
aaaaaataa 249

<210> 2480
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2480
atcgttctag gttatgaccg gtcctggacg gctagaacgg gaggatcagg ccaacatgac 60

tgccatgcag cagcagcaat gggctgggat tatggcatgc tattgcacca tgtcttggag 120
ggcgccaaac ccctagttca attcctcgac cactactgcc catttagcat cggacctttg 180
gccataaaat aa 192

<210> 2481
<211> 489
<212> DNA
<213> A.fumigatus

<400> 2481
aaccatagcg gatcctcgcg cctttgtaga agactcatcg aggagggtaa ggtgatctgg 60
caggaatggc agggtcttgc tattagccag gaccgtgtct ttgagactgt ctctatcgcc 120
cttgtcggca agtacaccac tttgcatgat tcatatatga gcgtgagcaa ggcgctcgag 180
cactctgcca tgcattgcaa gaagaagctt gacctcattt gggtcgagtc ctctcacctg 240
gaggacgagc acaaggagac caacccagcc gagtactaca aggcgtggca ctcagtttca 300
accgccaacg gaattctggt tcctgtacgt ttttctccgc atacgctttg tgaattgact 360
ctaatattat gttcagggtg gttttggcga gcgtggtacc gagggcatga tcaagagtgc 420
ccaatgggct cgtacgaaca atgttcctta cctgggtgtg tgcctgggta tgcaggtggc 480
cgttattga 489

<210> 2482
<211> 633
<212> DNA
<213> A.fumigatus

<400> 2482
tattatgttc agggtggttt tggcgagcgt ggtaccgagg gcatgatcaa gagtgcccaa 60
tgggctcgta cgaacaatgt tccttacctg ggtgtgtgcc tgggtatgca ggtggccgtt 120
attgagtacg ctcgcaacgt gtgcgggttg actggagctg gtagtgagga gttccacgag 180
aattgcgagc attctgcgat cgtctacatg cctgagattg acaagaccaa gatgggaggc 240
accatgcgac tcggcaagcg ggccactcac ttccagcccg gcaccgaatg gtcccgcctg 300
cggaagctgt acggagacaa gcaggagatc tgggagcgac accgtcaccg ttacgaggtt 360
aaccccgaac tcgtcgacca gctcgaacag gctgggttga gctttgtcgg taaggatgac 420
agcggcaagc gtatggagat tatcgaactc aaggaccaca agtggttcgt cggcgtgcaa 480
ttccaccccg agtatctcag ccgagtgctt gcgcccagca agaccttcct tggcttcttc 540
gctgcgtctg ccggctgcct cgaggagatc accgaggtgt tcaaggatcg ccacgacctg 600
agccaccgcg agttgaagat ccccctccac tag 633

<210> 2483
<211> 876
<212> DNA
<213> A.fumigatus

<400> 2483
gattccaccc agaaacctca aacacccaat gttcagaatt ttgaaatact cccccagtca 60
aaacaggagc cgggaacgat cgcgacgagt cgaccgcccc ctggtggagt atctagtcct 120
agtatcgcgg tagtcttgcc tcctccaggc gcagcttcta ctcctcatca gccaaattcg 180
agtcctgcag tacgaccaat gaaccagcct cctccgaacc acactccagc accgcggtca 240
agtggccagt acccgccatt ccaaagccag tctccttcaa tacagtcacg tccacagcaa 300
cacgggtctc cggcctacta tcgtcctgct cctcccccac ctcctagggt gggctacaag 360
tcggttgtct ttgagtttac ctcaccatta acgccctacg gaagtagcac ttcaggtcac 420
gcaggctcag gagaccggta tttgtttccg gagtactcta ttttggaatg gcttcctggc 480
ggaaacacgg ttctagcgtc cttcttgctc attcggaagg tggaccccaa cacaccgttt 540
cccatagaag atgcttcagt gacaagcaca tcccgagcca agggcaagtc gacctccaag 600
tcgaagaaag cggacaagaa caaagacaag gcagcggaag gcggggaagg caaagagaaa 660
gacaagaaag agaacggcaa gtccgatgag ggcgccaagg agaaggataa tgctcagtta 720

tctaacaatc aggattccgc tacggccgct actgactcgg ctaaaggatc agacaataaa 780
ggcaatcaga aggctcaggc ggaaactccg agcaaacccg actccaacaa atccaaggtc 840
ttcacacggg gctcgaagga tccgcgctat gcgtaa 876

<210> 2484
<211> 255
<212> DNA
<213> A.fumigatus

<400> 2484
atactcttag cgcggatccg tcggcccccc gtggtgaaga cctcaaatgg cctaaggctg 60
aatagccctc cctgtaagaa attccttggc agactggtgt acaaagtaca cagtttcttt 120
acggattgtc gagacggagc cacagaggct tactttgctt ccttgcacag ccagtggctg 180
accagctgca acacacagac cttcggattg ttttacttgg gaagctcgag cttgtctgga 240
gtcggcagca attga 255

<210> 2485
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2485
cttagttcaa ttgctgccga ctccagacaa gctcgagctt cccaagtaaa acaatccgaa 60
ggtctgtgtg ttgcagctgg tcagccactg gctgtgcaag gaagcaaagt aagcctctgt 120
ggctccgtct cgacaatccg taaagaaact gtgtactttg tacaccagtc tgccaaggaa 180
tttcttacag ggagggctat tcagccttag 210

<210> 2486
<211> 279
<212> DNA
<213> A.fumigatus

<400> 2486
tggtacccgg agattgagca ccatgccccc aatgttccca tcatccttgt tggtaccaaa 60
ctcgatctga gagacgatcc cgcgacagca gaatccctcc ggcagagaaa gatggagcct 120
gtctcgtacg agcaagcact ggccgtcgcc aaagagatcc gagcgcacaa gtatctcgaa 180
tgttctgccc tcacgcagcg caacctcaaa agcgtctttg atgaagccat tcggtatgtt 240
tggcattgtc cccgaagtga tgttgttcct cgatgctaa 279

<210> 2487
<211> 354
<212> DNA
<213> A.fumigatus

<400> 2487
aatatgatag acatgcctcc tcatctcgta tacgaccaat gcattccccg gagaatacat 60
ccctaccgtg tccgtggctt cctcccttgc gctgattctc attcggagcc tgttgttgac 120
tcgacttcca gatttgacaa ctatacggct agtgtgatgg tagatggtag gcccatcagc 180
ttgggactgt gggatactgc tgggcaagaa gattatgacc gactgagacc gctgtcctac 240
cctcaaaccg acgtcttcct catctgcttc tccattgtca gccctccttc gtttgacaac 300
gtcaaggcaa aggtgcttaa ctcccctgtc agctgctgtg cgctcacagc ttag 354

<210> 2488
<211> 246
<212> DNA
<213> A.fumigatus

<400> 2488
ccagacgaag tggaggattt tataactaac aaatattgca gggccggcgg cggcggtaaa 60
tctgagcatc gtagagccaa aatcgaagcc aagaacaaga agctcaatga ggagagacaa 120
cgtcaagcta agaatatcca aaaggagaag acgaagtcga agaacactca ttctaaagag 180
aacgaggagc agggcgccga tcagtgggct ggtattcacc ccagccgaag agcccgtatg 240
gcgtaa 246

<210> 2489
<211> 756
<212> DNA
<213> A.fumigatus

<400> 2489
ccgatgcaca atcttgttct tcaagaacga gaagggattt tttcaataat ccccacttgg 60
tatgagagtc gcacgaagga attacacaaa gtgcggcaag agcgtgatcg cttggtggaa 120
gctacacttt cgtctgagca gagactcgag aagcagaagg aagataatat aaaattaaag 180
gatgagcgca ttcagttacg acatgagctc gaaaaggcac gggaagcttt aaaggccgga 240
ggaggaagca tggcagagtt ggaaagagca caggaggaga tccgtcggct gaccaaagcc 300
aatgcttccc tggagcgaaa agcagaatac gaggcaaaac aggccgagta cacacgcgaa 360
cagtaccaga ccgcatccaa cgtggctgca cagtctggga acgagatcct gcagctcaaa 420
gaggagaatg agtcgttgaa gcgcaaggtt gcgggtgatg ccagccgtct cagagaactc 480
aacatccaaa gtgatgaaca gcgacatctt gcgcgcgtca aagagttgga agctatgctc 540
gcatctcgcg aagatctgct gcgtagaaag gaggatgagc tgcgagaatt ccgaaagaac 600
cgaccttcga ccagatcaac aagcacgcag ccacgaagcc cgaagtggac agcggcaaat 660
agccgtccaa ccagcccagg gatcaataat cacaacggtt ccgggtactc aggacgaggc 720
agtggattgc gatttagctc tgaggtgccc ctgtaa 756

<210> 2490
<211> 222
<212> DNA
<213> A.fumigatus

<400> 2490
tttataccag ctttccacct ccctataaat ttaatatctc acactattta cttagcaata 60
ttctctaata gcactagact agcttactat gctatcttca tccctactag taatataggt 120
aagataggaa agcttattta tataactaga accaccacca caggattctt ccttaaattt 180
aagtataact ataactttaa tctcacacag agaaagtact ag 222

<210> 2491
<211> 714
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (638),(671)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2491
cgaaccaaac atggccggcg cgaacagcgg aaatgccgcg ctcatactcg tgcgcaggat 60
tgtctgcgct gcgaacccgc tggccgcgta gctgagatag ctatctgcga gatagccggt 120
caggacggag ccaaactcgg ttgctgcgta gccgatcgcc acgagggcga cggtcgagac 180
catccagtgg acggatgtga ttgccggggg aatggtccag gcgaagagcc acaggcccag 240
ggcgaagacc ggggagccga tcatgaagcc gagaagtttg tcttcgggac gcagggggag 300
gcgctggcgg tggtgggaga cgatgagttt gtagtcgtgg atgcgggtga gcatgccaag 360

catgcagccg aggccaaggc cgaggaaggg gagacaggag tgggtggggg tcatgccgaa 420
ggattggtag attggtggga gggcctcggt gaacatgtag atgagggtga aagggatggc 480
gctgatgatg gataccagga agataatggg ttcggtgaag aagaggtaga tggggcgaaa 540
gagggccatg gtgaagaagg tgcggaggtc agggatacgg tctgggttga ggctctgcac 600
caccgtctgg gtctccttgc cgaggccttg cacaggcngc aagacttctt gtccaagaag 660
aagggaagtc ncgaatcacg gattccgaac aggaaacacg cgataagccc gtga 714

<210> 2492
<211> 843
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (5),(38)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2492
ttcgngactt cccttcttct tggacaagaa gtcttgcngc ctgtgcaagg cctcggcaag 60
gagacccaga cggtggtgca gagcctcaac ccagaccgta tccctgacct ccgcaccttc 120
ttcaccatgg ccctctttcg ccccatctac ctcttcttca ccgaacccat tatcttcctg 180
gtatccatca tcagcgccat ccctttcacc ctcatctaca tgttcaccga ggccctccca 240
ccaatctacc aatccttcgg catgaccccc acccactcct gtctcccctt cctcggcctt 300
ggcctcggct gcatgcttgg catgctcacc cgcatccacg actacaaact catcgtctcc 360
caccaccgcc agcgcctccc cctgcgtccc gaagacaaac ttctcggctt catgatcggc 420
tccccggtct tcgccctggg cctgtggctc ttcgcctgga ccattccccc ggcaatcaca 480
tccgtccact ggatggtctc gaccgtcgcc ctcgtggcga tcggctacgc agcaaccgag 540
tttggctccg tcctgaccgg ctatctcgca gatagctatc tcagctacgc ggccagcggg 600
ttcgcagcgc agacaatcct gcgcacgagt atgagcgcgg catttccgct gttcgcgccg 660
gccatgtttg gttcgctagg tgccaatgtg gcggtcagtg tgctggcggc gattgcgacg 720
gtgttttgtc ttgtgccgcc tctctttgca cggtttgggg aaaggattcg tgcgaaaagt 780
cggtttgcga gatatagttt ggatgtgtat aatcggatta cggttgagga ggagggtttc 840
tag 843

<210> 2493
<211> 468
<212> DNA
<213> A.fumigatus

<400> 2493
cctccgcacc ttcttcacca tggccctctt tcgccccatc tacctcttct tcaccgaacc 60
cattatcttc ctggtatcca tcatcagcgc catccctttc accctcatct acatgttcac 120
cgaggccctc ccaccaatct accaatcctt cggcatgacc cccacccact cctgtctccc 180
cttcctcggc cttggcctcg gctgcatgct tggcatgctc acccgcatcc acgactacaa 240
actcatcgtc tcccaccacc gccagcgcct ccccctgcgt cccgaagaca aacttctcgg 300
cttcatgatc ggctccccgg tcttcgccct gggcctgtgg ctcttcgcct ggaccattcc 360
cccggcaatc acatccgtcc actggatggt ctcgaccgtc gccctcgtgg cgatcggcta 420
cgcagcaacc gagtttggct ccgtcctgac cggctatctc gcagatag 468

<210> 2494
<211> 231
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (99)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2494
tatcgctgtt attccccgat ggctttcata actgtggtcg tggagttgta tagcagtcaa 60
gctatgcttc atatgtttgc attcataatc tcgtgcacnt atcttgcgaa cctcgagcgc 120
ctttatgatc aaactcaatt tgtagttaat actcgggatg gctccactgg taagtttcac 180
atagcagcag ccggaggtca taacacaagg gaagtgcttt caccccccatg a 231

<210> 2495
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2495
tccgagggtt ttagcaagag ccttttcatc ctcgccatcg caacgggaga agatgataat 60
agttcgcctt ctccaactga cctagatact aagttgcaac gcaaaatgtt gtgctcttcc 120
tcaattcgga cactgatggg taagatcaac taccctaaaa agactggttg gagagacagc 180
gactga 186

<210> 2496
<211> 459
<212> DNA
<213> A.fumigatus

<400> 2496
acttgggttt tctacttcgg gacccccttc tttcaaaagc ttgggaaacc atcacggacc 60
cctttcctga tcagcatgtt ccccaccatc gtcaatgttt gctccactcc catttccttt 120
tacaccatgg aaaagctcgg tcgtcgtact cttctccttt ggggtgctct gggcatggtt 180
gtctgccagt tcattgtcgc cattgtcgga actgtcgacg gcagcaacaa gagtgccgtc 240
agcgcggaaa tctccttcat ctgcatttac atctttttct tcgccagcac ctggggtcct 300
ggtgcctggg tcgtcatcgg cgagatctac cctctgccca tccgttcccg tggtgttgct 360
ctgtccaccg cctctaactg gctctggaac tgcgtaagtt tctcctcgac acggatgcca 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaatag 459

<210> 2497
<211> 288
<212> DNA
<213> A.fumigatus

<400> 2497
atcatcgctg tcatcacccc ctacatggtc gacactgaca agggtaacct caaggccaag 60
gtcttcttca tctggggatc tctctgcgcc tgtgcctttg tctacaccta cttcctcatc 120
cctgagacca agggtctcac cctcgagcag gtcgacaaga tgatggagga gaccactccc 180
cgtacctctg ccaagtggaa gcctcacggc accttcgccg ccgagatggg tctcactgac 240
aaggatatgg ctgagaagac cgccgaggtt gtccaccagg aggtttaa 288

<210> 2498
<211> 750
<212> DNA
<213> A.fumigatus

<400> 2498
cgatgtacaa ccagccccgt ctacggcgtc atcttcctct tcaaatggat ccgcgaaccc 60
ccctcaacaa acaccaccca acccctcgac ggcacctaca tcacctccct ccccgagaac 120
ctcttcttcg ccgcccaaac catccaaaac gcctgcggca cgcaggccat cctctccgtc 180

atcctaaacc aggactcccc cgcctcaacc ccctacccca tcaacatcgg gcccgagctc 240
cgctccttca aggaattcac ggccggcttc ccgcccgacc tccgcggcga ggccctctcc 300
aactcggaga ccatccgtac cgcgcacaac gccttcgcgc gcgcctcgcc cttcgtcgac 360
gagacggtgc gcacgacgca ggatgaggag gcggatgtct accatttcat tgcgtatacg 420
cctgtcaacg gggtgctgta tgagcttgat gggttgcagc cgtatccgat tagtcatggc 480
gagtgcaatg ctgagacgtt ccctgagaag gtgattgagg tcttgcagcg gcgtattgca 540
cggtatcctg aaggggagac gcgatttaat cttatggcgg tggtgaggga tttgaggttc 600
cgcgctcggg agacggggga tgtggagttg ttggagcggg aggcgaggaa gaggcgcgcg 660
tgggcgtggg agaataccct gcgccgttgg aactttgtag gattcattgg ggagatgtct 720
tcaccacggg gctggaaggt accgcgctgc 750

<210> 2499
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2499
cagatgagcc aagacgaggc caaatcgctc ttgttggcta acaccgatcg cgcattcaag 60
tccggtgcct ttgggcttcc ctggttcgag tgcaccaacc ccaagggtga gacagaaggg 120
ttctggggga ttgaccatgt gggccaagtc gccgagttct tggggttgga tcgcagcctg 180
gatcaaggtt tccgggcggt gctttag 207

<210> 2500
<211> 222
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (190),(221)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2500
aacagtccca cacaccccgg gttcccttca agggccgaaa aaccttgtag cattccactt 60
tttcttttgc cccgttcctt ccccaaacga tctggcggtt ccgtttggct ccataagaca 120
tcgtctgaga tttcgggtgc agataactcc ttgctgatca cttcccagca ctatcttggg 180
cttgtttctn gacggtcgga gaggctttac gttccacaat na 222

<210> 2501
<211> 534
<212> DNA
<213> A.fumigatus

<400> 2501
atactgttaa taccagggtc gatctgtttc gttttctcca tcatgatgac gagcctgtgc 60
cggaagtatt accaagccat tctcgcccaa gggatcctcg gcggcttaag caccggcgtc 120
atcttcactc cgtcccttgc ggccattggc cactatttcc agaagagacg gggacttgcc 180
atgggcatct gtgctgcggg ttcttccttg ggtggtctcc tgttccccat cgctttgaga 240
catgctctct atagccggcg attagggttt ggttggggcg ttcgcgtggt cgggttcgtg 300
gttttgggcc ttttggctat cgcctgcacc gtagtcagag agaggctacc accacgcaag 360
ggccggttct tcctgctccg cgcgtttgtg caaccatcat actccttcct agtggccgcc 420
gtcttcctca gtttctgggg gatgtgggtg ccgtgtttat tcatcgtctc gttcgcaatc 480
cagaagaaac acatgggcgg gaacctagca ttctacacgc tgtcgatagt ctgt 534

<210> 2502
<211> 402

<212> DNA
<213> A.fumigatus

<400> 2502
ttgtcagcca tccaattcca gactctgtgc cgcctaccgt tgccaaaaag cgatgattgg 60
ccactccccc cgcctcgacg gatgtgttgg acgggattaa acaaggaaat gagagattcc 120
gatgtggctt actatggccg actgttcaat cagtggtgcc acggaacagg catgccgacg 180
atcgatcacc cagctgacga gtactttgtg caagtcgccc gattcgaccc atcaaaggga 240
acaattgacg tcttggactc gtatcccatg ttccgtactc acctgacaca gactaagcca 300
gacagaagac cccaaaacga gtcatctgca gacatgggtc tgacgatgat ccagacgcaa 360
gtgaaatgcc cgacatggct gtggatctta ttcatgaagt aa 402

<210> 2503
<211> 339
<212> DNA
<213> A.fumigatus

<400> 2503
agtggcaggc gcagatgcca tcgctctcac cagcgcacaa gctctatgcc caatctggca 60
cgtaatcaat gtgttctaat attcagtcat ctccctcaaa gttctgaagg tgagagcttc 120
gacgcgttta atttaggtac gatcgaaagt acaggaacgc ctgaattgca ggaatgtgat 180
actttcacta gcagtgccct atccactgat acctacaaaa gtaagatgca atcgcttcgg 240
aatccgtcgg ccatctggca tttcagcctg ttgcccaaat cctattctaa tgcagcccag 300
gccactattg ccttttcaac accttaccct cacgaataa 339

<210> 2504
<211> 474
<212> DNA
<213> A.fumigatus

<400> 2504
atcctacaga aatgcagcca atcaattggc gtctctttca ttaacccctt aattttgatc 60
ttcacagtcc agagacacca agcggctatt gcgacatcca tcaccatgac aggcttcgat 120
ctgaagaacc ccatgaaaga atcagtcaac gtctcggtca tgtccacaga cgtggagaaa 180
cctcccccgc aattgtgtca agatgcttca catctcccct ttgcggcagt cccaaagcgg 240
aagcccgtcc ctgtcggcgc cacaaaggct tcttcggacg cgcaagcagc cattgcgacg 300
aaagaaccta gcgcatatct ccccaccaaa ggtgcttggt ggaacttgaa caggaattgg 360
caacaattct cgagaaagaa gcgcgtggtc attgctgcaa ttgcagtcgc ggtcgtctgc 420
ctccttgcgc ttgtcatcgg ccttgctgtg ggattgacca ggggaaaagg gtga 474

<210> 2505
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2505
agtcatggtc gagtccacta ctccgtacta actgacccct tgcatgggca tggcctgcgg 60
ggagcctcct tttctcttct cctctcgtcc ttttattcgc cggttgctat cccccacctg 120
gcctatttgt ttggcacttt ggtctcaaat ttcgaatcca tgttgatcac tgtagcccat 180
gtctctgact atgatattgc atattatagt agtattatta gtacgggtaa agcagatcgg 240
agaatgacgc tatttgcaac cgtctgcctc agaacaagga tatag 285

<210> 2506
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2506
agactcaaca atttggagcg ccagacctcc gttcctaagg tctatgtcat cctcggcctg 60
gtcggaatct acaccttcct ggttttcttc aacattgctg gcgagttcct cgtcaacttt 120
gccggtttcc tgattcctgg ctactactct ctcaatgcct tgttcacctc tggcaaggca 180
gatgatactc aggtgagtct ttcccgcttt aattga 216

<210> 2507
<211> 204
<212> DNA
<213> A.fumigatus

<400> 2507
attaaagccc ttttaaacgg gttttttttt ccaaccatag gccgccattt cccagaagtg 60
tgcgcttggg aattccaaaa ggtttctaag gaacaattgg ccaacacccc ctcgttcacc 120
gatatttcaa gaagttcctt tggttcaatt ccctgggacg aagactccga cccacggttc 180
gatgataatc tggagataat atga 204

<210> 2508
<211> 636
<212> DNA
<213> A.fumigatus

<400> 2508
acgatcgcag accggaaagc cgcttcaaag gacgtcaagc gtatgttccg ccgcgaacag 60
gaaatctcca attctgacct cgatccagca gccaagaaag agaaactagc tgctctcgca 120
ggaaagatcc acgctgcaca ggtgaatcac aactacacca tctattaccc acttacgcag 180
aaatacgtcg cgctctacgc agagcagaag aagaaaaaga aggagtctag tgcacaatcg 240
gaaaaaccga gcgagcccga agcggaagtt gccagcaaac tcatatatga cactacgggt 300
gagagaccgc ccatgtggcg tgtagttgag aagtgcatgg aagacggcac gctggatctt 360
ctccgtgaag ggaaattgga cggtagtgaa ggcgagaaga gctcacaagc gcccgagcaa 420
aagaagtcga agaaaagtac ggatgacgat cagtatgcgc gcaacaaatc cagtacggag 480
aaggtctccg acaagcctag cggaaagtcg agaaaatcag gggggaagca agacaggaaa 540
ccaaaacggt ccgcggcaat ggagggcgca tactggagtg ctaatgagca cgatgacgat 600
gataatgaga gtgacggtgg tttcttcgag gcgtga 636

<210> 2509
<211> 768
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (640),(697),(705),(724),(732),(749)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2509
actcagcgct tcaccttcta cacctccttc tttgctattt atactgtaac agtctctcaa 60
atatgggttg gttttgggca gatccgcagg caaagccaac gcctgtggca ccaaaccctc 120
tggcgtcctc cgatgcgtcc cctccagtta gtacaagatc ctgttggcat atctcacaga 180
aacagtttca ttgacgtcgt acagccagga tgtcccatgc atgcttccaa cgctcctcca 240
gccttgtctt cgctgtctgc tcggtctgat acttccagct cctgccctgt tcggtcccca 300
gactctccgt tctatgtgcg gccgaaaact accatgacgg actctcctca gcctcccgct 360
cccgaaacca aatctgcttt gtcaaaattg aaccctctta actacatgtt ctcctccatt 420
tctcaggagc gagcaccgaa tcagacggta gacctgccgg tggaacgaga gccttcctcc 480
atacctagag gggatgcaga cggcaactgg gagtatcctt ccccccagca aatgtacaac 540

gccatgctcc gtaaaggtta caccgataca ccacaggatg ctgtcgaagc catggtagcg 600
gtccacaatt tcctgaatga aaggtgctgg gctgaaatan ttggatggga acgcctcttt 660
gctaaagggc tgggacaagc atgggagaag tgccganagg gaaancaagg cattgctcga 720
aaancaatga ancaggagat gaaccggana tgtggatcca gcctgtga 768

<210> 2510
<211> 426
<212> DNA
<213> A.fumigatus

<400> 2510
aagctcggtt ccttccagcc ccgtggtgaa gacatgctgc tcgccggaat gggctctacg 60
agttctcgcg acccttcact gaatcggcag aggaacaggc gcgagagcgg atcaactgcc 120
ccgaccacga cgaacatcac cgatcgcacg cacaataccg tcccaacctc gattgacggg 180
gatcatgaaa cttccatgat cgaaggtaat ggtgtcggcc agcagctgag cctgaagaat 240
gagcgagctc tatccaacat gagcagcgct gcagcaacgc cgttgtctga agttacttcg 300
gcaggagcct acggctcctg tatagcgaag tcggaaggtg atgcaaggcg atctaaacca 360
agcgtgtctg cgcttgagct acagattcca ggccactacc cacccgcaaa tcatatacct 420
gcgtga 426

<210> 2511
<211> 327
<212> DNA
<213> A.fumigatus

<400> 2511
agacggaaat tcagcagtgg aagttctgtc aatctgctag tcccccagga tcacttccac 60
cttgtaaaag ggaccacaaa ggaacacaat gtgactcatg agagcggcat gcatatgact 120
ctccacttct gtgaggcctg tggctgtttg ctgtacaaga cagcagatcg gaaggatttt 180
gagggtggtg tgattgtgct ggctgggacg ctggacgatc ctcacgctct ggatgatgcc 240
aaacctgagg cggaattctt cgtcaaggat cgagcttcgt ggtggccggc gctgggtgat 300
gtgaagcagt tgcagggatt tgactga 327

<210> 2512
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (33),(91),(100),(141)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2512
agaagttgga ggtgccgata taaagttaat acnaaacaga agaatgcatc tcccgggttc 60
atcatcgaag cgaatacatc taagatagta ncttggtatn ttcttctgct aaaagttggg 120
gctaggctaa taggtaacat ntctgggagt catctacgct ctgggcgaca accgcgtcga 180
atggctggtc tctccatgaa tgaaggacca tcttaa 216

<210> 2513
<211> 687
<212> DNA
<213> A.fumigatus

<400> 2513
ttccaacagc tcaccctgat ctatacttcc gcgagcagcg atcaagcaat caaccagctc 60

tgcgaccaaa tccactctct aaacaacggc tccacagcga tcaaagttca agccgacctc 120
cgacagtcag acgccccggc ccaaatcctc gcagccacgt tcgacgcatt ccccaatgcc 180
aataacaaga tcgacatcct agtcaacaac gctggcgtat ccctatgcaa gaacctcgct 240
gacacaactg accacgacat ctcctccgtc ttcgacatca acgtctacgg cttgataagc 300
atgaccagag cggtgatccc gcatctccgc gccccaggcc gaatcatcaa cctcagctct 360
gtagcggctc ggcgcggatc gcccggtttc tcggtgtact ccgcctccaa ggcagcggtg 420
gaggggttca cgaggtcgct ggcgtgtgaa ttaggccctg tggggtgtac ggttaatgcg 480
gttcagcctg gggcggtgga gtccgatatg ttgcgccggg aggtgcctga gcagttaatc 540
gcctatattc aggagaatac gccgttaggc catcggattg ccctcccgga agacacagcg 600
agggttgtga cgttcctagc gggggagggg gccgggtggg taacggggca gagtatttgc 660
gttagtgggg ggttgcatat gaattag 687

<210> 2514
<211> 1740
<212> DNA
<213> A.fumigatus

<400> 2514
ccaattccac atattatttg gcccgaaggg ttattgccaa atatggtcgg cagatttcaa 60
cccccaaatg cggtgaaaac ccgccaagag ttcttaccct ttcaagcaca ggcattgcag 120
cgaatcaatg cgcatcgccg tggacagagt ctcgaccaac gacctttgca cgatgggacc 180
gtttccatta ctaacgcaac agcaaatcag cagcaccaaa tccttgctgg aggagaacag 240
catccccaat tctcgcaatc ggcacatttc ccccagcact cctctcccat gcccgtgatg 300
cctgaatgcc cgtctttgac ctcagaagac ttgcaagcat tatccaattc taccagcaat 360
gcgaatcatc cgggcatggc ttacatgaat tcgagcttca ttgctatggg aaatccgagc 420
ttgggacttc gaccaatgga taacaatctg aatctgatgc aacagcaaca gcagcaaaat 480
gcccacgtct catgcgtcaa tagccttgag ggccaaatcc tcgacaacgg tgcctggaat 540
ttctaccagc aaggccagct ccctacgacg cttcggtctc aagtcaacaa tctttcggcc 600
gatgggagac gacagtctgt tcagtcagat atcacccccc cgcaacgacc acatacccca 660
aagcaagcaa atacgcgtaa gttatccatt cagtcatctt ggtcattttt ctcccggcca 720
ctgacaaccg atccagacta ctttcccata acgccagcga caactccgtt taagaaaccg 780
gcggaacttg ctcagtatag tacggacatg cagtccaccc ccaccaagga gacaggccgc 840
tctgcacccg catcagccca gtcggtatac atgcaacgag ccaaatccct ccaaggagtt 900
gcggggtcta ccttttccaa ctccaaaatc gagatgccct ccccccccgaa cacggcttca 960
tttgaaattg acaattttga tgcgtttagc agtcagcagg gttccagttt cgagatttcc 1020
gagtcagaga atttatcgca gagtcactat gcctcgtcgt cagcaacctc gtcctttcaa 1080
tcctccccag agctagccgc catgccaagc cccgaagaca atcacgagaa ggctcataag 1140
ctgcccatct tccctgccgc gtccaatcgg ccagcgcaca ggaaggcgct gagtaccagc 1200
tccagttcca ccttgacgaa accccggctc tctccaagag tggcttcaat tgatagccct 1260
aaccttgatg ctagggttca tgcttctatc aaagagactg ggatcaccat cgatgagatc 1320
gcctcctaca tctctggccc tgacccggag gatggcaagt gggtttgcct tcaccccggc 1380
tgcgagcggc ggttcggaag aaaagcaaat atcaagtccc acgtccaaac ccaccttggt 1440
gatcgccaat ataagtgtga tcatcgcaac aagtgcttcg ttcgtggaca tgacctgaag 1500
cgtcacgcca agattcacac tggagacaaa ccatatgaat gtctttgtgg caatgtattc 1560
gctaggcacg atgctctgac tcggcacaga caacgaggaa tgtgcatcgg cggttacaag 1620
ggtattgtgc gcaagacaac caagcgtggc cgtccaaaga aacatcgacc agagttggag 1680
gagagacagg ataaggcagc caagacacgc tcttcaccac ggggctggaa ggacacgcgc 1740

<210> 2515
<211> 375
<212> DNA
<213> A.fumigatus

<400> 2515
caagggccgg tgggcgtggg cagtccactc ggccgtggtt tccggtcggc gctttcggta 60
gcggtggaaa tagcgaaaga ggtagtgttc gattacaagt ggaaaaaggc cgtcgcgttc 120

agtgtccggc attcttttgt ggcggccggt acacttttca tcgtgttcgt gagtcgagga 180
ggcagcaatg cactgctggt aggtttcctg gcagacaaaa aagggcatgg tctgcatgta 240
cggggacacg tgggcctcgg taccgttgct gcaaacgcaa gagaattgga gagtgtccta 300
tacatttatc gcattagttc ggtgagcagt gagaacggtg ggttccttaa gttcaaaaca 360
tacggaatca catga 375

<210> 2516
<211> 477
<212> DNA
<213> A.fumigatus

<400> 2516
agatacggtg acctcatccg cacatatatc aaagagggca agatcgtgcc catggagatc 60
acggtggcgc tactgtcgaa cgccatggcc gaggcgttgg cggcgggggc tggcgcgacc 120
gctgagggcg ggaagaagaa ggcccggttc ctgatcgacg ggttcccgcg gaagctcgat 180
caggccgtgt tcttcgagga tacggtctgc ccgtccgaga tgactctgtt cctggactgt 240
cccgaggagg tgatggagaa gcggctgctc aagcgcggcg agacctcggg gcgtgacgac 300
gataatgccg agtcaatccg caagcggttc cgcgtgtttg ttgagactag tatgcccgtt 360
gtccgggcgt tcgaggaaca gcagaaggtc ttgtccgtct ccgccacggg gacggtcgat 420
gaagtgtatg ccaggattcg ggagggactc gaaaagaagg gtgtccagcc tatctga 477

<210> 2517
<211> 489
<212> DNA
<213> A.fumigatus

<400> 2517
catgcgaaga ttgtcagtgt cgacacgacc gccgcattga atatccctgg agtctatgac 60
tatgtggacc atagggacct tcctaacccc aaagcgaatt ggtggggtgc tccaaagtgc 120
gatgaagtat tctttgcggt ggatgaagtc accactgctg gccagcccat tggcatgata 180
cttgcaagct ctgctaaaat tgccgaggaa gcttccagag ctgtgaagat tgagtatgaa 240
gaactgcccg caattctcac aattgaggag gcaatcgagg ccgaatcata ttttgaccac 300
ttccgcttta tcaagtgtgg cgacacggat aaagctttcg aggaggcgga tcatgtattt 360
catggagtat caagaatggg tggtcaagag catttctatc tggaaactca ggcttgcgta 420
gcgattccga aaccagagga tggggagatg gaggtctgga gtagtactca gaatcccaca 480
gaaacgtga 489

<210> 2518
<211> 318
<212> DNA
<213> A.fumigatus

<400> 2518
cttcggaata gccaaacata tgttgctcaa gtcactggtg tggcagctaa caaggttgtg 60
tctcgagtta aacgacttgg cggcggcttt ggtggcaaag agacgcggtc ggtgcaacta 120
gcaggcattt gtgccacagc agccgcaaag acgaaacgac cagttagatg catgttgaat 180
cgggatgaag acatcgttac ctctggccag cgccacccat tcctctgtca ttggaaggtt 240
ggcgtgacaa aagaagggaa actcctcgca cttgatgccg acgtatatgc caacggaggt 300
cacacgcggg atctctct 318

<210> 2519
<211> 240
<212> DNA
<213> A.fumigatus

<400> 2519

tccttctatc acctaatttt tggccttcat tgcacagaaa gactgacaat tatcgttcgt 60
agatttaacg acctggcatg gacagattac gaggacaact caaggggggt gatcgctggt 120
gcactggaga tcggctcctt ggatctatgg gatgcggaca agctgatcaa cggttcgagg 180
ttcgtccgta gacaaaaccc cccggccatg atgaattggc tgacagatta caagcagtga 240

<210> 2520
<211> 279
<212> DNA
<213> A.fumigatus

<400> 2520
ggctcactac tgcagctcta catctccgat ctcaacaata tcacgaaccc gtaccgactc 60
ggaagcgccg ctgcccgcgc tgacgatatt gaatgcttgg actggaataa gaaggtcgca 120
cacatcctgg tcacgggtag cagtgctggc tttgtcactg tctgggatgt caagacgagg 180
aaggagagct tgaccctgaa caacatgggc cggaaagctg ttagcgcagt ggcgtgggat 240
ccggagaagg tgagactgaa caaaatcaac agtagctga 279

<210> 2521
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2521
acaaaatcaa cagtagctga ttttatctct gactttgggc agcccacaaa actcattact 60
tcaacaccac tggagtccga tcctcttatc tacgtttggg atctccgcaa ttcccatgcc 120
ccagaacggg tgagctccga gttcccctat tcctccatag gcaatagtac caatatgatt 180
aacactatct ag 192

<210> 2522
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2522
ttgacccctt ggcggcaggc gtacctgtat gacaatgagg accgcttctt tgtcggctgg 60
cggctgggcg agtcctggat ttattgcacc gtcagctggt gcgtgagtct tttctgtgcg 120
gtggccatga tacttgcggg gaatagtctt ccctccgagg ggggatatga gttgattccg 180
gatcattttt aa 192

<210> 2523
<211> 723
<212> DNA
<213> A.fumigatus

<400> 2523
gagcgcgttt ccttccagct ccgtcggtgt aagacggttc aatctctcgc tatgatcacc 60
aaggccggtg ttcctgccag caaaatcctg gtgggaatgg cgctgtatgg gcggagcttt 120
caaatgaccg aggcaggttg ctatacggcc gattgcacat ataccggtcc aatgtccggc 180
gccacgccag gcgagtgcac cgacaccgct ggctatctct ccaactacga gatcgaacag 240
atcattgctg gtggcggtgt tcagcagtat tcgtcggacg atggcgatat tcttgtctac 300
aatcagaccc agtgggtctc gtggataaat ccttcaacct actgggatcg tctcgcatgg 360
gtccaggggt tgaactttgg aggtacatct gactgggcca tggacttgaa tcagacgttt 420
gcagacgccg atgccagcaa tattgtgtac atcagccctg acatttggtc cgaacctgat 480
ccgacagtgg cttgctatcc gccatgcacg tttgttttcc ctccttggtc cttgtcaact 540
ccaaccacaa tctctcggcc tccagtgacg atgaccctag aggagacatg gcccctaatc 600
gaatcgctga acggcaacat cacgacaaca gggtatacca ctggaacgac ggtcaccact 660

attaccttgc ctcccgtgac gacggatctg tcttcaccca cggggctcga aggatccgag 720
cta 723

<210> 2524
<211> 1179
<212> DNA
<213> A.fumigatus

<400> 2524
ttggaggggc ttatttcgca aagcactttt ccgggatggg ttttttcaac atttggaggg 60
aatggccaag aatcggaagc tcaggagttg ggcagcgggg attatttggc ggaagggtcg 120
gagtttccgg agaaaagaga tttttgccaa gccccaatgg taaaaattca caaggggga 180
ccgccagaca gcggagctgt tccaacgctt caagggaaca gatctcggag gcataaggac 240
gacaatgttt ctaacgcaat cgaaggttgg gcctattctt ctgtcaagcc agttgtaaag 300
gagcagctgg cgaaggattc tgctttcctg aaggaattga tcaaggtgct aaaagccagt 360
atcgccgacg catcggtgct gtatggtggc ctgatgatca ttttgaatct cacacagttt 420
ctaccctcga tgacagaaga acagaagaag atgtctcaac tcaaagcgta cgcagacgct 480
tcaggcgcga cagcacaagc tgggccgcac ccactggacg acgacgagca cgtcatcgcc 540
cgttgcaacg cggtagttca ggccggggtc atgcctcttt tcatcgaatg caacaagagc 600
agtctgcctt ccgcgcaggg gctagtaagc aaaattctgc tctctttgtc ccgagaccgc 660
aaatctagag gaatccttgc gcaacaaggc gcggttaagc tactcctcag cctgggttct 720
gctagacaag gcacgtcggg ctcgatctct gacgaggcaa tgcagagcgc ttcacatgca 780
ctcgcccgta tacttatctc tgtcaacccg tctctcgttt tcccatcctc cggagttcct 840
cagatcacct cagccgttcg acctctgacc aatctgttgg cgacgcccga agtaggcaac 900
ttgactgcgg aacagccgcg cgatttgcta cccgtgtttg agagccttct tgctctcact 960
aatctcgcat cctacccgga tccgtctgca gcagaggcca tagttcgcca tgcatggact 1020
gttgtcgaag acctcctact ctcaagcagc cctatgattc aacgagcatc atgcgaactg 1080
gtttgcaatc tgatgacgtg cgagtctggc gttgcaaagt ttgctgatgg ctccaagcgg 1140
gcaggtgtcc acacacggcg gctagaagga acagcgctc 1179

<210> 2525
<211> 1185
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1074),(1153)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2525
gaatacaggt ggaacacgag cctcacctcc aacgacgtcc accgtcgtct ccccgcagac 60
ggcggcctct ggcacaatga agaacccgtc accacccccc tcttcggcat ctgggaccgc 120
tccgcgggga agatcggcac cctgatcgcc ttcctaccga ccgacaagcc gtcgcccacc 180
gcgcaagtcg acatgtcctc cgtcggcgcc ttcgcctacc gcgtcgaagc caccgagtcg 240
ctcagccgcg tgacgacctt cttcctccag cagcgcatca accaccgcga ccgccaggag 300
atgggaagct ggctgatgcg gttcaaggag ctggatctcc gcctggtcag ctggaagatg 360
tccctcccgc agaaatggaa ggacaccaat atctcgcggc agccgacggt cgtgacgatg 420
gatccgaatc tcacgctggc gcatatcacg cacaacacgt cgatgatcct gctgcatcag 480
cggattgcgt atccgccgcc ggagtggttg gaggtggtca agttgcccac gctgtccagt 540
gccgagacgt gcgaggcggc agcggccgag acggccaata tcaccgagaa gtatctgggg 600
aattgtccga gggacggggt cgtggatagt cagtttgcgt tttgtgtgtt tgtcagtgcc 660
agggttctcc ttggtgagtt ttcttcctct ggacctagcc ggggcttctc acagcggacc 720
ctcgaggtag tgcattggcg atattacggc acgcccttgt cgccagatta ctggaccctg 780
atgaaatgcc tcgatgccat ggccacacgc tggtcgggcc gtgtccaggc cagtcgtcag 840
aactcagcgg cccggtattt tggccagctc aacgccatcc accgggcgtg tcagagcgac 900

gagaacttca agctggatgt cctgggatac tccaacgaga ttgaatggac gggagagaag 960
cagacaacag caccggcagc cgtaccagca ccggacacca ccactggact gtcccaggtg 1020
gcctttccgg cagacctacc gccgatgctg cagtcgagcc cggcgaggat gagntacaac 1080
accggcagcc cggacgaatt gacgacggtg acctccatcc tgctcgatca acagtactcg 1140
gagctggacg gtnttcacca cggaagcgaa ggtccgcgca tgcgc 1185

<210> 2526
<211> 591
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (43)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2526
gcctaccgca actgttcggg agtctctccg ttctttgggg ttntgcggca gcccaaagaa 60
gtccccattc aggagaaata tgactattgt gagaagatca tcgacctact tgagatgcgc 120
ccaatggccg gtgcaacggt gggctcagga ggggctggcc tgaacccaga acaacgcaag 180
cggcttacca ttgcagtaga gctggcaagt aagcctgagc ttctactctt tctggatgaa 240
cctacaagtg gcctcgactc gcttgccgcg ttcaacattg tccggttcct tcgacggctt 300
gcggacgctg gacaagcgat tctgtgcacg attcaccagc catccgcggt tctcttcgaa 360
gagtttgatg acctcctgct gttgcaaagt ggaggtaggg ttgtgtacaa tggagagctg 420
ggacatgact cgaatgctct catcgagtat ttcgagtcga acggtgctaa gaagtgtccg 480
cctcatgcga atcctgccga agtacgtctt gtgcctcatc tgtttaagcc taaactaaca 540
aagttcccag tatatgctcg aggtcatcgg cgccggaaac ccggactata a 591

<210> 2527
<211> 270
<212> DNA
<213> A.fumigatus

<400> 2527
caacagggca aattcctcct tcatatcttc actggactct ttaacacgtt tacattctgg 60
catctgggaa atagctacat cgatatgcaa tcgcggctct tctcgatctt catgactctc 120
accatttcgc cgccctttga tccaacagct ccagcccagg ttcctgcact ttccgggaac 180
ctcctactaa tcacgagtag gccccctcca aaaatctttt cttggcaccg ccgatggtct 240
cccaccgcca tcctcccccc aactggccta 270

<210> 2528
<211> 420
<212> DNA
<213> A.fumigatus

<400> 2528
caaagttccc agtatatgct cgaggtcatc ggcgccggaa acccggacta taagggaaag 60
gactggggag atgtctgggc ccagtctcct caatgcaaac aactggccga agagattgac 120
aaaatcatca gctcccgccg caatcgcgaa atcaggaaga acaaagacga acaccgggaa 180
tacgcgatgc caatctggac ccagatcgtg actgtcacca agcgggcgtt tgttgcatac 240
tggagatccc cacagtatac tctcgtgagt gtgcagtttc gtcatcgggg agttgaagct 300
aatagcaaca gggcaaattc ctccttcata tcttcactgg actctttaac acgtttacat 360
tctggcatct gggaaatagc tacatcgata tgcaatcgcg gctcttctcg atcttcatga 420

<210> 2529
<211> 1110

<212> DNA
<213> A.fumigatus

<400> 2529
tggcgcgtct gcttgcagcc tcgtggtgaa gacgaacacg tgatcaactt cttctactat 60
gtggctaatg agatgcgtgc tatcatggcc aagctcggca tccgcacggt caacgagatg 120
gttggacgtg ctgagttgct cagggtcaga gaggacattc gcagcgccaa gcaggagaga 180
attgacctct ccctcatcct gactcccgct cattccctcc gtcctggcgt ggctacttac 240
aatgtccgca agcaggacca ccgtctgcac gtccgccttg acaacaagct catcgcggag 300
tccgaattgg cgctggagaa gggtttgcct tgcagaattg agtgtgacat tgtcaatact 360
gaccgtgcct tgggcgctac tctgtcttac caggtcagtc gccgctacgg tggagcaggc 420
cttcctcaag acaccatcca cgccaacatc aagggctctg ctggccagtc ctttggtgct 480
ttccttgctc ctggtattac tctcgaactt gagggtgacg ccaacgatta tgtgggcaag 540
ggtctttctg gcggccgtct cattgtctat ccgcctcgcg gtgctgccta caaggcagag 600
gagaacatca tcatcggcaa cacttgtctc tacggtgcta cccggggtac ctgctacttc 660
cgcggtgtgg ctgctgaacg ttttgctgtt cgtaactctg gtgctactgc cgttgttgaa 720
ggtgttggtg accacggttg tgagtacatg accggtggtc gtgtgctcat tcttggctcg 780
accggtcgta atttcgctgc tggtatgtcc ggtggtatcg cctatgtctt agacatgaac 840
caggatttcc tctccaaggt taatatggag atggtggagg tctcgggcct ggaggatcct 900
gctgagatcg cctttgttcg aggtttaatc gaggaccacc accactacac aggctcagaa 960
ctggctgctc gtatcctcct ggacttcact cgcgctcttc cccactttgt caaggtgttg 1020
cctactgatt acaagcgcat tctggaggag gaagctgcca aggcagcagc tgctagtctt 1080
caccacggcc ggctggaagg acaaaagtcc 1110

<210> 2530
<211> 828
<212> DNA
<213> A.fumigatus

<400> 2530
gacataggcg ataccaccgg acataccagc agcgaaatta cgaccggtcg agccaagaat 60
gagcacacga ccaccggtca tgtactcaca accgtggtca ccaacacctt caacaacggc 120
agtagcacca gagttacgaa cagcaaaacg ttcagcagcc acaccgcgga agtagcaggt 180
accccgggta gcaccgtaga gacaagtgtt gccgatgatg atgttctcct ctgccttgta 240
ggcagcaccg cgaggcggat agacaatgag acggccgcca gaaagaccct tgcccacata 300
atcgttggcg tcaccctcaa gttcgagagt aataccagga gcaaggaaag caccaaagga 360
ctggccagca gagcccttga tgttggcgtg gatggtgtct tgaggaaggc ctgctccacc 420
gtagcggcga ctgacctggt aagacagagt agcgcccaag gcacggtcag tattgacaat 480
gtcacactca attctgcaag gcaaaccctt ctccagcgcc aattcggact ccgcgatgag 540
cttgttgtca aggcggacgt gcagacggtg gtcctgcttg cggacattgt aagtagccac 600
gccaggacgg agggaatgag cgggagtcag gatgagggag aggtcaattc tctcctgctt 660
ggcgctgcga atgtcctctc tgaccctgag caactcagca cgtccaacca tctcgttgac 720
cgtgcggatg ccgagcttgg ccatgatagc acgcatctca ttagccacat agtagaagaa 780
gttgatcacg tgttcgtctt caccacgagg ctgcaagcag acgcgcca 828

<210> 2531
<211> 276
<212> DNA
<213> A.fumigatus

<400> 2531
tgtgtacatc cagatggcgc gcacgaacgg aattactaca ggccttcgcc atgggacgct 60
ggtgatgcat tgctgcaaga ctgcactagc tacgggcatg ttggcaacaa gaatgacctg 120
tcagcagcta cgattgagga atacatcatt gtgagtcgtg gactgaacac gactgaacac 180
acgcaagcct catttgttgt ggttggtgac tctagatcac atgttattga tatagaccag 240
cgcaccagcc aagctcgggc tccctcaacc cgctga 276

<210> 2532
<211> 213
<212> DNA
<213> A.fumigatus

<400> 2532
gggaacatca tcaacaagaa gaagaatccg cccaaggaag aggagaagaa gaaagacaag 60
gaagagaaaa aggagaagga gaaagaaaag gaaaaggaaa aggaaaagga aaaagaggag 120
aaaaaggaga tcgatcacca taagactacg tggatcaagg taagtgatct ggattcagag 180
gaccgaagcc attgcatgag gtgtctaaca taa 213

<210> 2533
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2533
ctcgacggca actacattat catcaagcaa tggatctctg aagatttgca ggaagagctc 60
ttcgcccaca ctcggcgact acgcgaaggg aagctcgtca ccgagacctc aagcaccctg 120
accgaactga aagtcaatga tcgcaagaaa gacaggatgt accttgtgcg caagaagagc 180
cctaaccgga gggcatggat tttcacataa 210

<210> 2534
<211> 657
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (284),(381),(585)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2534
ctccccgccg gggggggaaa ttcccgaact ttgtcttgtg ggcaccccaa ttttcccaag 60
gggggatttt acccaccggg tcctttgcaa ggaaagtggg ggttttgggg agaagccagt 120
tccccggctc aaggaacgtt aggaatcgga ttatttaggc gtatcccagt attaaccggg 180
cagggcgcga tattcttcgt aacaggaagg tgtacggggc ctgttatcag gattttgggc 240
gaatggcagc gcgagatgcc cgtaatgttg gactttatgt tctnttttaa cgagcaattg 300
aagcggggtc tagctttagt tgcgagctca gagcagtcag agcagccact caaatcgact 360
tcgtcttcgt ccatcaactt ngtgtctggt ggattggctg ccgggctggc cacggcaatc 420
actaaccttt tgagtgccgt caagacccgt ctgcagctta tgcctggcaa gtacgggaac 480
atgatacgtg ccgtccgctt gatgattcgc gaggatggcg ttcgaagtct gtttggcggc 540
ttgggacttc gcattaccag aaaggcactc agctcagcac ttgcntggac cgtctatgag 600
gagttgattc tgcgggctga agctcgctgg gctgaaaagg acaagatcga cttatga 657

<210> 2535
<211> 417
<212> DNA
<213> A.fumigatus

<400> 2535
aaatatcaag tccgaggcct cgcgtaccca agaggaattg cgcgacctga gatattcgag 60
ttcaactccg tcaacgacca ctgcgaccgg ccagcccctg acatgtatgt catgcaatat 120
caagtcaagg caacaacctc agaagacaga gctaatgatc gcatagacta tcattccttg 180
ctttacagac tcctaagcgt gagttatctc ctggtctggt ctcaatctta tatatctgct 240

gacatgcacc agtgggagca acccagagct actgccgttt ccttcgtgag cgtcatcgcc 300
tttatctttg ccgcccgtta cttgcccctt cttcgttggt tcttcaagtt tacgtatctg 360
gctttgggat gtgagttgct attggttggt gcgtttttgc gatcgctggc tgattga 417

<210> 2536
<211> 570
<212> DNA
<213> A.fumigatus

<400> 2536
gtttcccttt ctcggggatg ctcacatcgg attgtgattg tccttcatcc aaagagtgaa 60
ccaacctccc ccggacccaa accgccttta cattccgatc atcccccgtc cacacccatt 120
tatgcacctt ctccgtccac gactcccatc caaacacatc caccacccca tgctcagctg 180
tcggggatga cgatgtatgc gaatgaccca accgcaccat ttgtgcatca aaactcatcc 240
cgacctcgaa acccccaatc tccccagcca gatccacaac cgccgcgccg ccccgcgtcg 300
caaggtacag accctcctcg acactcagca cctcctcacc gtcgtcccca tcaccaggat 360
catcagtccc gctatgccgc aaaagcctcg aaacaagaca tccctgccgc acagcctcga 420
gcacactaca gttatacccg ccgcttacat ccgtccctag gcccacctcc acaccagcct 480
ctagcagctt cctcacggcg cagagcccgc ttcccagcgc ggagttggac gcggggcaat 540
gcgatacctt ggcgcctcgc gcggcgatga 570

<210> 2537
<211> 270
<212> DNA
<213> A.fumigatus

<400> 2537
cgatgtatgc gaatgaccca accgcaccat ttgtgcatca aaactcatcc cgacctcgaa 60
acccccaatc tccccagcca gatccacaac cgccgcgccg ccccgcgtcg caaggtacag 120
accctcctcg acactcagca cctcctcacc gtcgtcccca tcaccaggat catcagtccc 180
gctatgccgc aaaagcctcg aaacaagaca tccctgccgc acagcctcga gcacactaca 240
gttatacccg ccgcttacat ccgtccctag 270

<210> 2538
<211> 453
<212> DNA
<213> A.fumigatus

<400> 2538
cccaaccgca ccatttgtgc atcaaaactc atcccgacct cgaaaccccc aatctcccca 60
gccagatcca caaccgccgc gccgccccgc gtcgcaaggt acagaccctc ctcgacactc 120
agcacctcct caccgtcgtc cccatcacca ggatcatcag tcccgctatg ccgcaaaagc 180
ctcgaaacaa gacatccctg ccgcacagcc tcgagcacac tacagttata cccgccgctt 240
acatccgtcc ctaggcccac ctccacacca gcctctagca gcttcctcac ggcgcagagc 300
ccgcttccca gcgcggagtt ggacgcgggg caatgcgata ccttggcgcc tcgcgcggcg 360
atgagttccc gctcggacgg cgacagatgc acggcgtgcg cgaggatcgt gcgcggcgtg 420
aggagtccga agtcgtcata cacagacgtg tag 453

<210> 2539
<211> 1068
<212> DNA
<213> A.fumigatus

<400> 2539
tcggccgggg ggggcatgga caacccctct ttgtgcccgg actactatct ggactcctct 60
cccgaatctt cagtcagcaa atccaaggaa acaattgccc acatccattc catggacccc 120

gccggcacgc tcatccaccc catcctcacc ccgcgctttg cgccaacctg ctccccgcct 180
gccttccacg gcctcgccca gctagcgcag tcgtacaacc ccccgctcca catccaaacc 240
cacctctccg agaatacagg cgagatatcg ctcgtccgcg agcttttccc ccagagcaaa 300
gactacacgt ctgtgtatga cgacttcgga ctcctcacgc cgcgcacgat cctcgcgcac 360
gccgtgcatc tgtcgccgtc cgagcgggaa ctcatcgccg cgcgaggcgc caaggtatcg 420
cattgccccg cgtccaactc cgcgctggga agcgggctct gcgccgtgag gaagctgcta 480
gaggctggtg tggaggtggg cctagggacg gatgtaagcg gcgggtataa ctgtagtgtg 540
ctcgaggctg tgcggcaggg atgtcttgtt tcgaggcttt tgcggcatag cgggactgat 600
gatcctggtg atggggacga cggtgaggag gtgctgagtg tcgaggaggg tctgtacctt 660
gcgacgcggg gcggcgcggc ggttgtggat ctggctgggg agattggggg tttcgaggtc 720
gggatgagtt ttgatgcaca aatggtgcgg ttgggtcatt cgcatacatc gtcatccccg 780
acagctgagc atggggtggt ggatgtgttt ggatgggagt cgtggacgga gaaggtgcat 840
aaatgggtgt ggacgggggа tgatcggaat gtaaaggcgg tttgggtccg ggggaggttg 900
gttcactctt tggatgaagg acaatcacaa tccgatgtga gcatccccga gaaagggaaa 960
cctacgtgga tatgggcacg cacaggggcg gcctgggaat cgaagtggtg gttgtgtgga 1020
ttggggttcg tgagtgcttg gtttatttt gatagagtca tgcggtaa 1068

<210> 2540
<211> 582
<212> DNA
<213> A.fumigatus

<400> 2540
acgaatggag gcgacaaatg gaagaagggt ctggatggct tactgaacac cacgttccag 60
cggttctttc cctttcaaaa tggcatggtc atgtctgaaa ttgcctgtga gccgaacatg 120
aagtgtgatc gcaaccagga ctgtttcaag ggcttccttt cctcctggtt aacttttatg 180
accaccattg tcccgtatac gtcgtccgag gttgtcccaa ggatccagca gtcggcactt 240
gcggcagcca aacagtgttc tggcggtcag aatcgcactc tctgcgggcg gcgttggcat 300
caggatacct ttgatgggac gagttcatta gaggagcaga tgagcgcttt gagcgtcttt 360
tcgtcctcga tgattgcgca taggatgcag gctcaggcgc cgttgaccgt agacactgga 420
ggtacgagca agagtaacgc gagcgcgggc acagggtcag agcaagccgc ccctcaaccg 480
cagccagtca caacgggtga tcgtgctggt gcaggaattg tgactgtagt cttcctcagc 540
ggttggatcg cagcagtgac ctggatggtg tacgggagat aa 582

<210> 2541
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2541
gtccggcatg gaagtatgat gagcatacag acgaatggtg taagtcttcc agacataggg 60
tttacccaaa tgatagaagg ctcatcaata acagatatgc atctgttctc gccatctcag 120
ccagacctga actgggacaa tcctgaggtg cggaatgcag ttttcgacgt tattgatttc 180
tggggacaaa aaggaacaga cggcttccgg gtatatcagc catga 225

<210> 2542
<211> 237
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (116),(120)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2542

aaaaccttgg gggcggatat gttgtggttg acaccaattt atgaatcacc cttcgaagat 60
caaggttacg acattgcaaa ttacaagggt atcaatccaa tatatgggac catganagan 120
tgggaagacc ttgctgcaga aattcatagg agaggaatga agataatgat ggacatggtg 180
ttcaaccaca ccagctctca ggtgagcgga tctaatgccg aaacatcatt atgctaa 237

<210> 2543
<211> 765
<212> DNA
<213> A.fumigatus

<400> 2543
aaactaggcc gccagtccac atgggagcag tcggccgaca tccccgacga ggacactagc 60
ctcactgtct ttaaccgtgg caacgtcatg ccatcaacca aaatcctcac attctaccgc 120
aagcagcctt tcgatttgga ggctcgctac gctaagcccg acatgcttcc tggcaagatc 180
aacccttgga ttggccgctt ctccgtcaag ggtgtcaagg ctgatgccaa cgacgacttc 240
atgatctgca agctcaaggc tagactgaat ctgcacggta ttctgaacgt cgagtctggt 300
tactacgttg aggatgtgga ggttgaggaa cccgttgacg aggacaagat ggacactgat 360
gctcccgagg gcgagcagcc caagaagacg cgcaaggtca agaagcaggt ccgcaagggt 420
gacctgccca tctccaccgg caccaacagt gttgatcaga ccgtcaagga gacctggatc 480
gagcgtgaga atgctatgta catggaggac aagttgattg ccgagaccga cgagaagaag 540
aacgagctcg agtcgaccat ctacgagctt cgtgacaaga tcgacggcgt ctatgccgag 600
tttgccagtg aggaggagaa ggacaagctg cgtgccaagc tgaccgatat ggaggtgagt 660
acaatgtctt gtccacatac aggacgcagg aactcgaagc taacgcgcta cgtaggactg 720
gctctacgaa gaaggcgaag acactaccca gtccgtctac gttgc 765

<210> 2544
<211> 840
<212> DNA
<213> A.fumigatus

<400> 2544
ccccttttg caggactcct cgacatggtg gccgaccaga agtattgccc taacatatcc 60
aatttcctgt tcaacgaccc cgacggcaac ataacgggtt ttgtgccaca cctcaccccc 120
ctagcaccgc cagtgcttgc gctatcccgt cttgccattt ctcctgccaa acccatccca 180
ccggctgaat ccaatcaggc ccttgtactt aaccccgtac cccctagcgc tcggtggatc 240
catcacagca aaacacaagg gcgtcgtctt tataacctcc ttgcccaatg gaacgtcctt 300
tatgttggtc tcttcaaccg acccgcgatc actctcctag ccccctgggg caacggcgaa 360
gccatttcgc agccaagtat caaccagttc gacctcttcc ccaggctgaa cacgaacttt 420
tacggccccc caatcgccaa tatcactgca atgcgccagc cccgcgccca gggcgtgcag 480
gcgaaccgtg tctccactat cactgtattc aacacgaaag acaacaccga tgcgttcacg 540
ggactattca caggagacgc acatgacacg attctacacc cagacatccg aggaaatctg 600
accgcgcccc agcatttctc ggtcatgaaa gtcccgcatc atggcagcaa gcacagcgaa 660
tcccaggaat tctattatca gtataccgca gacgtgtact tgatatcgtc tcggttttcc 720
attcatgggt attttcattc tccgtgcacg ctaccatctc ttcgaatgcc aacggatact 780
gactgtgagg gcaacaggct tccaaccttg aagatcacga aggagcgttt tcaccacagg 840

<210> 2545
<211> 423
<212> DNA
<213> A.fumigatus

<400> 2545
tctcatccca ccaattctag ccagagcgtc gggggtcgtg ctagatgtcg gcccggggac 60
aggcacgcag atgccgctgc tccgcgggcg cgcacaagcc atcaaaacga tttacggtgc 120
ggagccgtgc cgcggtctgc atgcggagct gcgcgcgcgc gcggaagagg aggggttggg 180
ggagaagtac caagttctgt cctgtggtgc tgcggcgcgg gagctggtgc cggagttgca 240

gcgggaaggg ctgcttcctg ccggggatgt ggagggagtt ctggcaagca cggacggggt 300
cttcgatacg attgtgtgtg tgcgggtttt gtgctctgtg ccggagttgg agaggacggc 360
gcaggagttg tatgcgctgt tgcggccagg ggggcagttg cttgttgtgg agcatgtggt 420
taa 423

<210> 2546
<211> 609
<212> DNA
<213> A.fumigatus

<400> 2546
acgcgcccag ccgcccgccc aacaagcacc caacaacaaa accaagacca agaccaagac 60
caagaccaaa agcaaacgcc gctccagcca cctcagatcc agaactcaac tgatctcatc 120
ccaccaattc tagccagagc gtcgggggtc gtgctagatg tcggcccggg gacaggcacg 180
cagatgccgc tgctccgcgg gcgcgcacaa gccatcaaaa cgatttacgg tgcggagccg 240
tgccgcggtc tgcatgcgga gctgcgcgcg cgcgcggaag aggaggggtt gggggagaag 300
taccaagttc tgtcctgtgg tgctgcggcg cgggagctgg tgccggagtt gcagcgggaa 360
gggctgcttc ctgccgggga tgtggaggga gttctggcaa gcacggacgg ggtcttcgat 420
acgattgtgt gtgtgcgggt tttgtgctct gtgccggagt tggagaggac ggcgcaggag 480
ttgtatgcgc tgttgcggcc agggggggcag ttgcttgttg tggagcatgt ggttaatccg 540
tggcggactg cgaaggggggc gcttggtctt cacttcggaa tagccaaatc ggcacttatt 600
cctaaaata 609

<210> 2547
<211> 372
<212> DNA
<213> A.fumigatus

<400> 2547
cccttccttt tctgttttcc gaaagaccag agacacatgg cgctcctttc tccggggagt 60
caggaattcg aacatttgct caaatggcta gtctccagac agacatctga gttgggtgaa 120
gaggagtcgg acgaggaagt tgatggctca cctgaccaga gtgatagttt gcatcgagac 180
acaagcaacc tcgctctcaa tgataagatt gccgtgcttc ctaatctagc cccgccaaca 240
gaggaatctc tactttgggc agggttcaat gggcgctgca acaaatatgc ggatacatgt 300
tactcgcttt ggaactccgg tacgctcgta gtaagtattt accggttttg cgatgttgaa 360
cactactcat ag 372

<210> 2548
<211> 645
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (360)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2548
ggacactatg tatggatttt cctttccgaa tttggcacca tccttctgta cggcatcatg 60
ttttttctacc tccggcgtca gatgaaacaa gcggcggccc ttcgacagaa ccaccaggaa 120
agcctcaacc gcttgaaccg agtcgtggtg tacatggtta tctatcctct ggtatacgtt 180
cttctctccc tgcctctggc tgaagggcga atgtcgacgg cccgacatgt cgttcccagc 240
aaggaatact ttgccgccgc cggtgccctc atggctctat ccggacttgt ggatgtcgtc 300
gtgtacacct tgacccggcg gcatctgctc ctggacaccg aggtcagcac gtcggatcgn 360
tactacgcgc acacgggctc gaacctgtac aacacgcacg tcagcaccac cgtggcgggc 420
cccgagagca agaagtctcg ggtcaagtct cgcctccgcc gcgggatgca gagcatcaac 480

gatacggtgc tcgatgaccg cggcgactcg acagaagaca ttgtgccgaa aggcccgaaa 540
ggcgccgcca tggagctggg ccatatggcc cacggcgtgt accaagaaac gactatcgag 600
atcacgcacg aaccggtctt cacgactggg ctagaagcaa cgcgt 645

<210> 2549
<211> 792
<212> DNA
<213> A.fumigatus

<400> 2549
gggaaacggc cccaatcaaa ttattgtccg ccagacttgg gggacgtaaa aggacgttca 60
gatggcttca tttctcctga acatcgtcat ccgtcgggga ctgaggacga gcacggcaag 120
aacccactct atctcatcaa ggaagagatc gccatcatga agaagctgaa tcacaacaac 180
ctggtgtctt tgattgaagt tttagatgac cccacagagg actccctata tatggtaatg 240
gaaatgtgta aaaagggtgt gatcatgaag gttggactgg aagaaagggc tgacccttac 300
agcgatgaac aatgtcgctg ctggttccgc gacttgattt tgggaattga atatttacat 360
ggccagggta tcgtgcatcg agatatcaag ccagacaact gtttattgac gaatgatgac 420
gttctcaaga ttgttgattt tggagtatcc gagatgttcg agaaggattc ggatatgttc 480
acagccaaat cggctggctc gcctgccttt cttccaccgg agctgtgtgt ggtaaagcat 540
ggcgatgtct cgggaagagc agcagatatc tggtctatgg gcgttactct ctactgtctc 600
cgctatggta ggctgccatt tgagaagcaa agcatcttcg aactctatga agccatcaga 660
aacgaccccg tggtatgcga agaggaaacg gatgataatt tcaaagactt gatattgcgg 720
atactggaga aggatccaag caaaagaatc acaatgagtg tcttaacgcc ggagcgagat 780
aagcgtaggg ag 792

<210> 2550
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (7)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2550
ggtaatnatg tactccccaa ggcatcgtac gctagaatgg agattaatag cgatatacaa 60
ggaaagctca tcttagtttc atatgttcgt aagggacagg ttactcgact ccagcgccac 120
ggtgaggttg agcttttcgc tggagacctg gagggcatct actacaacag ccaggcacgt 180
agttatccag ccggtatctt tctagaggtc atatga 216

<210> 2551
<211> 846
<212> DNA
<213> A.fumigatus

<400> 2551
gacctccacc caactgcaac acgtgatctg acgagcccag ccatatcaat tggatggaac 60
acattcgaga aactggacca gagctgcgtt gagtatggca tttccagtaa tgcactcacc 120
tccagggcat gttcgtcgat atcaacaacg tatgcgactt cgcgcacata ctccaacgtg 180
gttgtgttga cgggcctgac ccccgccacg acctactact acaagatcgt ctcgggcaac 240
tcgacagtca accatttcct cagtcctcgg actccaggtg atactactcc gttcagcatg 300
gatgttgtca ttgaccttgg cgtgtacggc aaggacgggt acaccgttgc ttcgaaaaag 360
atcaaaaagt ccgacgttcc ctacatccaa cctgagctca accacaccac catcggacga 420
ctagcccgca caatcgatga ttacgagctc gttatccatc ctggagatac agcatatgct 480
gatgactggt atctgcgtgt cgataacctc ctgaccggca aggattcgta tcagtcaatc 540

ctggagcagt tctacaacca gctcgcccca atcgccggcc gcaagcccta catggccagc 600
cccggcaacc acgaggccga ctgcacggaa ataccgttca cgtccggcct ctgccctgaa 660
ggccagcgca acttcaccga cttcatgcac cgcttcgcca acaccatgcc cagagccttc 720
gcctcatcct cctccagctc aaccgcccag tccctcgccg ccaaggccat atccctctcc 780
aacccgccct tctggtactc cttcgaatac ggcatggccc acatcgtcct gatcgacacc 840
gagacc 846

<210> 2552
<211> 594
<212> DNA
<213> A.fumigatus

<400> 2552
tgcaaaaggc aatattgttg gattagcttc cgagaatatt ggtctctggc agccccaaca 60
gggatactat gtacgtattt ccgatcgggc ttcctccgtc ttcttgactg ttgccctgac 120
agttcgtcaa aggaacaatc aacaaacgat atctggcgat gcatatgcct gtctgttcag 180
cgcgctatca gccagcataa catcgacccg actactatcc gcggaattgg gttcgacgcg 240
acgtgctcac tggctgtttt ctccacggtt acagacgagc ccgtatctgt caccgggccg 300
aactttgatt ctgaccgcaa cgtgatcctt tggctggacc atcggccagt aaaagaaacg 360
gaaaagatca atgctaccaa gcacaacttg ctgcgatatg tcggaggaaa gatgtcgatt 420
gagatggaaa ttcccaaggt tctgtggcta aagaacaata tgccaaagga gctatttgac 480
cagtgcaaat tctacgactt ggccgatgct ctgacgcata ttgctaccgg taatgaaaag 540
cgaagcttct gtagcttgta tacacagccc ggggatggaa gtaaagcgct tcgg 594

<210> 2553
<211> 522
<212> DNA
<213> A.fumigatus

<400> 2553
cctggctacg gcttgcttat gccctctggt gacattccac ccagcatggc ttcgctgccg 60
tatcgttcat ttaggcagcc ctccaggcag tcttctcgac aggcttcaat ggacactcga 120
gacgacattc agatccacca ggatcattac atcggaatag atgttggcac tggtagtgcc 180
cgcgcttgta ttattgatgc aaaaggcaat attgttggat tagcttccga gaatattggt 240
ctctggcagc cccaacaggg atactatgta cgtatttccg atcgggcttc ctccgtcttc 300
ttgactgttg ccctgacagt tcgtcaaagg aacaatcaac aaacgatatc tggcgatgca 360
tatgcctgtc tgttcagcgc gctatcagcc agcataacat cgacccgact actatccgcg 420
gaattgggtt cgacgcgacg tgctcactgg ctgttttctc cacggttaca gacgagcccg 480
tatctgtcac cgggccgaac tttgattctg accgcaacgt ga 522

<210> 2554
<211> 270
<212> DNA
<213> A.fumigatus

<400> 2554
tgtggcgccc ctcttcctcg cgctgatcaa cgggttcacg tgttcttccc ttccgagtgg 60
tccgcgagta acttcttcac cgcgtacatt ggcattcccg ccttcctggt gctgtatttc 120
ggtcaccggt tgatcttctg gagcgacccg tgggcgtggc gcagcgagga ggtggatatg 180
cagactgggc tggcggagat tattgccgcc gagaagccgc cccgggtgag ggatacctgg 240
tggaagaagt tgatggcggt tgttgagtga 270

<210> 2555
<211> 297
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (241)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2555
ttccctttcg cagcatctgc accaatcggc tcaggaatag aggttatccg accgaacgag 60
ccaaaacgca agtccgccca gaaccgtttc gtctcctcta tatacctcgt ctcctccagt 120
gggatcgccc agtcccgact atgggattct gctatctcaa gatacggcgt cacggcccgc 180
gtcaaattgg ctttgggggg ttcccggaaa gtgaacgagg agatcaccag ggggacacct 240
nggagatgca acggagtctt agggtcgagg tctaccccgt tcggatgtct catgtag 297

<210> 2556
<211> 609
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (18),(20)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2556
ccaagatttg cttctcanan ttcatccccc cggcgcatcc gtcaacgcca gagacccttc 60
ctcaatatgt caagctggcc tcgatcagca tgggcaacac ggttgtcgtg cacaccttcc 120
cgctcgcccc atcaccgccc tccagccgca ccccacggta cgtgctggtc atgcccggcg 180
agtcggagat ctggaccaac ttcgccagcg gctttgcagc cctgctctcc attatcaccg 240
tctgcatcct cctccaggcc ttcacggaga tcagaggcct catgcccccg tacctggggg 300
cctccgcgtg gcttcccccg gatatccgcg cggccattgc gcgcccgtac cacccctcc 360
cgcctcaccc tctcccaacc gcatccgcgc tctcggccca taccgattcc ccaaagcaga 420
ccctccgaga tctccttcat gcccgtcatg ccgccggggc caacgatgcc gatgcggccc 480
cggacgctga cgcaacgact ccagctaact cggtctttgt ccgatgtctg cctgaatcca 540
acaacatcta catcgagagc tctgacgctc attcctcccg ctcatcttcg tcatctcctg 600
aagaggtag 609

<210> 2557
<211> 834
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (96),(169),(171)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2557
agaatcccgg agggccagca gcagaccatt atggcggtat ttggtagcga ccagtccatc 60
gaggtcttgg cagttgagtt cagtgcaaga aagggntacg gcaaactccg gcggtataca 120
accttacgag acgtccaccc gttttcgatg accaagattt gcttctcana nttcatcccc 180
ccggcgcatc cgtcaacgcc agagaccctt cctcaatatg tcaagctggc ctcgatcagc 240
atgggcaaca cggttgtcgt gcacaccttc ccgctcgccc catcaccgcc ctccagccgc 300
accccacggt acgtgctggt catgcccggc gagtcggaga tctggaccaa cttcgccagc 360
ggctttgcag ccctgctctc cattatcacc gtctgcatcc tcctccaggc cttcacggag 420
atcagaggcc tcatgccccc gtacctgggg gcctccgcgt ggcttccccc ggatatccgc 480
gcggccattg cgcgcccgta ccacccccctc ccgcctcacc ctctcccaac cgcatccgcg 540

ctctcggccc ataccgattc cccaaagcag accctccgag atctccttca tgcccgtcat 600
gccgccgggg ccaacgatgc cgatgcggcc ccggacgctg acgcaacgac tccagctaac 660
tcggtctttg tccgatgtct gcctgaatcc aacaacatct acatcgagag ctctgacgct 720
cattcctccc gctcatcttc gtcatctcct gaagaggtag aagagcagcc atcccgatcc 780
tgggatgacc tcgacgagga ggagcgttct gcctggaacc agcgcttgat cgat 834

<210> 2558
<211> 873
<212> DNA
<213> A.fumigatus

<400> 2558
gagcatacta ttgcggatcc ggctgctccc ttagtgaaga catcgcctgt caaaatggct 60
agctttcttg ccgtcgcagc atatctgact gtgattgctg cggcccatcc actgtcgacc 120
aggctgtacc ctaccgttct acggagggat accacggcca ccagcgttga gcctgtgtca 180
gcaatctctc tttactatca agcagcagcc aactcgagct caatcggcgc tctcatccaa 240
gcggacttgc agctcccctc catcgtcctc gaagatgtca acgatgtatc aagcgtgacc 300
tgttcggtcg acagcctgac ggtgacgttc aactccacga ccaccttcaa ccaagcatac 360
tcctcctggc ctcgctcaca ccttctcctc gtaaccaacc acctagggaa ctgcgacgcg 420
gaagccgacc gcggactcta ccgcgccgcc tctctcctct tccacccctc aaccctcacc 480
atcactgcct ccacacgcaa aaccaacctc cagcaacaag ccaaaaccat caccatcgtc 540
ttcggccacc ctgacccatc ccaacacaag cgcgagctcg ccaccagcat cgacctcgcc 600
tggtcaggcg acctcatccg caccaacggc ctaaccatcc acgccaacca cgccaccctc 660
gacgccgcaa tctccatcga cgggatcatc gcgtaccacg tcgagacaag gacagcaacg 720
accctcagcc tcgacatcgc cgtcgcgctg gattcgagtc tcggcctctc tgtctcagcc 780
gcaggggtcg ttcctgcgca acgtctacac ataccgatgg agcccccgtc gaaggcgggg 840
ggcttctcca tccccgggga tcttgacagt ggg 873

<210> 2559
<211> 378
<212> DNA
<213> A.fumigatus

<400> 2559
gtctttggta ttacgtacat tttggccagc ttcaaccaac gtctctggca ctttgcttta 60
acccaggacg tgctgctcgg catcggggcc agcatggtat atgtatccac catttctgtt 120
gccctgacgt ggttcgatca gcgtcgtggg ttggccatgg ggatcttcat ctccgggagt 180
ggcgtcgggg gcattcattg tcaagcgtcg acgccttatt tatcgtctta tcattctcta 240
tggatctttc gccagcgcat acatctcgcg tttccctgcg tctctgatcg aactgttcgg 300
cgtgcagtac ttgaccagcg tgaacggggt ccttgtacct cattcggggg atgggagcgt 360
cgatcgggac gccgttga 378

<210> 2560
<211> 408
<212> DNA
<213> A.fumigatus

<400> 2560
cgtggttcga tcagcgtcgt gggttggcca tggggatctt catctccggg agtggcgtcg 60
ggggcattca ttgtcaagcg tcgacgcctt atttatcgtc ttatcattct ctatggatct 120
ttcgccagcg catacatctc gcgtttccct gcgtctctga tcgaactgtt cggcgtgcag 180
tacttgacca gcgtgaacgg ggtccttgta cctcattcgg gggatgggag cgtcgatcgg 240
gacgccgttg actggaatgc tgattcctca gtcaccgcat tggtctcttc aattgtctac 300
gaccgggtag ggatcgactg cggtgttctc ctctttgcag ccaccctggc ctgcgttccg 360
gtgagaattg atgcaaccct gggcgaggtc gggaggtgga aagcttga 408

<210> 2561
<211> 207
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (106)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2561
ctgggtaacc gcgtattcgt ggccggccac agcagcctgt tcacaaccgg cggcatgcac 60
tcagctacca tccgcttgat ggccgcagtt ccccaagaag tatccntcgc atcgttcgga 120
tccgacattc gagaaccgtt ttaccaattc tcttgccccc ggccttgggc aaacccttct 180
tccaacgcct tcgcccaaaa cccccgt 207

<210> 2562
<211> 639
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (119),(141)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2562
agttcaaatg atgacctctc tcgccgcggg ccaggaaacc cccttcaaag ggttccattg 60
tcaagtgtac gccctgtcca agcatccgga cgtgcaaacg cgctcccgca agaaagtgng 120
taccccactt cctcccattt ngccggagca ccccgaaccc ctttcgcaag ccacactgga 180
ctccctccct tacctaaacg ccttctgcaa cgaggtcttc cgcttcaccc ttctgttcca 240
ggcaccgtgc gtgacgcagc caaagacact acacttctcg gataccctat ccccaagggc 300
acgaggatac tcgtctctcc ggaagtcatc aaccacagta aggaattgtg gggtcctgac 360
gcggaccagt ttaatgttga gcggtggttg ggtcccgggc gagcgaatac cggcggtgcc 420
agtagtaatt actcgtttct gacatttttg catggcccgc ggagttgtat cggccagggg 480
tttgcaaagg cagagttggc ctgtctcgtg gcggctattg tgggacggtt ccagatggaa 540
ttgaaggacg cggatgccaa gcttgaagtg agacggtcgg ccacagttgc tccaaaggac 600
ggcgtgctcg ctaggtttac cccgttggag gggtggtaa 639

<210> 2563
<211> 759
<212> DNA
<213> A.fumigatus

<400> 2563
cgcatagctc ggattttcgt ccgccgtggt gaggacccgc gtcgaattga cttgagcagg 60
gcactcgacc ggatgattgc cgttctccca gacgaaatgc gcatgcaaag cctcctgcgt 120
cctctcgaag caaccggtgg ggaacgactc cgtgatctgg gcctccgaac ccgcgatttc 180
tgggcattgt ttgaggcgtg ggaaaccgtg catctggtgc caaccgatga tggtctatac 240
atccgcgacg acattatcca gtacctgaaa cgacatccgg aggtggcaga gagtatggtg 300
agaaacacag cggacattat ccgctcctat gagtcgtatc gctcgctcat tacccaacta 360
tcaacactgc tcttcccgtg gaccgcaccg catttcccgg accatattca tctccacaca 420
cagattcata gtggcggtcg ggggctggtc ttttcagccg gggacaacca agcacctttt 480
ctactcgctt cgattccggc tatccgccag ttggggtgcg acctgccaat cgaagtcatg 540
tatctgggcg atcgggacct gagccaggat atgcgtgaac agttggaggc gctacccggt 600
gtgactacac gagatctgag tgtgatggtg aacgacaatg gctggacatt ggctggatgg 660

gccggaaaac cgtttgcgat tctattttcg agttttaggg aagccatttt tattgatgcc 720
cgattcgctg ttcctgcaga acccggaaga cttgtgtga 759

<210> 2564
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2564
caaaacagtg aacgcctcat caaccctgct ctccgacgct tcgatatccc tttcaagccc 60
attagtcgca tgactaccgg tttcgtcgcc atagcatttg ccattgccat tgcggctatc 120
atccaacaac gtacgtccct tttcgggcat ttcggaggac gttctaatgc cagaatgcag 180
taa 183

<210> 2565
<211> 369
<212> DNA
<213> A.fumigatus

<400> 2565
tgccagaatg cagtaatata tcgacgaccg ccgtctcacg ttagcatctt cctccagatc 60
ccagtctacg cactcatagg actttccgag ttcttctcca gcctgtcagc gatggaatac 120
gcctacacca aagctccaag gtcgatgcgg agtatcgtct ccgcgctctt ccttctcacc 180
tgcaccatcg gttccacggt gggaattact ctgtcgcctg tatccgttga tccaaagctg 240
ctggtggagt atgtgtctct cagcatcgtc atgtttgcca caggtgtcgt gttctacttt 300
tgcttccgca aatacaacca gatggaagag agcatgaata tgataggaga gacagcggga 360
aagcagtga 369

<210> 2566
<211> 474
<212> DNA
<213> A.fumigatus

<400> 2566
catacagatc ttcacccagg gaacttattc gtcagcaatg gccgcatttc atgtatgata 60
gactggcagg gaatctgggc ggcaccttta ctattaaggg cgcgccaccc acacctcatt 120
aattaccaag gggacatcat cctgaagcct ctggtaaact ttaacaatct tgatacagaa 180
gagaagaaaa taatcaggga caagatgagc aagtcaattg tcatctatct ttatgaaaag 240
cagattgcca aggaagtgcc tcttctaaac agagtcatcc atctcaacca tagtcaaacg 300
cgatgcgacc ctatacagtt cattggtgac acttgggacg atgatatcat acctttaagg 360
gagtccctaa ttcaattgga aaggcaagta caagtaccat gccgtagagt ctttattaag 420
cagcggtcta actacacgtt ttctaccaca gaggccggca ggccccgcga ataa 474

<210> 2567
<211> 990
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (716)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2567
aacatcaaag gttggaacaa ctttattctc tttgcattgg gtactaccct tcccgtgtcc 60
cggactcaca aattattctc ttggcagtca cgcatgaaag agctgtatct ccatcgagcc 120

gtcgaagtgc aaccctgttt caatcgagat gtcttgcgtg atctttcaga ccgagcaaca 180
acagcccgcc tagaactcga agcatgggcg gaaggcgaaa atattcagtt tgatacagtt 240
cgtccagctg accgggttgg tccgcctttt ggaaccgacg aggaagatct cgatgcgcaa 300
atcctgcaat ctgccactac cggcagtctg caaaccctac gcgagtggac tgccaaactt 360
catactgccc ccgatgcccg ggatcgtgcg actcgggcct ttctcgcagc aatcaacgaa 420
tactccgatg aagtgcttgc agttctcctg gagagtggat tagttgatat caatgccgaa 480
gatgatatca atgaacgaaa ttgcttacat gaagccgcca tttcagggcg ggactttgtt 540
ttcaagacag gtatctcagc aggggtggat gtgtccagat cagatgtgta cggcaggata 600
cctctgcatt atgcttgtat gcatggtcgc gttgatatgg tgcgggagct gttggctgtt 660
ggccctgata cggtagacac tgcggatcac aacaatttta caccgttgat tcatancatc 720
gtcaaggatc aattggcatg tgctgagcag cttctccagc acaatgctcg cattggaccg 780
gcatcagaat cagaccatat tcctctcaac ctcgcttgcc agcacggatc aataccgata 840
gtcagaatgc ttctcgaacg gaacgcccag ctgcttccgg acgctgaggg aatcttacca 900
cagcacatgg ttgcacgtgc ttcccaaccc cccagaactg ttgcctcctc ctcaaacagc 960
acggagcttg atttgaaacc gagggatttg 990

<210> 2568
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2568
agaatactgg aattggaccg cattcacgaa tttatcatcc tgaggaagat tgagaatgac 60
tacagtttgc gtcgcggagc cataggcagc atatctgaga gcaccagcag agaggacaac 120
aatggtaatg aggaccataa caccggcaag gacgcctgga aaccgacgag gttccttcat 180
tga 183

<210> 2569
<211> 1131
<212> DNA
<213> A.fumigatus

<400> 2569
aaaagactcc gcttttgctc cgaccagaaa ctcctgccga aaggaagcgt aaaccaaaac 60
cgcgcggtgg aatggggaac caacacaatg acaggagctg ctctacttct actcaaatcg 120
tttgtcggca cgggtgtcct cttcttgcca agagctttcc tgaatggtgg gatgttattc 180
agcagtttgg ttttgcttgc tgtatccata ctcagcttct actgcttcat ccttctggtc 240
aacacccgat tgaagatcga aggctccttc ggtgacattg gtggtgctct ctttggaaaa 300
catatgcgac gggtcatcct cgggtccatt gttctcagtc aactgggatt tgtctcggcg 360
tacatcgtct tcactgctga gaacctccag gcgttcgtct tggctgtcag caaatgcaag 420
tcgttcatcg acatcaagtt catggtgctg atgcaattgg tcatatttct gcctctttcc 480
ctaattcgtg acattggcaa gttgggtttc accgcacttg tggccgatgt gtttattcta 540
ctggggctca tctacctcta ttactacgac gttactacta tcgtttcaca aggtggcgtt 600
tcggatatca aggcattcaa cccatccaca tggactcttt tcattggcac tgccattttc 660
acctatgaag ggattggttt gattattcca attcaggagt caatgaagga acctcgtcgg 720
tttccaggcg tccttgccgg tgttatggtc ctcattacca ttgttgtcct ctctgctggt 780
gctctcagat atgctgccta tggctccgcg acgcaaactg tagtcattct caatcttcct 840
caggatgata aattcgtgaa tgcggtccaa ttccagtatt ctctagcaat cctgctgagc 900
acgcccctac aactcttccc tgccattcga atcatggaaa atgagctttt cactcgcagt 960
ggcaagtata acccggggat caaatggaag aaaaactgct tccgattctt tctggtcatg 1020
atttgcgcgt tcgttgcttg gggcggagca gatgaccttg acaaatttgt ctcactcgtc 1080
ggcagtttcg cctgtgttcc tttgatttac gtatatccgg tatgcctctg a 1131

<210> 2570
<211> 255
<212> DNA

<213> A.fumigatus

<400> 2570
gggatacggc tacggacaac acagacaacc acacacacac acacacacac acacacacac 60
acacacacac acacacacac acacacacac acacacacac acacacacac acacacaagg 120
gttaggatag acacgctgac agacgctttt cgtcgaacag agatcaagaa gagaagacta 180
ttccgcatgt tcacctaccg cggaattgac ctcgagcagt atgttcagct atctttcatc 240
catgcattct tgtga 255

<210> 2571
<211> 315
<212> DNA
<213> A.fumigatus

<400> 2571
cttggaatgt gctacaggct cctcgacctc tcatgcgaac agctccgcga tgtcgtgcac 60
gcccgcgccc gccgcaggtt caaccgtggt ctgaagcgca agcccatggg cctgatcaag 120
aagctccgca aggccaagca ggaggccaag cccaacgaga agcccgagct cgtcaagacc 180
cacctgcgtg acatgatcat tgtccctgag atgatcggca gcgtcatcgg tatttactcc 240
ggaaaggagt tcaaccagat tgaggtcaag cccgagatgg ttggccacta ccttggtgaa 300
ttctccatca catag 315

<210> 2572
<211> 978
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (65)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2572
cctgaccccg atgcccagca aatacatcga atcggcccta cgaagccgca gacggatctc 60
gaagntacga ttcacaatat cctggttgaa agtggtcttg cggatccgag cggcaaatcc 120
actgaggagc aggttcagga atttgaggag cttcaggcac gaaagttgcc cattgaggaa 180
atcagagctc gtcgagcaga gttgcgcaag caacgagatt tgctcttccg tgaagaagta 240
cgggccaagc gaatcaagaa gatcaaaagc aagtcgtatc gccgtgtgca tcgcaaggag 300
cgcgagcgtc tacagcagca ggaaagacaa gctcttctgg aagctggcgt ggacttggag 360
gaggaagatc gagagatgaa tgagcgccgc cgagctgagg ctagaatggg cgccaaactc 420
aaggatagca agtgggcaaa gagcctcaaa cagactggcc gtaccgcttg ggacgaggac 480
gctcgacgcg gtgcagcaga gcaggccctg aaggaagaag agctgcggag gagaattgaa 540
gggaagagtg tttcccgagc ggatgaggat tacctgggtt cctccagttc agagtcggaa 600
gacgaagatc cttgggcaga agatgcaggc tcggatgctg agaagcagaa actacgcaag 660
aaacttgagg ggctggagag ggatgatgtg gatgcctcag agataactgg tccacatgca 720
aaacttttct ccatgaaatt catgcagaac gcagaggctg cacgcaaagc cgagaatgat 780
gctgaaattc gacgactcaa ccgagaactc cgcggcgaag aagagtcgca gtctgaagca 840
gagtctgagg ttggtcggcg taaattcggc cagtctcagg atgacaaatc tggcaaggac 900
aagaaacaaa aatcgttgcc caagactgaa tttgaagagg cgccaggttc cgatgatgag 960
gccgacgccg tgccttga 978

<210> 2573
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2573
agaatcatcc gaccactact acctctccct gtccctctta aacttactct cttcactttc 60
gtcacctacg ctcttcttga tccggttgtc atcccccttt ccattgaaat tgtcctcctt 120
tccgtggcat cccgctgtgc ctttacatat cacgtcattc gtgcgcaaaa gggacctgtc 180
tgcagt 186

<210> 2574
<211> 741
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (660),(703)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2574
agaagtccag cggccacggg gagaacaaag tgtggaagcc aggcgggaaa cttgttgcac 60
tctttgggcg agcatagcgg gccggtaaac agggtggtgg tagctccaga tcacgccttt 120
tttgtcactg catcggatga tgggaccgtc aaaatctggg atactacgcg actcgagaag 180
aacttgacgc ccagatcccg ccagacctat cgtcactcca gccaggccaa ggtgaagacg 240
ctgacctttg tcgagaacac tcatgcgttc attagcggtg ccactgatgg gagcatccat 300
gttgtgaagg ttgattacca taatgtcaat gatacggttc gatacgggaa gctgcagctc 360
gtacgtgact accaactccc agcaactgag gatgggtctg tcgagtatcc cctctggatc 420
gaacatttcc gctctgatgc acaatccact ctgttgattg cgaccaacac ttgccgcatc 480
ctagctctgg atatgaagac tatgcttccc atctattcat tgcagaaccc tgtccatcac 540
ggaataccga caacgttctg ctgtgaccga aaacataact ggctgctagt agggaccacg 600
catggagttc ttgatctttg ggaccttcgg tttcaggtgc gtctgaaggc ctggtgtctn 660
ccaggatcgg gtgctatcct taggctccag gtccatccga canagggacg tgggcggtgg 720
gttgcgtctc gagcagtgtg a 741

<210> 2575
<211> 783
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (20),(146),(178)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2575
gctccaggtc catccgacan agggacgtgg gcggtgggtt gcgtctcgag cagtgtgaag 60
tcgcgcaacg agattacaag ctgggatatt gaaaaaattc gctgtcgcga agtataccat 120
gccgacttcg cccggaagca atacanttgc ccaacggagg atctggcggc ttttcaantg 180
attaacgcca aggcgaaatc agccttcgtc aacaccagag actatgaggc ctggcacatc 240
gagagcgacc ggccggaagg aatgctcagt cggttcggca cggaggggca attgtcgggg 300
gccattgagt cctcgggacc atcggcagct agcactcctg ccggtatctg cgcctttgcc 360
gttggctatg actcgccgga ggatggcaag gacaacagca ccagatgcgg attcatcgtg 420
tcgggaggtt gcgaccggaa gatccgcttc tgggacctgg ctcggcccga gctttctact 480
attgtcagcg gtcaagacat tgtttcggaa ggaggggtga gcggcaagcc acgctacgag 540
ttatctcaac cactgccgaa tctactcgtg actacagaac acattcccgg ccctccagcg 600
gctagcagtg cgggaagcaa gggcagcagc aagaaagggg gcggtgccag gcttccacgt 660
agtacagtga tcagcctaca gcagcagcaa ttactgaaga gtcatctgga tttcatccag 720
gatgtagcgg tgttgagggt gccgtcttca ccgcggggtg agaaggatcc gaccatggct 780
cta 783

<210> 2576
<211> 459
<212> DNA
<213> A.fumigatus

<400> 2576
caaccttgta ggggaagttc ttggcgtcct tctggacatc cttgtcatcg aacttgcgtc 60
caatcagacg cctggcagag gttagcacaa actcttcagc tatccaaacc tccattgaaa 120
gactcactta atgtcaaaga tggtccgggt agggttcgag gcgtattggt tcttggcggc 180
gtcaccaacc agacgctctt catcagtgaa ggcgacatag gaaggagtga tacggtttcc 240
ttggtcgttg gcgatgattt caacctttcc gttctgcatc acaccgacac aagagtatgt 300
tgttccaaga tcgataccga tgactgtgga cagcacgatt tagcacgaga acttcatgat 360
ttcggaaaaa caatatccaa gacataccag tgccatagtt ttcctgtact gagtcttcct 420
cagcgtgtgc ggttccgaaa aaagccaatg gcgcaataa 459

<210> 2577
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2577
atcgtgctgt ccacagtcat cggtatcgat cttggaacaa catactcttg tgtcggtgtg 60
atgcagaacg gaaaggttga aatcatcgcc aacgaccaag gaaaccgtat cactccttcc 120
tatgtcgcct tcactgatga agagcgtctg gttggtgacg ccgccaagaa ccaatacgcc 180
tcgaacccta cccggaccat ctttgacatt aagtga 216

<210> 2578
<211> 342
<212> DNA
<213> A.fumigatus

<400> 2578
accgtacact tcttcatcac tttcattgtg aaggagctcc tttctacacc tcacatactc 60
accatgtcgc gactatcgag tcgcaatggc gcggccaagc cgttcactgc ttggaccact 120
gttttctacc tcctccttgt ctttattgcg ccattggctt ttttcggaac cgcacacgct 180
gaggaagact cagtacagga aaactatggc actggtatgt cttggatatt gtttttccga 240
aatcatgaag ttctcgtgct aaatcgtgct gtccacagtc atcggtatcg atcttggaac 300
aacatactct tgtgtcggtg tgatgcagaa cggaaaggtt ga 342

<210> 2579
<211> 366
<212> DNA
<213> A.fumigatus

<400> 2579
gtgagtcttt caatggaggt ttggatagct gaagagtttg tgctaacctc tgccaggcgt 60
ctgattggac gcaagttcga tgacaaggat gtccagaagg acgccaagaa cttcccctac 120
aaggttgtca acaaggatgg caagcctgtc gttaaggtcg aagtcaacaa gtcccccaag 180
atcttcaccc ccgaggaggt ttccgccatg gtccttggaa agatgaagga tatcgctgag 240
ggctacctcg gaaagaaggt tacccacgct gttgtcactg ttcccgccta cttcaacgac 300
gcccagagac aggctaccaa ggatgctggc accattgatg gcctgaacgt cttttcgacc 360
acggtg 366

<210> 2580
<211> 1029

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (15)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2580
ttcggctctt gcatntgcat tcctagcgag gaaacacgcc tgaatgatat tgctggcgtg 60
atcacgaaga tgaaagtgaa tcacgcatca cttacaccat catttgttgg attcctcgat 120
cctgcagctg ttccagggtt agaaagcctt gttctagctg gtgaagcaat gtctccgcaa 180
catttggcga catggtctca tatcaagctt gtgaacggat acggcccaac agagagttct 240
gttgcggctg ccctcaatcc taatatgtct tcttcatcag attgcaggga tattgggttg 300
ccagtcggag tgcgcttctg ggtcgtgaac cctgccaacc atgaccagct tgtgcccgtt 360
ggttgccccg gtgagctggt actggaagga ccgacgcttg cgcgatgtta catcaataac 420
ccacagaaga cgagcgattc atttattttc aacccttgtt ggacgaagcg agatcctaac 480
ggtggctcag accgaaggtt ttacaagacc ggtgatttgg taaggtacaa ctccgaatcc 540
ggatcattaa cgtatatagg acggaaagac gcacaagtca agttccatgg ccagagagtt 600
gagcttggag agattgagag tcagctgagc gcagacacag acatcaagca ctgcacagtg 660
ttgcttccca agtctgggtt cgcacaagga aaacttgtga ctgtcgtgtc actgtccgct 720
ggccctggac aggcactgga ggccgatgca gtgcccctta agcttatcga gcatcgcgag 780
aagcttcgat atgtcaagag tattcaggaa cgattatcaa ttaggctgcc gacatacatg 840
gtgcccggag tatggctatg tgtcgaggct ttgccgatgc tcgtgtctgg taaactggac 900
cggaaatcta ttgcaacctg ggttgcgagc atgtcagaag aaccagaagt acatgcaact 960
gaggccgcca acgctcgtgc cgctaactcg acggaggatc aactggtgtc gatttggagt 1020
cgtgtgctc 1029

<210> 2581
<211> 858
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (768)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2581
cacaccagct tgtacgtctg ctggcaacta taccgtatgc cgattgttga cagtgtccag 60
gtgaactgtc tgcatgaagt attcttcgag gcagcgattg aagatgccag aagactcgat 120
gcctactttg cagagcataa gaagcctgtt gggcctcttc acggtcttcc ggtcagtctg 180
aaggaccagt ttcatgtgcg aggcgtggag acgacgatgg gatacgtggg ctggatcggt 240
acattccagg gcaagaaggg agatccgaga agaggcgtat ttgaaagcga gcttgtcagg 300
gagcttcgca acctcggggc tgtgccatac tgcaagacaa gtgtgcctgc gactctgatg 360
acaggagaaa ctgtcaacca tatcatcaag tatacaacta acccgcagaa ccgactcctc 420
tcgtgtggag gaagctcggg cggagaaggc gcgcttatcg ctctgagagg ctctcctgga 480
ggtttcggca ctgatattgg cggcagtgtc cgtataccgg ctgtatttaa cggcctctat 540
gggctccgtc cctcgtccgg caggatgcct tacgagggtg ctgcaaactc catagacggc 600
caaaatacca tcctatctgt catcggcccg cttgcaacaa cagtgcgctc tctgagactc 660
cttttcaagg ctgtactcag ccaaaagcct tggtttcatg atcccctggt gctcgagatg 720
ccctggcgtg aagatattga acgagaggtg ggggctctgg tgaagcantc agcaactgat 780
ccttccaagc ttgcctttgc tgtgatgcac aatgacggga tactcatgcc tcaccctccg 840
attgcacggg ctatgaag 858

<210> 2582

<211> 294
<212> DNA
<213> A.fumigatus

<400> 2582
ctcaagcgcg gatccgtcgg cccctgtggt agaagacatg cgattcctgc aaaatggagg 60
attcagaatc cgatcccatc accatccgag ctacgggatg ttactggtta cattgagcag 120
ttcttgaccg ctcgggagct agagatcaca ggaaacgatg ctgtggacat cgtgaagcag 180
acgacgtctg gtaactggac tgctgtggag gtaacagagg cattttgcca tagagctgct 240
ctagcacacc agcttgtacg tctgctggca actataccgt atgccgattg ttga 294

<210> 2583
<211> 345
<212> DNA
<213> A.fumigatus

<400> 2583
aggccgttaa atacagccgg tatacggaca ctgccgccaa tatcagtgcc gaaacctcca 60
ggagagcctc tcagagcgat aagcgcgcct tctccgcccg agcttcctcc acacgagagg 120
agtcggttct gcgggttagt tgtatacttg atgatatggt tgacagtttc tcctgtcatc 180
agagtcgcag gcacacttgt cttgcagtat ggcacagccc cgaggttgcg aagctccctg 240
acaagctcgc tttcaaatac gcctcttctc ggatctccct tcttgccctg gaatgtaccg 300
atccagccca cgtatcccat cgtcgtctcc acgcctcgca catga 345

<210> 2584
<211> 360
<212> DNA
<213> A.fumigatus

<400> 2584
aaaacagtca accaaaataa tccaatctct cgtttagtga tcatcagaat gaggctgctt 60
tctactctca ctcttctggt ttccgcagtg gcggccaacc ccatgttcca tactgctcgc 120
caggacacca gcgccaccaa gcccttccat cttaagaccg cagacgcgtc caacgagaaa 180
cacaatgatt tatatgtcta cgcctaccac accggagcag gattcaatga cgctgtcctc 240
acgcccgata aggatactgc cagtacggcg ttcctgaacg gcacatacac ccagttcgac 300
ttgaagactc cattcccttg gggcttcaag ccgatcgctg ttaccaacta tgcccgttag 360

<210> 2585
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (169)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2585
gtgtgccaaa gaccagtgca atttccaatc cggggccaat attacgttat tgcagcggca 60
tttggcaaga taggcgtttt ggttggcaat tatgtgtttc cgataatcca aaacaacgct 120
cccaatgacg tgcgccaagg acaagatctt aactttgtta gcagctccnt atgcatcttc 180
agcgcattcc tggcctactt cttgctgcca cttattgggc aggtatgttc ttga 234

<210> 2586
<211> 636
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (502),(503),(511)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2586
cttgatcagg tactcgactg tcgtgcggaa gtcaccccgg atgctcaact ccttcagagc 60
gacaaccatg tgtttccgcg acgcggaacg gttctcaccg taggcaaaga tgtgaccgaa 120
ctggctgtcg gagaagctgt ggataccacc ggcggtaccg acggagaagt aaccccagac 180
gttggacgaa ctgcggaagt tcaattcatg catggtaccg ctggagggct tgaaaccttc 240
gccgggatct tcggaagtga tacggcaggc ggtcgtgtgt cccttgggct gaaggcggcg 300
ctgcgttttg aagctctctt cgctggagaa gtcgaagtca atctcggacg aggtgttggg 360
gtcaaccccg taaagcaaac ggatgtcacc gatgcggtgc agaaggatac ccatggcgat 420
ttgcaattgg gcggctggca ggttgacacc ggagaccatt tcggtggtgg ggtgctcgac 480
ctgaaaacga aggttcaact cnnagaagta naacttgtca tcggcgtgcg agtacaggta 540
ctcgaccgta cccgcggaga cgtaaccaac cagctttccg aggctgaaca ccgcacgctc 600
catggcctgg aaacttggcg ggcttggcga tggtga 636

<210> 2587
<211> 282
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (273),(281),(282)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2587
attcaggaaa gttggtggcc aatgccccgg ctttgggaaa gtccaggtgg tggggtgaat 60
cggtatggga accacatttt ccttgttggc aggagattgt tccgtaacag ggttgttaac 120
cagaagatta ttggaggagg cccccgttca ccatcgccaa gcccgccaag tttccaggcc 180
atggagcgtg cggtgttcag cctcggaaag ctggttggtt acgtctccgc gggtacggtc 240
gagtacctgt actcgcacgc cgatgacaag ttntacttct nn 282

<210> 2588
<211> 1485
<212> DNA
<213> A.fumigatus

<400> 2588
gagttgaacc ttcgttttca ggtcgagcac cccaccaccg aaatggtctc cggtgtcaac 60
ctgccagccg cccaattgca aatcgccatg ggtatccttc tgcaccgcat cggtgacatc 120
cgtttgcttt acggggttga ccccaacacc tcgtccgaga ttgacttcga cttctccagc 180
gaagagagct tcaaaacgca gcgccgcctt cagcccaagg gacacacgac cgcctgccgt 240
atcacttccg aagatcccgg cgaaggtttc aagccctcca gcggtaccat gcatgaattg 300
aacttccgca gttcgtccaa cgtctggggt tacttctccg tcggtaccgc cggtggtatc 360
cacagcttct ccgacagcca gttcggtcac atctttgcct acggtgagaa ccgttccgcg 420
tcgcggaaac acatggttgt cgctctgaag gagttgagca tccggggtga cttccgcacg 480
acagtcgagt acctgatcaa gctactggag acccctgctt tcgaggataa caccatcacc 540
actggatggc tggatcagct catctcgaac aagctgaccg cagagcgtcc ggatcccatc 600
gtggctgttc tgtgcggtgc ggtgaccaag gctcacctgg ccagcgaagg cggtgtcgag 660
gagtatcgca agggcctcga aaagggtcag gtgccctcca atgacgtcct caagaccgtc 720
ttccccgtgg acttcatcta cgagggccag cggtacaagt tcaccgcaac cagagccggc 780

ttggacagct accacctgtt catcaacgga tccaagtgct cggtcggtgt ccgtgctctg 840
gccgacggtg gcctgcttgt gctcctgaac ggtcgtagtc acaacgtcta ctggaaggag 900
gaagcggctg caactcgcct gagtgtcgac ggaaagacgt gcttgctgga gcaggagaat 960
gatcctactc agcttcgctc cccgtccccc ggaaagcttg tcaagttcac ggtcgagaac 1020
ggcgagcacg tcaaggctgg tcaggccttc gccgaagtcg aggtcatgaa gatgtacatg 1080
cccctgattg cacaggaaga tggtattgtt cagctcatca agcagcctgg ttccaccctc 1140
gaggccggtg acatcctcgg tattctcgct ctggatgacc catctcgtgt cacacatgcc 1200
cagcctttta ccggacagct gcctgacctt ggtcccccgc aagtggtcgg taacaagcct 1260
cctcagagat tctccctcct ccacagtatt ctcgagaaca tcctcatggg ctatgacaac 1320
caagttatca tgaacaccac tctgaaggaa ccggttgagg ttttgcggga tcctgaactt 1380
ccctaccggg aatggaaacg ctcagtcttc ctgcccttca atctcgttat cccccaaaac 1440
ctgggacgcc caacttccaa aacaccgtcc aaacaaggtc aaccc 1485

<210> 2589
<211> 462
<212> DNA
<213> A.fumigatus

<400> 2589
attggtcttt acacgctgct caattcttca cttccagcta ggtctatttg gtatgctctt 60
tcaacctttg aatacagtga caacgcattc gtcatggcct ctatggacaa agtcttttcg 120
ggatattatg cgcgccagaa gctgcttgaa cggagcgaca atcctttctc taagggcatt 180
gcttatgtgg aaggaaagct cgtcttacct agtgatgcta gaataccgct actcgacgaa 240
ggtttcatgc acagtgacct aacctatgat gttatatcgg tttgggatgg tcgcttcttt 300
cgattggacg atcatttgca acggattttg gaaagctgcg ataagatgcg gctcaagttc 360
ccacttgcac tgagctcagt gaaaaatatt ctggctgaga tggtcgccaa gcgtggtatc 420
cgggcctgtc cttacacgac aggaatcggc aggaatatcc ct 462

<210> 2590
<211> 1155
<212> DNA
<213> A.fumigatus

<400> 2590
aaacactacc tcggattcgc ccagtctgaa ggtccctgcg ccgaccacgc cgaggatact 60
ctgaggaagt acgggattag tgctcctagc actcgcgctg aggtgggaac gcaagatctt 120
catgcggaag ttgagagtct tgttgccagc tttgtgggca aggaggcctc gatggtcttc 180
tcgatggggt ttggtacaaa tgcaaatatc tttcctgcct tggtgaacaa aggctgccta 240
attatctctg atgaattgaa tcacgcatcg atccgctttg gtgctcgtct ttcaggtgcg 300
tccattggaa tgttcaagca caacgatatg aaggacctgg aggcaaagct gcgtgaagcc 360
atctctcaag gccagccacg tactcatcgc ccatggaaga aaattctggt cgttgttgaa 420
ggactgtact ctatggaagg atctatgtgt aatcttccag gtcttattgc gctgaagcgt 480
cgctataaat ttcacctttt tgtggatgag gcgcactcga ttggagccat aggtcccaag 540
ggacggggtg tttgtgacta tttcagcatt gacacgaagg aggtagacat tctgatggga 600
actcttacca agtcatttgg cgccaacggg ggctacattg ctgctgataa ggcgatgatt 660
gacaaacttc gcgcgaccaa ttccggtatt ttctacggcg aggcgccagc tcctgctatc 720
ctggcgcaga tctcttctgc gctccgcatc atcaacggtg agattgttcc gggccagggt 780
gaagagcggt tgcagcgttt ggccttcaac tctcgatatc ttcgcctcgg attgaagcgt 840
cttggcttta tagtgtacgg ccacgacgat tcgccaatta ttcctgtcct tcttttcaac 900
cctgccaaga tgcccgcctt ctcccacgaa atgcttagaa gaaagatctc cgtcgtcgtt 960
gtcgggtacc ccgccactcc tctggtatcc tctcgggctc gtttctgcgt ttcggccgcg 1020
cataccaagg aagaccttga ccgcgttctg actgcctgcg acgagattgg caatgtactg 1080
caactgaagt tctctaccgg aattgctgga ggcgctctac ccgtcttcac cacggggctg 1140
gaaggagccg ctcca 1155

<210> 2591

<211> 927
<212> DNA
<213> A.fumigatus

<400> 2591
agacttgttg tcgatcgtac ggttctacca gagtcctact cgacaacaag tactgcaatc 60
cctttcacgg gcgacggccg ccgggacagg cgcacgaaga acgggcccag cttcgagctt 120
acggtgagcg gcggatctcg tgaatcatct atcaagagcc cacagaacaa ggcattggcg 180
ccttgggtgc gctctatcaa cccgtgcaat acctcaaggg atgttcttcg agatactagt 240
tggttcggac gctggcaaca tgcatacccg cgaccacccc atgttgcagt ggtgaaatgg 300
aaaagcttga agtcccccgc tattttgcca ttgacgaccg aagaattccc cacggctcag 360
gagctgggct ctgattatct gcagactccg taccgcgtct ttccaaatga tgacccggaa 420
ggcgtcgaag tacccaagac gaggggtatc ctgctgcgag agatgatttc gttgcgatta 480
tctcatggat tccagatcgt tattgggaaa catgttgcag aggtatctgg acagcctgct 540
ctcgaaacgt tgaacgtctt cgacacccgc agtttggaac gggacggtgc tacggtcttc 600
ctctcgaaag gaaacaccat ccaccggctg atctgtgttg atggtggtga aatcgaggtg 660
acacgtttca cgcaccggac ttcttctact ttggcagctg ggaaaaggga cggcttttcc 720
ctctacactc cagcgatgcg gaccatcctg agcacggagt atgagctcaa gaacatcaag 780
cttgacccga cggccgagga ttacaattgg aactacgctg acaactacgt tgccgggcac 840
cgcgactact tgttcaaccc agcgcagcag ctgcaatttt ggcgggtgcg gtcttcacgc 900
acggggatca acagccgctc tatgggg 927

<210> 2592
<211> 549
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (128)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2592
tgtaaacgac caaacgggtt gtccgagcag acccccaaga tcatcgagcc ggagcccaag 60
agggtagctg ccgaggccgc cgaggagctg cggcgagctg gtgaagcagc acggtctttc 120
cccattgnga ctcccacctg gacaggtcaa tttggagtcg cagggaggcc tgaggaaaga 180
cctctccctt cagcatttgg tggacgaagc agtactgcgc ggcgaacggc ggccggcccc 240
tcgtcagcga gcattctggc taacctctcc gcacggacac cgtcgtcccg gagcgccacg 300
aacagccctg caccgtccag gtcccccact ggcgtggatt tcatgacgat gattcgagac 360
tacatattgt cgcagggtgg agccgtttac acacagatgc tgatagacca cttcaaccgt 420
tactgtacca cgccccaacg atcggccgag tttaaggaaa tgcttaaaac aattgctgtt 480
ctcgaaaagg gtgggcgaaa cgggcgagga cgatggtcgc tgaaacccga attcgccaag 540
gtgaaataa 549

<210> 2593
<211> 495
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (60),(64)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2593
tccaccagct tcagaccccc aacatccggg atcgtacggg acttccgttc atcggtggcn 60

gccntggagt ttgtcctttt cgtcaagtcg tctattttcg ccccctattt cgataacttc 120
gcccttagca tcgacccttt attggagaag aactgcgacc tgctcctgga cagcatcgag 180
actcaccaca ctgagaccaa caacttccag tattaccagc gctcgctcgc gcgcgagcag 240
cagagaatca gcgcttggca gcagaagcgc aagcaggaga atgccactcg cgcggcgctc 300
aagcagcatt ttctgcccga ggacgaatgg cagcgcctgt tcaagctgcc ccaggagcct 360
agccgcttcg agagcatgct gtacagccgg caggtggatc agtacgcgcg ccagattgac 420
agctttgttt cgtccacgac tggaaagatg tttgctgtga agggcaacct gttgcccggt 480
gagaccgcca aataa 495

<210> 2594
<211> 258
<212> DNA
<213> A.fumigatus

<400> 2594
tctgacaccg gctatgttgc atcgcatgct aagctagttt tacaggccgg agcatttgcc 60
gcagtgaccg tagactttgt cgtctacccc ttcgacaccc tcaaaacccg agtccaatcg 120
cccgattaca accgactcta caaggatgca gcgacaggag cagtgcgccg gagcgctctc 180
tacagaggct tataccaggg agtttggagc gtggtgctgt ccacaatacc aggttgtacg 240
ctctcccgtt ccgtgtct 258

<210> 2595
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (59),(148),(152)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2595
gttgcaaaag tccgccttga gataccagga aattctgtgg tgaacttccc ggtgaggant 60
cacaactttc acctgatcac ttctttaatc caccagcttc agacccccaa catccgggat 120
cgtacgggac ttccgttcat cggtggcngc cntggagttt gtccttttcg tcaagtcgtc 180
tattttcgcc ccctatttcg ataa 204

<210> 2596
<211> 633
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (75)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2596
ttgcaatcag tggcattcca ggttttggga agacaggact tgcccagcat tatggccatt 60
ggcatcaacc agttntactc agatcaatat gcaattcagc cgcccatagc ggcggacatc 120
cctatggatg gctatcacct cacacgagcg caactagctc agatgccaga tccagaatac 180
gctgctgcgc gacgtggtgc ggctttcacc tttgacggcg agaagtttct gaggctagtg 240
caggcactga gggagccgat aacatcagag acgcgcatat tgtacgctcc aagcttcgac 300
catgcggtca aggatccggt tgatgacgat atacccattg ctccgacgag caggataata 360
ttcttcgagg gaaactacct cagtctgaac aaggagccgt ggagctctgc agcaaagctc 420
atggatgagc tatggttcgt tgaggtcgat ttcgagactg ctcggaagag gctggttcgg 480

cgacatgtgc aagcgggtat cgcaaaggat gaagctgagg cggacaaacg ggcgatggag 540
aatgatcttg ttaacggaca agagattgtc gataacagga tggatgtcca agagattatt 600
accagttact atgatacccg gtgggatagg tga 633

<210> 2597
<211> 264
<212> DNA
<213> A.fumigatus

<400> 2597
gatactcgac ggtatagcct aacgaaatgt ttgatagctt caacgactcc caattcacac 60
aaggtatcct ctcactccga gccgcctagc agggtcgaca accccgtcgg ccaacccacc 120
ggtctcccga tggacacctg gaagaaggct tacaaatgcc ccgtcgactc cctatggact 180
tcgggcgatg cagcggcgcg cggccaatac tccgggacgc gatcgcagga agagcgggcg 240
gattcagaga gagacaacat ttga 264

<210> 2598
<211> 567
<212> DNA
<213> A.fumigatus

<400> 2598
aaagttgtga tcaacggagc gcatctgaat gcgacaagca aagtctggga taatcgcgct 60
gccgtgctgt tcaaaatctt acgagaatta caattatact atagaattct ttgtcttgca 120
atgtcagaca ccctcccgaa cccgtccggt ctctcggcca aggtgaacaa gaagcgtaag 180
agacaagcgg aggaagcacc caaggaagat aaagccgcat cggccaaatc tgccaataat 240
aataccttgg aagcagccga gggtccttta aagaaaaaaa agaagaggaa tttcaaaaat 300
aagcagaaac aacaaaagaa aaaagatctg gaggatgatc ccaagcagca ggagcgcaaa 360
ggcggcatcg acgagtctat tggcaagatg gacggccggt tgctggctga ttactttgtc 420
cagaaggcga aaagacataa caaggagctg actgcggttg aactgggtga tctgagcgtc 480
ccaggtatgg ttatatccgc ctggctcagg ctcgagtggg tcttcaaccg gggcggaagt 540
gtccgattga cccgtctatt gggggaa 567

<210> 2599
<211> 891
<212> DNA
<213> A.fumigatus

<400> 2599
cttctatgcc ttaacagagc cactctcttg ttgcaccact ctgcttccca agcgctaaac 60
cagcaacgac tcgaaaccta cctctcctca tacggccagc ccagcctgga catcgcagag 120
catctgcgca attctccgcc tcaccattcc cattccagac cgaacggcgg cactgacact 180
ccgaaagatt tggcagcgcg ggttaagatc attgagctct tcacactaca cgttcttccc 240
cgtaatgagg aatgggacta tgccagagag tttatcaata tgagtgaagt tctggacgag 300
gaaagaaaag atgtctttct acagaccctc gagggaatca aggaagagaa ggaacaagga 360
gaactgcgcg cagcggcgct ccagcgcgag aaagaagctg agctggagag acaaacgcgt 420
gaggaagacc gtcgacgagc ggaagaagca gcagcagccg aacgattgga gcaaaagaat 480
cagcgacgca atgatagcaa ggtcgattct ggtatcgaaa agagccgacc caacggcgct 540
tcgaaagcca aagtgggaaa gcccgcggac aaaatgtcta gtagcaagtc aactccttca 600
ggtcgcactg cattttcgcc tcctgcgtcg tcgaaaaatg tcaagaaaac cgacaagccg 660
gcgagatcaa atcgagcgtt ggcaaatgtg ctgcgcaata ttatgcagta catgtcaaag 720
accgtggctg gcaatcctct gtcaattgct cgcacgctct tattcatgct aggcattatt 780
gtggcgctaa gcaggcagaa catccgcgaa aaaattcgga gaatcactgg gtcgggttgg 840
caaaaaatca agggcactgt ggggatggga gtgaaggtga gctatatctg a 891

<210> 2600

<211> 309
<212> DNA
<213> A.fumigatus

<400> 2600
agaatcaaag tatggaatct ttatatcact cttttgagtt ccattctcga attggggcct 60
gaggaaggga aaaagcaatt cggtcagaag aagtggaagt ccatctcgtc ccaggtgcgc 120
gatgggcaaa tttgggagac tgtagttcag actggctaca gagggttgga gggatctgtc 180
gatgcagagg tcgtctataa tctgtccgtt aagcctctgc ctccaccaat taactcctgc 240
actgacactg acttctatgc cttaacagag ccactctctt gttgcaccac tctgcttccc 300
aagcgctaa 309

<210> 2601
<211> 408
<212> DNA
<213> A.fumigatus

<400> 2601
tttacggaga cttcttcgcc agccgttgag gctcatgtgg cggagccacc cgttcctcag 60
actgagtcca gaagagtcac tcgcaaacca atcgaaggag actgtaatat ctgcctgtgt 120
cttttacgag aacaagacag tgatgaaaac ggcgagggat cagaagatcg cgatgatgag 180
aatgaggatg atgcggcggg cacaggttcc ggcacagcgt ccgacgagca cgacgccccc 240
gaagaacatg acgatgacga ccttgtatat tgcaaaaacc agtgcggtac gaactatcac 300
aaagcctgta ttgacgtgtg gcatgctact cagcgtacat ttgaaactcc acgtggggat 360
cctatcggcc tgtcctgccc gtactgtcga gcagcatggt cctcctga 408

<210> 2602
<211> 804
<212> DNA
<213> A.fumigatus

<400> 2602
agtcagatct cctgcaaagc catgcgctcc tgccaggcgt cggaggagca aggaataaac 60
aacaatacaa gaggcagcgc catccccgtt ccaaacaatg ccactggcct gaatgtcaag 120
aaagtacgat ttagcgaacc tcttccacaa agacagcaga ccttcactca ccatcagttg 180
tccgataatc agtctccctt catatgcaaa ataacaaatc gcaccttaag aagtacaagc 240
gacatgcagc cgaagaagct gcgcatgagc agagggttcg ccaacctgaa ggcccttcag 300
actgaagaag aggttatttc acagccagca tccgatgaca accaagacca gagcgtttct 360
aaaacaagcc aacaggaaca atctgcaaat gtgcctacga ccagaaacaa ggctggcact 420
cagagaatgg tactgcccag agatgataat cacaccagcc ggatcccagg caacaagcag 480
agaacgctga ccacgaccat tcctgctggc ttccaggtat ccgaggcaca gccccgtcag 540
tattggcttg gccgtttcat gactctcacc aacgcgttcc actacgaaga ttctttcaat 600
gaacccgata tcgccactgg atttggcatg ctgtcgagct actcccgacc tctgggtcac 660
cccgatgcga accttgcgaa ctatcgtgtc aagcgtgcct tcatggttct tgagaatgtc 720
tgcgtgacgg aggaggcgtc tgctagtctg agagagttca gagacgagta tattgcgatt 780
catggagatc gttggatgtt gtga 804

<210> 2603
<211> 978
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (205),(206),(650)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2603
ctcatttcgg ttcattcatt cctattaagg gatgaaagct caatccgtaa ctcgctcaga 60
gtaaaggttc gcaattctca gatacacgaa gcatgggatt ctcatcgcca agtctcaatg 120
cgtataccta ccaagtcatc ctcatgtggc tctcaagatt caaacgagac cacagccagc 180
agtgagaatt ttttagaaag atcannatat cgatcgccgt ttgacagcaa gagtgtccct 240
ttttcttcgc catcaagcag tcaaacgtct tcgagatcca ccagtttcac tagctcaact 300
tcgacctcat cgtccgaaca caagtattcg aagatcccag tccctactgc tcatccagtc 360
aatggtattc actctcgcga aacgtatcaa aaggaaggaa agcggagttt gctgtcatca 420
ctgaacaagc gttacatcaa tctcagacgg aacgcgagca acgatgaaaa caagtccatc 480
tcaaatattg gaacgcaaga aacagaagat ggagatctcg acattcctac tcatcctcgg 540
ctggtcaaaa tagctcaaaa cgttcgatat gtccgaccta ccgaacctgt tcgagtttac 600
cgaatcagta gacctgtcca ggcagtgcaa gttaaccaac ctacgctacn tactcaacct 660
atccagccag tggtgcctat tgagcttgcc aaatctgctg agaatgtcca accgactgcc 720
gaaagtgctt cagtctgtga aaaatgtttg gaacatcaat ccaagcaaac cgagatgatc 780
gagcagcgca ctgaggttgt gttggactca tcatcgaaga aatttcgttc gtcaatcaca 840
cgaactactt cctcttcatc ctcaaaggct gcattgatcc atttgacttc tccacggagt 900
tctataccgg ttcctgctaa agtcagatct cctgcaaagc catgcgctcc tgccaggcgt 960
cggaggagca aggaataa 978

<210> 2604
<211> 183
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (79)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2604
aggtgtcggg atacactaaa ccagatgtct atctgttggg aaaggcgatt aatcggagga 60
gttattggtg tgaagggtng actgcaaact gctgtacttt ggacgacacc ggagtttgat 120
atctacatgg gttttctaac aatcattggc agcagcctgt ctgatgcgtt aaaatttaat 180
ata 183

<210> 2605
<211> 345
<212> DNA
<213> A.fumigatus

<400> 2605
cctgatccag taggagcgga tatagtccag catggggtgg gccctgtcga tagttcagtc 60
tccttgttca tcaacaatgt gcttcgagca ttacttacac ctcgctgttc caattctgac 120
ggacacttag catttcatgg ctatttggcg ggggtgatct acacagcctt tccagaccct 180
gctgcgacgg catatcgctc ggtaggtgct ccaatgcaaa tttttatccc aatccgcggc 240
tacttcccta aatcccttaa tgtcatgctg acaagcatag tctattctat tagtccaagg 300
cggagcgtgt atgtgattgc catttttcca gtttctgcaa gatga 345

<210> 2606
<211> 576
<212> DNA
<213> A.fumigatus

<400> 2606
tctttgacgc ttaattgggg agtgcgagtg gcatcacaag aggaagatct gttcaatgag 60

attacgcacg tggaagagga gatcagcaaa tttaggagca ccacgggcaa tttgcaggac 120
tacattccct tcttgcggct gaaccccttc agcaccaact cgaggaaagc aaaagagatg 180
agagaccggc gtgacagata tcttaatgca cttaaccggg acctggatga ccggatggag 240
aaaggcattc acaagccttg cattcaggcc aacgttattc tcgacaagga agcaaaattg 300
aataaagaag aactcatctc tatcagcttg accatgctct ccggaggcct tgacactatt 360
accacactcg tggcttggag tttttgtctc ctgtctcgtc gtcctgatat ccaggagaag 420
gcggcacaag cgatccagga catgtttagc caggatgagc ccttgtgcga tgcccaagat 480
gaccagaagt gcgcatacgt cgctgcactg gtgagggaat gcctgaggtc cgagatccct 540
tgcttaacta accttcgctt ttctcgtccg gcctga 576

<210> 2607
<211> 318
<212> DNA
<213> A.fumigatus

<400> 2607
tttctattct ttgtttttc agccttggct gttgacgctg acgagtacgc actagacccc 60
gaagtttgga acgatcccga ggaattcaga ccggagagat ggtttgaaca accagatgca 120
cccatgctga cctatggcat cggctatcgc atgtgcgccg gctcgctact cgctaaccgg 180
gaattgtacc tggtcttcat ccgcactcta aacagttttc atattgaacc acatgacgac 240
gttgactggc accccattaa tgggaactcg gaccccacaa gtctggttgc gattcgtctt 300
caccacgggg ctggaagg 318

<210> 2608
<211> 906
<212> DNA
<213> A.fumigatus

<400> 2608
ttgggttggc caaccattgg cccttcctcc cccgggaaac ctttgaaatt cttcttgttg 60
gcatcggatt ctaatcggac agcgttgcgc aaccggctgg ccggcgtcta tggcgccagt 120
atggcgattc ccgacctcac tcgcgtgcag gcgctgctga tgctcgccct ccacgaatgg 180
ggcatgtgcc ggggcaagag cgcctggctc tatgtcggca tggcgatccg gctgtcgcag 240
gccatgggac tgccgtttga actggagaat gaggtctcct ctcgcgatga tccccgctcg 300
cctgccttca aaaccgagac agagctcttt ggcgtgcgcc gcggtccgga acccaaagag 360
cagacgtccg acgatgtgat cgcccaggag acgaagcgac gaacttttg ggcctgcttt 420
atcctcgacc gctgcctcag cagcggcaaa tatcgtcccc ggatgatccg cgtcaaggaa 480
cttggtatcc aattgcccag cgacaacgct ttcgctttcg gagagcgcgt gcgaacggcg 540
cggctgaacg agccatccgc ccgtcgcccg ccgagcttcg gctcacaagg gatgcaaatc 600
cccagcattc gccagagtat cgggggcttc agcgatgaca aactgcccaa caatgtccct 660
ccggacaaca agccgtggtc tccgatctcc cggcgaaagg actcgagcga ggatgagatc 720
gaccgatggg agattggggc ggaggagtcg gtgttgagcc gggtgattcg catcattcgg 780
atctggggca gtatcgccaa gtggtcgtgt gcgggtggac gaaggtatgc atgcatccac 840
catcctcccg tgagtaaccc ccgaaaacta aacattgaca gaaccgaaca agttcctccc 900
tgtctt 906

<210> 2609
<211> 1527
<212> DNA
<213> A.fumigatus

<400> 2609
gagcttcagt caagcttgaa agattgggat agtgagccaa tcaagatgga aactactcct 60
catgccaaaa atccctcagt catcgactgc tacgatggta tcacgccaac tagcgtacca 120
gagcaatgga attatcaaat cctttattac gacccaacgc agccatcgag tccgcctgga 180
agctacctct caaccaaaga ctcaccagat tgttcagttg tcctagtgga caacagcacc 240

gcaactgacg agtggagagg gaagttctcc ttccggatga gtcgtcagcc accatacgca 300
ttcttacgtg gccatgcagt ccaggcgagt caagagggga tagtgactga acaatccgga 360
agttcgggac gtgctctcgc ctgttactct gaggactact tgttaagctt gcccccttaat 420
gcaagttttg ttgtcggagt ctacccccgc gaagacgggg cttcattgcc tgatggaaaa 480
gtcgaaattg tttttcaatc tctcgctcag ggcaggtatt tcatgactaa gagtgttgct 540
ctcgctccct ttgtcgcact gactcggcgc gtttggcaac tacggcgaag ggactggctt 600
ggggatgcct ccaagacgtg tattgtggat gatttgcata gccctgtttc cggatacgca 660
atggccaaaa tgaacggcac aattggctac tacttcctca cccccacggg tattatgcct 720
tttgctaacg gaagactggg tccagatcat tccacatggc aagatgaggt cgcgatggca 780
ggaaatgcta acggtctctt ctccctaacc aaggcgggag atgtttatcc atattccaag 840
tccctatcag agcgcgagcc ttgcaatatt tcgccggacc ataagttctc ggatgtcact 900
tgcacaatta cggattcttt tgtctatgca atcaagaccg accgcactgt gtggagatat 960
gatccaactc agcagcccgg cacttgggag ccagtttgtc aaacaagcga tttcaaagca 1020
gcagttctgg tggcgtcaga tgctgccgtc tttgccatcg cacatccgac ctgtccaccg 1080
cgatatggtc catctggggc tgtttttagc ctcttagagg ggcctagtcc tgtgctcatt 1140
ggcagtgatc agttacacat caatcagtta aagattgcca gcaatttttct ggttggattg 1200
gcatcaggcg acaacaagat gtatgtctgg aatggggacc ctggctcctg gaccgatctt 1260
tccaccgcgc ctctccggcc atggggcgga gtccgagacg tggttgacgg cggcagtcta 1320
ggaatagttg ctttgtcagg ggaccagcgc gagattgttc agttagatcg gcatgagcgg 1380
acgtggaatt ccttgggtgt cctgactgac gaatggcgcc tacatgaggg tacattgact 1440
ctgtgcgcac tggtcgacga tggtccgata tttggcattt ggaatggacg cgcgaatttc 1500
atttacccgc ctggaattgt gccataa 1527

<210> 2610
<211> 222
<212> DNA
<213> A.fumigatus

<400> 2610
acaaatggca gcggcctaca gaccaatggc ttttacaacg tgcttggccc tgattatatc 60
ggagaggctt tccgtattgc ccgaacagtg tgcccgggtg ccaaactgtt tatcaacgag 120
aatctcgtcc aatcacgtcc gggcaaacgt caagagctct atgatttcgt ctttaggttt 180
gtagcgaaag actcgtcttc accacgggtg gaagacagcg tc 222

<210> 2611
<211> 690
<212> DNA
<213> A.fumigatus

<400> 2611
agaaacgcag acatgtcgca cagcagaacc atgggggcct tttgtgccgc aacactcatc 60
accgcgtttc tcgccgctgc cgaaggaaca aacgccttca ccaacacagg aactagcccg 120
ctgagaaagg aagcagcaag caagggtatt ctcatcggat ccggagccat caatcagacc 180
tatctcgata atcctcagtt tgcaaccatc ctcgccgagc agttccagag tctttccccc 240
gagaatgaga tgaagtggcc gttcatccac ccgacgccag ggcactacaa ttgggacacg 300
atcgaccgcc ttgttggctt tgcggagaac aatgacatgg tggtcaaggg acatggactc 360
atctcgagct gctgcaaccc cgactacctg ctcaacatca ccaaccccaa gctgtttcgc 420
gccgccatgg tcgatcattt cgggcgatca tgcaccgata cactggcaag gttgatcgat 480
gggacgttgt caccgaagca ctctagacaa atggcagcgg cctacagacc aatggctttt 540
acaacgtgct tggccctgat tatatcggag aggctttccg tattgcccga acagtgtgcc 600
cgggtgccaa actgtttatc aacgagaatc tcgtccaatc acgtccgggc aaacgtcaag 660
agctctatga tttcgtcttt aggtttgtag 690

<210> 2612
<211> 207
<212> DNA

<213> A.fumigatus

<400> 2612
cccttccagc cccgtggtga agactattcc atgtctggag acgatctaag ccatcaagct 60
tggacagaaa gacaacatat aagtgagagg ctttcaacat acggtgacca gttcgaagcc 120
ctggaattca ctacaatgac tgagacactt gaatggcttc cgaatttcag tggtcccaac 180
acagtacgaa acatcaacga tacgtga 207

<210> 2613
<211> 495
<212> DNA
<213> A.fumigatus

<400> 2613
aatatcatgc caaacttcca agcccactca ctcacacgat caacatatag ctggttaccg 60
ctcctcttca tcccaaccaa cgcctccccc ctcttcatca tttcctttgt cacactcaca 120
tacatcctcc accgaccatg catctactgc tccgcgctgc tcctcatcct cttcatctcc 180
tcctgccact gggctgaccg ctgcttcttc gacttccgcg gcgactggtt ttcgccgcgc 240
tacgcaacct cgagccccta cgatgctgtc tcggccaata cctccctggc cagttatgtg 300
gcagaaaccg tcaatacgac caccaaggcg ctggcgggcg cggcggttga ggaggcgcag 360
cggcgacttg cgctcaacgg atcaagtgaa ctgggacagc aggagtggac cggtgttgga 420
ctcgaatggt tgcggagttt gctgggacga cgggactgga ctcttccctg tgtagatgtc 480
aaggttcggc tttga 495

<210> 2614
<211> 492
<212> DNA
<213> A.fumigatus

<400> 2614
gccgccgcac catctgaaat atcatgccaa acttccaagc ccactcactc acacgatcaa 60
catatagctg gttaccgctc ctcttcatcc caaccaacgc ctccccccctc ttcatcattt 120
cctttgtcac actcacatac atcctccacc gaccatgcat ctactgctcc gcgctgctcc 180
tcatcctctt catctcctcc tgccactggg ctgaccgctg cttcttcgac ttccgcggcg 240
actggttttc gccgcgctac gcaacctcga gcccctacga tgctgtctcg gccaatacct 300
ccctggccag ttatgtggca gaaaccgtca atacgaccac caaggcgctg gcgggcgcgg 360
cggttgagga ggcgcagcgg cgacttgcgc tcaacggatc aagtgaactg ggacagcagg 420
agtggaccgg tgttggactc gaatggttgc ggagtttgct gggacgacgg gactggactc 480
ttccctgtgt ag 492

<210> 2615
<211> 213
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (114)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2615
attctgtaca gcgatcataa gaacgaaatc acatccagaa acgacgacaa cttgcatgcg 60
atagcagccg acaatctagt ccaggtcaaa ataatgcaag cccaatccat gctntatgaa 120
ccctccggtg catgcaaaag aatgtccgct atttcagcct catatagtta tattgatctt 180
tggatctggt gggaaaagaa agaccgggaa taa 213

<210> 2616
<211> 234
<212> DNA
<213> A.fumigatus

<400> 2616
gttccagttt acgagttcaa agtcgatggc gaaagtgtta tgcgccgacg aggcgatgat 60
tggatcaatg ctacacatat tcttaaagta gctggttttg acaagccagc gagaacccgg 120
attctcgagc gtgaagtcca gaaagggact catgagaagg ttcagggtgg ttatggcaaa 180
taccagggta ggatattcta cacggtcaag tgtcgtcgtt tgccattcgg ctaa 234

<210> 2617
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2617
gatattctac acggtcaagt gtcgtcgttt gccattcggc taacattgtc gataggaaca 60
tggatcccac ttcacgaggg tcgtttactc gccgagcgca ataacatcat tgacaagcta 120
aggcctattt tcgactatgt agcaggggat cacacccctc cgccggcacc aaaacatact 180
tccgccgcct catcgaga 198

<210> 2618
<211> 465
<212> DNA
<213> A.fumigatus

<400> 2618
aaaccaacac atgatgccga tttgatctgg attcgatgcc gtcccacaat tgcaacccag 60
tcatggtcca gccgtctaca aagctcccgc ccgattgtct gtggttatgc atgcaagaaa 120
attgagaatt acctgctcgc cgcggatact gtacacgaag ataataagct caagggcgtg 180
gagaaggcac tggaggaaga cgtgcccgag aagagggatt tctacaccaa tatcgtcgtg 240
ctcccaaagc cagacggcat gcatgcgctg aaggtcgcgg aagaagatct cgaaatcgcc 300
agcgttgagt tcccgtggca gccagcgagg gaaattgacc cttatatagg tgagaactcc 360
gtgctaagga cccttatgtc tagttcagga gaaaaagatt ggctgaaatt ccgccaggca 420
ggcagtaccc gcgcttggag agtgttgaga agggagatga gttga 465

<210> 2619
<211> 972
<212> DNA
<213> A.fumigatus

<400> 2619
ggagggactc actttccatc cccgcgggta agacatgggc agatttgctt tgaggaacgg 60
actcctgcat ggaatatatc tctctacggc atgcccacag gagacgaatt tatccactat 120
ctggaaaagt ggattgaagc acccacggat gcatcttgcc cacttggcgg caaagcccca 180
tatactaacg cgcttgtcat cgattcaagg cgccttatga ccaatgccag ccatttcaga 240
accagccata cccctctgag gagtcaggat gactatatca aggcgtacat ctcagcccgt 300
cgcatcgcgg atggaatctc caaagaacac ggcatagatg tattcccttа ttccaaacca 360
tatatctact tcgaccagta tgtctcaatc gtgcagctca caggcacttt actcggttgt 420
gctgttgcca ttatctttgt catcacgtca atcatcttag gctctgtcgc caccggtgcg 480
gtagtaactg ctacggtcgt gatgatcgtt gtggatatta ttggctccat ggccattgct 540
ggggtgtcac taaatgccgt ttctttggtt aacctggtta tttgcgtcgg catcggtgtc 600
gagttctgcg cccatatcgc tcgagcgttc atgttccctt cacgcacaat aatgggcaag 660
actcccacca agttccgggg caaagatgca agagcctgga ctgccttggt caatgtgggt 720
ggcagtgtct tcagtggcat cactatcacc aaattactcg gaatttgtgt gctggcattc 780

acccgcagca agatcttcga aatctactat ttccgtgtct ggctagcatt ggtcatcttt 840
gccgctaccc atgcccttat cttcctgcct gtcctgctca gttattttgg tggcgaaggt 900
aggtttattc tggttgtgtc ttttgaatct ttctctttct ccccaacttc cgggctgtct 960
aacacaatat ag 972

<210> 2620
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2620
gttatgccga tcctggatcc gacggtggtt tggaagaaac ccttgcctcc agaggttatc 60
gcgccctgct tgttgatgaa gactacgact ctgaagaatt ctagcgatgc tctacatgat 120
cccatggcca atgttttcgc ttgttttacg tatgaacgat gctggcttat ctatggtttt 180
gtactatgca cattttgctc ttttatttag 210

<210> 2621
<211> 417
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (198),(249)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2621
tccccgaaga tcgtcttcga aggcaccacc acctttggct ataaagagtg gagcggcccc 60
ttgatccgct tcggcggcaa ggacatcacc atcaagcaga actccggcgc tgtgattgac 120
ggagaaagct cccgctggtg ggacggcgag ggcaccaatg gcggcaagac caagcccaag 180
ttcatgtacg cgcacagnct cgaggactcg accatcaccg ggctatccat caagaacaca 240
cctgtgcang ccattaatgt tcaggcgacc aacctctacc tgatcgacat cacatcgata 300
acttcgacgg ggatgacaac ggcgggcaca acactgacgg gtttgacaat aacgaaagta 360
ccggggtgga tattcggcgg gcttacgtca agaaccagaa gactgcattg gcattaa 417

<210> 2622
<211> 354
<212> DNA
<213> A.fumigatus

<400> 2622
caagctgtaa tatccaacct gtccttcctt tctttcttac ctgttgagag atttatcctc 60
actgaccaaa actgttctgt tgatcggaac tctcgttcct tcattccctc attcatcatg 120
cgttctgtta agctttttgg cctggctgcg ctgggctccc tcggcgctgc tgcccctgct 180
ccgtctcgcg tgtcggatct gaccaagagg tcttcaactt gtactttcac cgcagcctcc 240
caggctaccg agagcgcttc tggttgctcc gagattgtcc tggacaacat cgaggttcct 300
gccggtgaga cactggatct ctcggatgtt gatgatggaa ccaccgtacg ttaa 354

<210> 2623
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2623
ttgcgatact ttcaggccgg cgttgaacaa tccgagatgc gcccgacata cttgtctcct 60
caggcccatg tgaagctctc ttcgcccggt gcatttgacg gcctacgtat tcacacagat 120

gagatcaacg aagtgatcaa gcgaatcact ccccgaagcc tgacaatcgc tgtggtacgc 180
agccccttgt atgatttgcc caaatga 207

<210> 2624
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2624
cccatttgcc agatcatgga ctcgatggac tggttcgatc ccgaaggcac agaagcatcg 60
atccaagccc agaaactcaa ccacgccctg aaaatggacg gccgcattct cctccgctct 120
gccagcatcg agccttggta tatcaagcag ttcgaagaga atgggttcac agcccgccgt 180
gtcggcgccc gcttccccgg ctcttgcatc gatcggtaa 219

<210> 2625
<211> 492
<212> DNA
<213> A.fumigatus

<400> 2625
ttatcttctg cggcagcccc aggagcgggc aaatcgacat tttactggaa tcacctccag 60
ccgctgggtt acgagtgtgt caaccaggac aatctcaaga cggtacgatt ggtgtacact 120
ctcggtgaac atgaaaacgg tacactgaaa ctggacacca acagagacaa aaatgcatca 180
aagtcgccaa ggagtttctc accgccggtg cctccgtcgt cgtcggtagg ttgcatccgt 240
tttcagggct cagcaagcac ccagacacac gcagctgacg ccatgacaga caacacaaac 300
gccgacccca acacccgcgc cgaatgggta cgcgtcgcaa aggaatccaa cgtccccatc 360
cgatgtgtct acttcaccag ttcgccggaa ctatgcaagc acaacaacgc cgtccgcgcc 420
gcgaatcgat ctttggtacc tctcttttcg tctcaaatgc tggaaacgaa actaacagta 480
tatgcgctgt ag 492

<210> 2626
<211> 282
<212> DNA
<213> A.fumigatus

<400> 2626
catgagagga tagcccgaca aaaagttttt ggtgtcagga ttgggctttc cacgatgaga 60
agcaaaaccg tgtgcaacat cgtgcaacca ttccgttccc tgtaccacgc aaagtggatg 120
tctaacatga gtcttgatgt cgttgcgtct gagaagacgt gcatccgtct ctaccaaaaa 180
gaaaaggaaa agagagagga aaagaaaaag agaagcatga atgatacggt ctgccgtgta 240
tatgtagata tgtacccgat atacccagca tttcaagaat ga 282

<210> 2627
<211> 486
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (457)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2627
accggtcgtt tgtgtactat cctcaatgta caactctcag gacctgcaaa atctcgctat 60
cattggctga acatattcat aggccctgag gatgaactgt tactgaagaa ggacgaattg 120
tcaattctca tcaggagagt acttcgggaa tacccgatgc tttcttactt ccaggggtac 180

catgatatcg cgcaagtact acttctggta cttggtgaaa aggaggcagc cccagctgtg 240
accaatatct ccttgttccg aattagggac tatatgctgc cgtctctctc ccctgcgctg 300
aagcatttgc agcttatccc ggcgattatc gagaaagctg atccggcctt gcgggagcac 360
ctcggaggca taaaaccatt ctttgccctt gcagcaacac tcacattgta tgcccatgat 420
atacaggagt acagcgacat tgcacggctg tttgatngta ttcgccacgg gccgaagtac 480
cgcgta 486

<210> 2628
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2628
atatggatgg accagctaaa cctcacgcac ttcgagggcg ctgcgcattc agcgtatctg 60
gcacagtcca gagtgcccaa tataatcgcc tgcaatgtga tcctgctgtc gatcgtcagt 120
atagccgttg ctatgcgact gtatgtgcgc tatcgctatt tcatgattcg ttctgatgac 180
agtaagtcat accactcgca atcactgggt caggactga 219

<210> 2629
<211> 279
<212> DNA
<213> A.fumigatus

<400> 2629
tcatggtcct gcggcccggc tcggttgaaa acaggtcaac tggtggaagc tacaaaacat 60
ttggcaggat ggctcattcg aagtgccatt ggaacaggat cgatggccga tgtgcctcag 120
aatcttctac agcagattaa ggatttcgag gagatgttta ctgtggacaa agccaagctc 180
aagcaggtgg ttgaccactt cgtcaaggag ctcgacaagg gtaagccttt gtctttaacc 240
tatttctgga tcgctccggt agccagcaga gagatataa 279

<210> 2630
<211> 528
<212> DNA
<213> A.fumigatus

<400> 2630
ccgcatccgt ctggagaggc ctgtccgctg accactagga ctacgcaaca gccgatgaac 60
gttacctggg tgatgggctt ccccgatgga gacgagcagg ggaccttcct tgccctggat 120
atgggtggca ctaacctccg cgtctgtgag attaccttga cggaagagaa gggaggcttc 180
gatatctgcc agtccaagta ccgcatgccg gaagaactga agaccggaac cgccgaggag 240
ctgtgggaat acatcgccga ctgcatacag caattcattg agttccacca cggagaggaa 300
ggattgacat cattgccccc gggtttcacc ttctcctacc cggctacaca agagtacatt 360
gatcatggta ttcttcagcg ctggactaag ggcttcgaca ttgatggtgt cgagggacag 420
gatgtcgtcc ctccccttga ggaaacgctt aagagaaagg tatacccgct cttagttgtt 480
gttgttgcca atctacgcac atctaacaat gtcctcaccg ccggttga 528

<210> 2631
<211> 213
<212> DNA
<213> A.fumigatus

<400> 2631
cccatgggtc tatccgtgcg ttcatcgatc aacatccctt acgcccacta cgccatgatc 60
tatctcgaca acatgggcag actgaaggtg acggaatctc cgtctatcca ggagcagaat 120
ggaactgtct tcacaccaga agtccgtgaa agatttttgg aaatccttgg tgccaagatc 180
gggtaccagc gccccatggt tcgaagtatg taa 213

<210> 2632
<211> 288
<212> DNA
<213> A.fumigatus

<400> 2632
cttactgatt catttttcca tggtggtagg gtggaagctc gtgccgatat tctacgcatt 60
cactcacggt cgatgaacct gacgcgaggc atcaacttga cgaagattgc agagaagatg 120
aatggatgct caggagcaga actgaagggt gtgtgcaccg aggcaggcat gtacgcgctt 180
cgggaacgac gagtgcacgt cacgcaggaa gattttgacc tagccactgc caagattctc 240
aacaaacacg atgacaagga ggttgctgtc tcgaaactgt tcaagtag 288

<210> 2633
<211> 240
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (11),(16),(17),(29),(31),(37),(47),(48),(49),(51),(53)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2633
ttgcggcggg nacccnnccc ggccccccnc natttcnacg gaatccnnnc nanatatacg 60
cattgcgcgg atccttcgag ccccgtggtg aagattgcgt tgctttcaga ctcttataaa 120
ttagaaaaaa tgttgccatc gtcggttgac ccgctcgttt cgcttatgat ggtcgagaag 180
gtgcctgaca gcacatacga tatgatcgga ggccttgatc aacaaatcaa ggagatctag 240

<210> 2634
<211> 480
<212> DNA
<213> A.fumigatus

<400> 2634
gaagtcattg agcttggtct caagcatcca gaactgttcg agtctcttgg tatcgcacag 60
cccaaaggtg ttcttcttta cgggccgccc ggaaccggta aaacactgct cgcccgagcg 120
gtagcccatc acacagattg ccgattcatc agggtcagcg gctcggaact agtccagaaa 180
tacattggtg agggtagtcg catggtgcgt gagctgttcg tcatggctcg agaacatgca 240
ccaagcatta tcttcatgga cgagattgac agtatcggtt ctagccgtat agactcggct 300
ggctctggag attcagaggt gcagcgtaca atgttggagc tgctcaatca gctggatgag 360
tttgagccca caaaaaacat caaaatcatc atgggtacga accgacttga tatcctggat 420
cccggtttgt tgcggcccgg aaggattgac cggaagatcg agtttccacc gccatcgtaa 480

<210> 2635
<211> 336
<212> DNA
<213> A.fumigatus

<400> 2635
tattaccaag cagctcttcg ctgtttcccg ggtaaattcg gtcctatgaa tcgatatcta 60
gccagagtgg ttttcgctga tacgttgttg aaggaaaccg cccaacttga ggctcaggct 120
tatgagctcg aacaacgcac cgctctggcc gccgaggcca agtccgtcct tgactcgtgg 180
gttcgctacg aaagccaggt caagcagcgc cagcagcgtg agctcgccga gtccgtcatt 240
gccaagattc agaaggagct tgagaacccc aaggtcctcc agcagatcct tcagcagagc 300
gttgctgatg ttgagcgtaa gttccagtcg ccctga 336

<210> 2636
<211> 474
<212> DNA
<213> A.fumigatus

<400> 2636
ccccaggtag gtgttacccg gctccggccg actcttcccg tgcgcagtgt cggtgccaac 60
ctgactgcct ctcgttcggc ctccaatgtc cctgccgaag accccaagaa gaaggctcag 120
tcgatcatcg attctcttcc cggcagttcc cttgtatcta agaccgctat cctgtccgct 180
gccgccggtc tttccgtcgc cgccatcagc aacgagcttt atgttatgaa cgaggaaacc 240
gttgccgcct tttgccttct gagtgtcttc actgccgttg ccaagtacgg tggtcctgtt 300
tacagtgagt gggctcaggg tcaggttcag aagcacaagg acatcctgaa tgctgcccgt 360
gccgaccaca ccaacgctgt caaggcccgc atggacaacg tcaaggagct gtccaacgtt 420
gttgatatta ccaagcagct cttcgctgtt tcccgggtaa attcggtcct atga 474

<210> 2637
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2637
gcaatatacc caaataggaa aaatgcccaa ctactccaac tcatcccgaa actgcaaaac 60
gcccaaccac tgaccacatc ctccaagtcc aacaattttg ataacccgaa atgtatctac 120
acctctgctt gcgctacgtt tcatgctgag caggaatccg tggcaagcac atccacaacc 180
ccataa 186

<210> 2638
<211> 486
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1),(327)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2638
ngaagcgctt ttccttccag cccggcggtt aagaacaagt tggaacaaca ctactccctc 60
acctacacca tcgtctccct cgtcttcctc tccccgctag gcggatacgc cctcgccgcc 120
ctaacaaaca accacatcca cctgcgcttc ggccggcgcg gcgtggccat catcgcccca 180
tcgtgccacg tcatctcgta catcatcaac tgcctccacc cgccgtaccc cgttctcgtg 240
gtgagtttca tcttcgccgg gttcggcaac gggcttgcgg attcggggtg gaatgcctgg 300
atcggcaaca tggcggatgc gaaccangtg ctgggcctgc tgcatgggtt ctacggggcc 360
ggggcggtgc ttgcgccgtt ggtggctacg gcgctggtta cgaaggcgga ggtgggatgg 420
tggtatttct attacatcat ggtttgtcct tttcatttcc ccagtgtggg agtttcatgt 480
tgctga 486

<210> 2639
<211> 759
<212> DNA
<213> A.fumigatus

<400> 2639
attggctgcg cggtcatcga gcttaccacc tcggtctact gcttctggga cgatactggg 60
gcagtcttcc ggcgggacac gcagcattcg actggtggca ctggcagcgg cgggggaagc 120

ctgcgcaagg cgctgttcac gaaacacgcg gggaggatta cctggttgtg tgcggtcttc 180
ctgctcctgt atgtcggggt ggaggttgcg ctgggcgggt ggatcgtgac cttcatgatg 240
cgcgtgcggc acggcgagcc gtttgcgagt gggatggcgg cgaccgggtt ctggttgggg 300
atcacagtgg gccgggtagt cctggggttt gtgactccca ggctgggtga gaaattagcc 360
atttcggttg cgtcttccct tttcatattt cttggtattt catgcatgct aacggttgca 420
gatctatctc atctcctcca tcgccttggg cctcatcctc tggctcgttc cgaacttgta 480
cgtttcgacc gtggccgtct cgctgcaggg gttcttcctc gggccgctgt tccctgccgt 540
cgtggtcgtg gcgaccaagt tgctgccgcg tgggttgcac gtcaccgcga ttggctttgc 600
ggcggccttt ggagcgggcg gtggctcggt gctgccgttt gctgttggag ccattgcgca 660
ggcaaagggt gtcaaggtgt tgcagccgtt tgccattggc ttgcttgggg cgattatggg 720
gttgtggatg tgcttgccac ggattcctgc tcagcatga 759

<210> 2640
<211> 354
<212> DNA
<213> A.fumigatus

<400> 2640
cggttgcaga tctatctcat ctcctccatc gccttgggcc tcatcctctg gctcgttccg 60
aacttgtacg tttcgaccgt ggccgtctcg ctgcaggggt tcttcctcgg gccgctgttc 120
cctgccgtcg tggtcgtggc gaccaagttg ctgccgcgtg ggttgcacgt caccgcgatt 180
ggctttgcgg cggcctttgg agcgggcggt ggctcggtgc tgccgtttgc tgttggagcc 240
attgcgcagg caaagggtgt caaggtgttg cagccgtttg ccattggctt gcttggggcg 300
attatggggt tgtggatgtg cttgccacgg attcctgctc agcatgaaac gtag 354

<210> 2641
<211> 228
<212> DNA
<213> A.fumigatus

<400> 2641
attacagaag gtaaagaatg gaaaatagct ttcagaataa agtttagata ttttaaatac 60
ctagttatac tatttagatt aaccaacaca ccagtattat ttaaaaggtt tattaagaaa 120
gtattatata aggttctgca ctgctttgta gtagtctact tagataatat cttaatcttt 180
ttagaaaata aaaataaata tatagaacat attaaggagg ttctataa 228

<210> 2642
<211> 237
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (150)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2642
ctaatgaaga ctaaggatga aagacatcct cacgctgatc tacctcgctg ccgagcgcag 60
aatcatcctg aacctaaagg atttctcagg tcgcaaattc gggctacaga cagtggttac 120
ctcaccaggc aaatcgacaa agataagcan cgcttcgtgg gccaggtgca gcccgtcgaa 180
gcctcgtata catacggcaa cccgatccgg gagaaagtcg tcaacatgcc ccgctga 237

<210> 2643
<211> 486
<212> DNA
<213> A.fumigatus

<400> 2643
gctggcatgt acccgccaat gggtgctcct cccatgggtt tatacggtgc tcctcagcct 60
atgaaccagt tcactgaccc taacaacaca actgtcttcg ttggtggact ctctggttat 120
gtcactgagg atgagctccg ttctttatta cagggattcg gcgagatcac ttacgtcaag 180
atccctcctg gaaagggttg cggtttcgtt cagttcgttc agcgccacgc cgcggagatg 240
gccatcaacc agatgcaggg ataccccatc ggtaactccc gtgtgcgtct cagctggggt 300
cgatctcaga acaactccgg ccccgctggc agcccttacc gccctgcccc tccccccgcct 360
ccgatgtatc cctctatggg catgccccca gcacaccagt acggtggttt cgcgcctatg 420
aaggttggta gtctcaataa tacttctgaa gcccctcggt catctgatga agctcagttt 480
gattaa 486

<210> 2644
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2644
atccaattaa tggctggagc cctggaagtc caacctacat acaataaacc gacaccaatc 60
ccacatcacg atgctggtac cgcccttacc aacgactgca gcctacccaa catcatggga 120
ttcgaaaccg acctggaaag cacgccgtgc ccaaagaaga atctaccgaa aaccgagagt 180
tga 183

<210> 2645
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2645
tgcaatgatt gtgaagattc ttcttcgctc cggaaatctg aaaaagattg gttcaatgtg 60
actttagcta atttggctgg tatgcaatcc agggcatccg gaacagattc ttcggtggct 120
ttctatagca actttaatgg gctgccatgt tccaagaccg ctcgcggcgc atcaactctc 180
ggttttcggt ag 192

<210> 2646
<211> 261
<212> DNA
<213> A.fumigatus

<400> 2646
ctctgctcaa gcatctccat ctccgccgcc tccatcacct cccccaaaac ccgactccgc 60
gactgcctca acacatttga ggaacccgtc tggacccagg ctgggacgac cagggccacc 120
acctcgcatc gatccatcat tagcgagtat gttgtgatgc gcatcgagct cgtcctttcc 180
tatcgatgga cgcggactaa tgtgattgga tctactagat cgaccgtact tgcaccccaa 240
cgaagatctg tcgaagagtg a 261

<210> 2647
<211> 495
<212> DNA
<213> A.fumigatus

<400> 2647
aaacgatact gcgctgcggc ctttcaatcc caccttcaca cccatctcta tccacacagt 60
acgattagca ttcacgtctc agtcctgtcg gctgatgggt ctctgctcgc cgcagcggtc 120
aatgcatgta ccctagccct tgttgacgct ggtattccca tgccaggcct gctgtctgcc 180
tgtacctctg gcatgagcgg cagcgcctct acgccacgtg atcctcggaa tgacttcctg 240

gatccccttt tagatctatc actgccagaa gagcaagagc ttccattcct gacggttggg 300
acaacaactg ctattcccgt tggagaggat gccatggacg acgacgacga agatatgaag 360
gtctctatga tggtgatgga ctcgaaagtc cattgcactt atctcgagac aatgctcgcc 420
gtcggtattg acggatgcaa gcagattcgg gagatcttgg aaggagtcat caaggggaca 480
aaccgaggag tatga 495

<210> 2648
<211> 201
<212> DNA
<213> A.fumigatus

<400> 2648
ttttccagcc ggctcgtcga taaaatgtac ggagagccaa ttgagcctcc taacgaagtt 60
tattatatcg gctcagtaaa tcaatttgac aaatcatgta acagggatgg ttctttctgt 120
attgttgact ctgctgcctt catcatgtcc tgcagcacct gcaaagcagc atcctcctgt 180
cctataggca cgaagatgtg a 201

<210> 2649
<211> 477
<212> DNA
<213> A.fumigatus

<400> 2649
ttggccatgt ctttgccaac gaaaggagaa caaaacctcc ccaccctcct agcgtcgatg 60
cgacctacag tacacctaga gacgtttgtc tttctcacca caacacagcc aattgaaaat 120
cttccccttc agtctctgaa accagagatg ctatttcaag aagacgaggg attgagcatc 180
atcaccacga aagatctgcc cgagtcacat ggattgctcg agtatacctt tccatgcaag 240
aagatctcat tgacggtgca ttccagtctg gaggccgtag gactaattgc tgcgatctcg 300
tcgaagctcg ctagtcatgg aattagcacc aatgttgtca gtgggtattt ccacgatcac 360
atcttcgtgc ctataggaca ggaggatgct gctttgcagg tgctgcagga catgatgaag 420
gcagcagagt caacaataca gaaagaacca tccctgttac atgatttgtc aaattga 477

<210> 2650
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2650
aaggcagttg agaatgagat gtcaacattg ccctcatttc tgacgcgact aggaaagacc 60
aagcgctatg gtgtcgtttc ctcgctggac gccaaggaag tcgtacgtca actgactggt 120
gtcctgaaca ttcaagaggc tgacaagaat gtgtcacgct ttgaattgag gggacggacg 180
gtctttcggc aggcatag 198

<210> 2651
<211> 210
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (23),(27),(28),(38),(40),(101)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2651
catcggtgcc agcctttcag atntcgnnag atcggagnan ataacctttc ttcaaaattt 60
ttcgagtttt tgaccggacg gccaaagggt tggaaaacga naggcgagac atcggacgat 120

atcagtgccg gagatgtgga acaggttgtt cctgccacta atcagtctac caaatccacc 180
tttctaggtc ttaggaactc gttaatctag 210

<210> 2652
<211> 252
<212> DNA
<213> A.fumigatus

<400> 2652
tctccgcgct cggctgacga ttatccacag gttactgctt tcacacaagc gaaaatgtat 60
actcaacatg gtgcccaaat ggcacccccg caaaaaccgg agacgtttat gttgtcgaat 120
gaagcgcaac aaagtctccc tcacgatgcg caagttgcgc ttcaacaggt tgataattgt 180
aagtcgatga tctgctactc tcatttgcga agcctctgct tcttacttgt aagactatta 240
agcgctcgct ga 252

<210> 2653
<211> 831
<212> DNA
<213> A.fumigatus

<400> 2653
agacatgcct ggatatcacg ttgccatcag ctgcttgctt ctctcggcca gaagctacag 60
tctctggctc ctcagcccac actgagtgat ttcccaatgc tctctctcac ctacgaggaa 120
ctcgacaaga tggtatcagc gaagctacca atcgccggta ttacctccct tgatcttgtc 180
gaggacgtgt atccttgctc gcgcatgcaa cagggtattt tgctcagcca gtcccgaaac 240
acctcggtct atgctgtgca tgatactttc gaagtgaaag gcgtcggaat caaacctagt 300
gtggatcggc tgatcatcgc ttggcagaag gttgtttcgc gtcatgcaat gctaagaaca 360
gttttcttgg agaacctgac aagccaggac ctttttgcc aagtcgttct caaggaatac 420
aacccagctc ccgcactgct gagctgctcc gaagaacgtg atgttttgcc aacctttgat 480
aatcaacagc ccgtgaacta tcgtgacccc cgtcccgctc atcgttttag tatctgcgag 540
acagcaaatg gcaaactgtt ttgccgactt gaaataagcc atgccgccat ggatgggact 600
tcaatctctc tgatcgttcg agatctgcaa tcggcgtaca gtggtcagct tcaggaagac 660
cgcaaaccca tgttcaagga ttacatgcgg tacttgcaga gctgctctca tagtgctggc 720
ctgaattact ggctccccta tttatccgat gtcaagccgt gccatttccc ggtgctcaat 780
gatggaagac cttcaaacaa gcggctgcac ggacttttca cctcggtctg a 831

<210> 2654
<211> 1464
<212> DNA
<213> A.fumigatus

<400> 2654
acctcgtcct tcatccggcg gctgataaga aactccgctg atcgacttcc tgtgtccgca 60
ttgctcgcta cgggtctcgt gcaccatcac atggtccgca ataagtggag atcactggcg 120
gctctagttg ttgaaacggc tgaggctcgt gaagtccacc acatgtgtgt cctcgttggt 180
tatggtgctg acgccgtcaa tccgtacctg gccatggagt gtattctcaa gatgaaccgg 240
gagaagttga ttcgcaagcc actttccgat gagaaggtca ttgagaacta caaggcttct 300
tgcgatggag gtattctcaa agtcatgagc aagatgggta tttctacctt gcagtcatac 360
aagggtgccc aaattttcga ggctctcggt atcgatgaca gcgtcattga ccgatgcttt 420
gccggaactg caagccgtat ccgtggattg acttttgagc tgatcgctca ggatgcatat 480
gccttccacg aacgcggata cccatctcgt tccatcattg aaatccccgg acttcctgaa 540
tcgggcgagt accactggcg tgatggaggc gaggcgcaca tcaacgaccc cgtcagtatc 600
gccaatgtcc aagatgctgt ccgtaccaag aacgacaagt cttacgaggc ttacgcgaag 660
gctgctcatg agcagatcaa gaactgcact ctgcgtggta tgctcgagtt cgacttcgag 720
caacggagcc ccattcctat cgaccaagtt gagccttgga ctgaaattgt tcgtcgtttc 780
gtgacaggtg ccatgtcgta cggatccatc tctatggaat ctcattccac attggccatc 840

gcaatgaacc gtcttggtgg taaatccaac accggcgaag gtggtgaaga ccctgagcgt 900
agcaagcgac tggagaatgg tgacaccatg cgctctgcca tcaagcaaat tgcctccggc 960
cgtttcggtg tgacttccca ctaccttgcc gatgccgacg agctgcagat caagatggcc 1020
cagggcgcta agcctggaga aggtggtgag ctgcccggcc acaaggttgt cggccccatt 1080
gcccacactc gttactccac tcccggtgtc ggccttatct cgcctccacc tcaccacgac 1140
atttactcaa ttgaggacct gaagcagctt atctatgatc tcaagtgttc caatcctcgg 1200
tcccgcgttt ccgtgaaact agtatctgag gttggtgtcg gtatcgtagc ctctggtgtt 1260
gccaaggcca aggctgatca tatcctgatt tccggtcatg acggtggtac tggtgcttct 1320
cgctggactg gtatcaagta cgccggtctt ccatgggaac tgggtctcgc cgagacccat 1380
cagactctgg ttctcaacga tctgcgtggt cgtgtcgttg tccaaactga tggtcaactt 1440
cgcaccggtc gcgatgtcgc tatc 1464

<210> 2655
<211> 792
<212> DNA
<213> A.fumigatus

<400> 2655
gtaaatgtcg tggtgaggtg gaggcgagat aaggccgaca ccgggagtgg agtaacgagt 60
gtgggcaatg gggccgacaa ccttgtggcc gggcagctca ccaccttctc caggcttagc 120
gccctgggcc atcttgatct gcagctcgtc ggcatcggca aggtagtggg aagtcacacc 180
gaaacggccg gaggcaattt gcttgatggc agagcgcatg gtgtcaccat tctccagtcg 240
cttgctacgc tcagggtctt caccaccttc gccggtgttg gatttaccac caagacggtt 300
cattgcgatg gccaatgtgg aatgagattc catagagatg gatccgtacg acatggcacc 360
tgtcacgaaa cgacgaacaa tttcagtcca aggctcaact tggtcgatag gaatggggct 420
ccgttgctcg aagtcgaact cgagcatacc acgcagagtg cagttcttga tctgctcatg 480
agcagccttc gcgtaagcct cgtaagactt gtcgttcttg gtacggacag catcttggac 540
attggcgata ctgacggggt cgttgatgtg cgcctcgcct ccatcacgcc agtggtactc 600
gcccgattca ggaagtccgg ggatttcaat gatggaacga gatgggtatc cgcgttcgtg 660
gaaggcatat gcatcctgag cgatcagctc aaaagtcaat ccacggatac ggcttgcagt 720
tccggcaaag catcggtcaa tgacgctgtc atcgataccg agagcctcga aaatttgggc 780
acccttgtat ga 792

<210> 2656
<211> 879
<212> DNA
<213> A.fumigatus

<400> 2656
tggccgttag agccattctc acatactatc agtacttgcc gtcgcaagct ctacttgact 60
gaagtggact ttcatactct ctcttggctg tctcccaata tgtgtcagaa cgaagttgaa 120
gtcaatggct ggaccagcat gcctgctaat gctggcgcca tctttgatgg tggacccttc 180
atcaacgtac cggaagccct gtcgatcgaa gagatcaagt ttccagtcga tgaccccatt 240
gttgagaaaa ccatgagata tgcaaaggct gctcttccca ctgaaacatt caaccactct 300
atgagagttt actattacgg tatgcatgac tgcgcgtccc atggtgtctt aatcaatcgc 360
tcacaggctc taggaatggc tatcaccaag cagcaattcc cgaagcaagc cagtgccctt 420
agccccagta cctgggcctt gacctgtttg ctgcacgaca tcggtacttc cgaccacaac 480
ctcgctgcaa ctcgcatgtc ctttgatatc tacggtggta tcaaggctct ggaggttctt 540
aaggggtttg gcgctacctc cgatcaggcc gaagcggtcg ctgaggccat catccgacac 600
caggatctcg gagttcatgg gacgatcacg tatatcggcc agctcatcca gctggccacc 660
atctacgata acgtcggggc tcacccatac gtcaaagact ttggcgagtt gatccatgat 720
acaactcgct cccaggtgca cgaggcgcac ccgccggggg aatggcgcac gttcttctct 780
ggcgtcatcc agaaggagca agcaatcaag ccctggtgtc atacaaaaaa gatggtgaat 840
gttctgagga aaggaagcca gcaccctgat gagcagtga 879

<210> 2657

<211> 228
<212> DNA
<213> A.fumigatus

<400> 2657
tccacttctt ccagcccggg cgcgtatata gtcttcattt atatttgggc cattatctac 60
cagctgtcta ttggtgccgt tgggtttgta ctggcgtcgg aaattgccac cgttcggtta 120
cggagcacga cccagggtct ggttacaatc accaatgcgg cttgggggct tattatccac 180
ttcacaatcc cgtatatggt ctgttccggc cttccatacc gaatttga 228

<210> 2658
<211> 504
<212> DNA
<213> A.fumigatus

<400> 2658
gccgtaccct cttcttggtt accccacaac agcacagctc catcacatca cagtccccga 60
tccgtcgacc tgtccccaac ttccaccatt caatatcttc actgctcact atcacctcgg 120
catctgattt attatatact tccaacctct ctctctctct cactacgcgt tgatgggagc 180
cccccgctcc gagcgaccct caacatggtt cagtctccga tgctgtcatg tccattaaag 240
cagaccaacg agattgactg gattcggcct ctgaaggatt atattagaca gagttacggg 300
gaagacccgg aacggtacaa tcaagaatgc gcgacgctca accgtctacg acaggatatg 360
aggggtgctg gaaaggacag cgcgacgggc cgcgatctac tataccggta ttatgggcag 420
cttgagcttt tggatttgag atttcctgtc gatgagaatc acatcaaaat ctcctttaca 480
tggtatggct tctcagcttg ttga 504

<210> 2659
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2659
agaatactaa ccgtggtatg tgcacgaaat agccttccat cagatggtgg caacgccccc 60
aatcagtccc acaagcacga gggtttcctc aagtctgcct ggcacaagct catgaatagc 120
acaaagaacg gcgacggtga aaactcggcc agcaattcag gcaagaaaga gtctggggac 180
gctgaaaaga gtgacaagga aagcaaataa 210

<210> 2660
<211> 279
<212> DNA
<213> A.fumigatus

<400> 2660
gatttcctgt cgatgagaat cacatcaaaa tctcctttac atggtatggc ttctcagctt 60
gttgatgcgc gcctctggct ggatggttca cacttactaa ttgacgctca acggtcccat 120
gacaggtatg acgcctttac ccacaaaccg acttctcagt actcgttggc ctatgaaaag 180
gcgtcgatta ttttcaatat ctctgccgtc ctctcatgtc atgcagccaa cgacaacgcc 240
gcagatgtga gatttgacca ggcggagaaa tatagaccc 279

<210> 2661
<211> 726
<212> DNA
<213> A.fumigatus

<400> 2661
cctcgaatct cttcacaggc cgactatgat aaggaatgca acgagaagtt gatccacata 60

cgagacacta gagcaagaca agccgcagtt atgcagaatg ggatgatgcc ccaagggccc 120
gcagcaggta tgcctggggt agggcagaat gggtttcagc agttgaaccg tcctgtgcag 180
gcatctccaa tgccaggcca acagcagatg ccgatcggca tcaatgatcc tacacaacaa 240
gccgcaattc aacagcgcca acagcaacaa cagcagcagc agcagtcaca acaacagcaa 300
cagcagcaac agtcgcagca gaatcaggct atgctccagc agcaacgtgt gcaacaacgg 360
ccaggcggca atgcttccct gcctgacgat ctcaataccc tctcggctca agaatatgaa 420
catgtctgtc ggatagccaa tcaaatcctt gctaaaacgc ctcaggaaga catggagaaa 480
atccgcatga acctacagaa tatgacaccg gaacaaagac aataccttac ccgaaagaac 540
atggatccga ttacgtactt cttccgttgc caggctttga atcaactcag aaggcataaa 600
cggaaccgca tggaaatggc acgagcgcag agcgccggtg tcgatcccaa tggggccatg 660
atgacagatc ccatgatgaa tccgcagcag cgacagatct ttcagaatat ggtcaccctt 720
cagttg 726

<210> 2662
<211> 393
<212> DNA
<213> A.fumigatus

<400> 2662
ttcgaagtct attgggccaa ggaggaccac tacggagcac actacgatgc cggagactat 60
gaccgtgggc ggcattcgct cgtcggcgag tccagcgtcc gcggcgcata ccgagtcaac 120
gcgtggtggt cgagcctgat ccattatatt ttcctggatg agccgcggac gatgtgcgtt 180
gttggggaac ccaaggccac gaataccact gttctgtcgt atgagaatgc gcatggcctg 240
acggtgcaga aatacgtgga tctgggccat aagcgatcgg tccatgtgta ttgcagccgg 300
gagaaatggt ttcagctgtg tccccttttc tgggatggga gggaaagacc actggaaagt 360
tcggatcgga tggcgtggga tgcaaagctg taa 393

<210> 2663
<211> 201
<212> DNA
<213> A.fumigatus

<400> 2663
caccggactg caattcatgg gacgattcgg agcacagcgc gtcggagcct ggatgaccag 60
ctgatatctt tttctatcat ccccttgttc acattcttgg atgctactac tgtactgctg 120
acgactgtgt actattttgg cggctttcgt agcgtatgtc atatgagctt tgcctacctg 180
tctgggtccg agagcttctg a 201

<210> 2664
<211> 774
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (238)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2664
taccggggcc aaatgccgga aatcccattg tccaaacttg accttcaggt accaggttgg 60
ggttcaattg aagcccgaac ccagattttg attaagacca aggttcagaa tgacggttgt 120
ttggaccgaa gcaacacgcc aggccccagg aaacccaccc caaaccccca aagccttagc 180
ccaagaagat cgaatatttc ttgcatatct atcccaaccg ccgaagtgac cattctcnta 240
cattcgctct tcccaccctc cacacctcca gaaaaggcac gcctgtacca tcatctcgtc 300
aactcgcgcc gtgtccagcc caccttccac gtcaccttca tccaccgcgc cagcaagacc 360
gagcgcgtcg atatctggga ccgctacgcg aaccaatata tcgccaaaat gaaggagcag 420

tcccaggccc aggcccatac cgcaagccct gtcctgaccc caactctggc gcctgcgcgg 480
gtccgcctcg agcgtctcat ctgggacgac cgcatcatgg cctttgtcgc gcgtatcatg 540
cctcccgggg accgcgagca gcccgactgg ccgtgtgcga accccatccc gcacgtcacc 600
gtcggcaccg cctcggcgga ggtcaagccc aaggagagca atgacttgct gagacggtgg 660
ttggaggttg gatcgggcgg ggacactggg atctgggagg cggagattcc cggcgtcaag 720
gttgtgcagg gctctgttgg gatggtgatg agtcgggggа agttgctgaa atga 774

<210> 2665
<211> 462
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (24),(132)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2665
gcccaagacc cgggaacgga cccncaagac ccccccaaaa ccgagccccc gcccccgaaa 60
ggccccgtca aaaaccgagg ttcccccccg gagcctccac ggcacccctc atacccccac 120
cctggcgttc gngggtgcca acgccgccat ctcaatcgac aaccccaatg gcgacgcaga 180
caacatcgcc aactacggcg acttcgtacg cccccgtccc caaggcgcca gaaagttaat 240
gctcagaaag ctgacagacc agaccccact ccacaaacat gtctttttct gggaccgcga 300
ccacgacggc cagatttacc cgctagacac ctacaagggc ttccgggagc taggcttcaa 360
catgctcttc tcgctgctgg caatgctgat catcaatctg aatttctcgt atcccacgcg 420
gttggtgcat tccgtgatcc cggacttgtg gttcagggtt ga 462

<210> 2666
<211> 732
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (23),(131)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2666
cccaagaccc gggaacggac ccncaagacc cccccaaaac cgagcccccg cccccgaaag 60
gccccgtcaa aaaccgaggt tcccccccgg agcctccacg gcacccctca tacccccacc 120
ctggcgttcg ngggtgccaa cgccgccatc tcaatcgaca accccaatgg cgacgcagac 180
aacatcgcca actacggcga cttcgtacgc ccccgtcccc aaggcgccag aaagttaatg 240
ctcagaaagc tgacagacca gaccccactc cacaaacatg tctttttctg ggaccgcgac 300
cacgacggcc agatttaccc gctagacacc tacaagggct tccgggagct aggcttcaac 360
atgctcttct cgctgctggc aatgctgatc atcaatctga atttctcgta tcccacgcgg 420
ttggtgcatt ccgtgatccc ggacttgtgg ttcagggttg atgttggtgg gatttataaa 480
gccaaggtgg gttcgtttga cttgggacgg gttgagatgg gagctgatga gaggtatgca 540
atgcagcatg gttccgatag cgggacgtat gatcctgaag gacggttcat cccgcagcat 600
ttcgaggatg tgtttgccaa gtatgatcgg gatcacgacg gggcgttgac tcttggggag 660
ctgtttgaga tggtgcaggg aaatcgatgt gcgatggatc cgtttggggt aggtcttttc 720
cttctggctt ga 732

<210> 2667
<211> 300
<212> DNA
<213> A.fumigatus

<400> 2667
gctgaattac gcgcaaatgg ctataaaatg actcagaatg aagaggattc acttattaga 60
tggattctat ctatggatca acgtggagca gctccccgac cgtcccatgt acgagaaata 120
gcgaatatcc tgcttgcgca gcgtggttca actcctaccc agactgttgg agagaaatgg 180
gtatataact tcattaatcg gcataatgag atcaaaaccc gattctctag gcgctataac 240
caccagtgtg ctaaatgtga agacctaaag attatcctag aatggtttaa ttatgtctag 300

<210> 2668
<211> 309
<212> DNA
<213> A.fumigatus

<400> 2668
tctgactcga gcgttgaacg ccgttcagat ctgctcataa tgtacctttc accaactgcc 60
tttcttctct gtccagagga cggatcctct tgtccattgt cgactgtcct tatgttcgac 120
aacttttctt cacccgcact ggtgtgcgaa ttcccttcca cctaccttcc tttcatcgga 180
gacctcgaat gccaggccgt tttctatgtc ctgtttttca aaattcagaa tgatgcaact 240
atgcacggtg tgcttttaaa gaggaacggc gtctaccttg catgctccca acaatctcat 300
gccttgtag 309

<210> 2669
<211> 327
<212> DNA
<213> A.fumigatus

<400> 2669
cgcttgtggt cgaaaatctt taggtgggaa catgacccgg catgggccat tacgtcgaag 60
ctcctgatct ccaagcacca gcaagttcaa ctgctggagg ccgcaagcgt cctggttaac 120
atgaaccagc acgcaccttc agaaagcgcc gaagccgagt ccgaccagtc atctgcgtca 180
cccgacacgt catcggagct tcgcgacggc atcagctcgg cggaaactac ccctcctcct 240
atggatgagg acgatgagaa cgaagaggac atggagatgt cgggcatgcc cgtgttccca 300
aacaaacgat acagcgtggg cgtcttc 327

<210> 2670
<211> 603
<212> DNA
<213> A.fumigatus

<400> 2670
ccacggtgtt actggtcgga agagtgtcac caccactggt tgctgcaaat gccgctgccg 60
cggtcgccgc catccatgaa ggacaccaat ggggaaccga taggtgtgcc gatgcttctt 120
caccgtcgaa gcagcaccag gaggggcctg gaatccactt cggtcggagc tccctccggc 180
ttcggccact atctttctcg gagcatgaac agccccagcc aagaacccgc ggtcgctcgc 240
aaaccctcgc ccaatcattc caacatcggc gcttcttccg tcgccgcagc tggcggcgag 300
gagagtagtt cggataacaa acccgtcaac accaagagtc gaaaccgtcg cgccagcgaa 360
ggatcgcact tggtcaaagg cgaaggaaag cgcgccttgg cggaactacg ctgcgatcgc 420
tgcgggaaag ggtataagca tggcagctgc ttgtccaagc atatgtgtgt atactccccc 480
ccaaaatgcc atcctgccgc ttggatcgaa tcggagcaat gcgccatgtc ggctctgttg 540
caaggtcgcc ctcgtggtca tgcagctccc ctcgtctccc cagacccctt ccccccccctc 600
tga 603

<210> 2671
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2671
cacacgacag tggggtcggt ccaggactac atcagcacca accagctggc agagtacagc 60
gtccgtgatg tgggctggat caccgctatt cttgttttcc tgactctatt ccttggtgtc 120
caggtcgggc ctctgtttga tcgatatgga ccgcggattc tgttggtgtg tggatctctc 180
gcccaacacc acctcttata ttctggc 207

<210> 2672
<211> 180
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (135)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2672
cttagaatac tgttgtatat accaaactta aatttgagta cttctatatc tagatatatc 60
tcaatccacg tatggctttc ttctgaaact attagcaaaa gaattaacat taatattaat 120
gcccaccttc atgtntttac cgacgagcgc caagcacaaa atcttaaaaa cccaaacacc 180

<210> 2673
<211> 495
<212> DNA
<213> A.fumigatus

<400> 2673
gttctttttc tgtcagcaat gaagctcagt gctctccttc aacctcttgt gctgggaatg 60
tctgcctcag ctgcggcacg ccccagcaag ccctcgacct acacagagcc ctaccgcccc 120
cagtaccact tcagcccgga gaagaactgg atgaacgacc cgaatggcct cgtgtacgat 180
gccaaagagg gcgtctacca tctatacttc cagtacaatc ctggcgggac aacgtggggc 240
gcaatgtcct ggggtcatgc gacgagcaag gacttgatgc attggacaga acaccctgtt 300
gcgcttcgtg cgaagggttt cccggataat atcaccgaga tgttcttttc tggaacggtt 360
gtgattgatg agcggaatac aagtgggttt gggcggaatg gcaatacgcc ctgggttgcg 420
atgtatacgt cctacgtgag tgtgctttac tcgctggttc tcatccggac aaacttacgt 480
tttctgcgag cagcc 495

<210> 2674
<211> 375
<212> DNA
<213> A.fumigatus

<400> 2674
ggatttggta tcggttacat catcaaagac gattatatct cgatatgtgc ttcgtccaag 60
caccggcaga ccgcccggtt gatgcaaaca ctggagtcgt atttgtacga gattcggaag 120
ctgctccgag ccaccaacag taaggcggtc agccctcgca caagcagggc acgcgagatg 180
gagatggttg ccgaacggtt ccaaaatgat catcgtcggg gccggctagt gcgtggcgac 240
tctggtttgg tgcgacgggg cacggatacg ccaactacgg acagtggcga tatcgaggat 300
gatggcatgg gtggatgtag gtctctctca agaagctatc tcttttcaag acatttgctg 360
acaatgaccg tatag 375

<210> 2675
<211> 900
<212> DNA
<213> A.fumigatus

<400> 2675
gccaccatgg tagccttaca aaatgcattg gcatatcatg agccagggat caaaactatt 60
ctgatccaaa ctagctttct gcttgccctc aactgggtga acaccctact tgataagctg 120
atctactgcg ggcttattgg gcagcttctc attgggattg catggggagt tcccggagcc 180
aactggctag aactggacgt tcagaaaacc attcagcagt tgggatatct cgggttgctt 240
ctcttggtgt acgagggtaa gttgattgca gaagcaccag ccgataccgt tatttttgac 300
gagattgttt caacaggtgg cctttcaaca tcattctccc aattgaaatc aaacattggt 360
ctgtcctcca tggtggcgat caccgggata gctgtgccta tggcattatc cttcatcctg 420
atgagcttac tatcagcgac tcctcttcaa gcatttgccg ccggtgcgtc cctctgctca 480
accagtatcg gaaccacatt caccatcctg tccacgacgg gattggcaaa gaccaggttg 540
ggtatcgtcc tgggcagcgc agcgatgatg gacgatgtcg caggcttggt gatggttcaa 600
atcatctcga gtctgggtag tgcgaatcaa gaatcgtcct tcgacccggt ggtcgtgatc 660
agacccatct ttgttgccgt tgggtttgct ttggggcttc ttctcatttg gcggtttgtc 720
gttgtggcgg tcgtacggaa atatcaggcg cacgcgattc gaattcctgg ctggatgagg 780
tctctgaatg tcgcattggt tatctacatg ctctatctca ttggactggt caccagcgca 840
cagtacgcag gcacgtcggg actcttcgct gcatatctgg ctggggctag catttcctgg 900

<210> 2676
<211> 954
<212> DNA
<213> A.fumigatus

<400> 2676
gaagacatca gagatgtatt cgctgcgaaa gggttccttg ttgatgtcca cttgcctttg 60
gacgccgaaa ccaggaaaca tgcaggcttt ggttacctat acttcccttc aattcacgcg 120
gcaagggcgg cattggatgc cttgcaaggt acacacattg atggtcactc tatcaatctg 180
gaactaagtg accattcgcc aattacgtcc ctccatcgtg accacccttc agagttggac 240
cacgctcgtc gaccatcgga gctgcacagc tcggccagtc catcttcggg aatacagcct 300
gagcggctcg aggttggaca agatctcaaa gcgagggagg cacgaccgat tcctctgagt 360
gtgacggatc tatgttcgag caacgaaagc acagatcatg aaccaaaagg aaacaatatc 420
ctgagcacta cacctgacaa tttccccccgt ctcactcgag acttagagca gagccgcttt 480
cctcccctgt ctcaaataga tgctcgtgtt ctaacacatc accgtcgcga cccagacaca 540
tcaatgttgg gtgcgtcggc gcccgcgtgt gatgcgagcc atgggaatga cgcctctggc 600
agatcgtgtc aactgcaagg taccccaggc tcgtttcctg acgatgatag cgatgggacg 660
cggtcaggtc cactccaaga actagctcaa acctcaggcg caggtcatga tgatcactgt 720
aagcctcgtc gatcgaagag tatgagatac ctgaatcgca acggagataa aagtccctca 780
agagccttga gacggcgggc aactgagcga cattccctac gccatggtac acggaacagt 840
gttggtggat ttcacgacga gggatgcgca tacgacaact actccaatac ttccgggtac 900
tctcgccccc ggagcccggc cgcatcgcaa gaaaaaatct ccgtccccgg atga 954

<210> 2677
<211> 729
<212> DNA
<213> A.fumigatus

<400> 2677
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ccttatagac ctcatccgtg gcgccgttgt cattcccacc accatcatcc gcatcctcat 120
tctcgtcccc atccgccgcc ccctcctccg cacagccatc acgatattcc ccatcctcat 180
cctcctcacc ttccccacca ctatcatcaa catcagcctc gtccctttcc tccgcctccc 240
ccaccgcatc aacatcatca tatgcctccc ccccctcccc cccctcaccc gttccatccc 300
tcgcatactc cgcgcccatc atggggagcc cacggcccct tccgtccatc atttccacct 360
catccgcgtg ctcacgatca tggatcatgg cgctccgcgt ggccatttt ctggccgcac 420
caggagtatc agtctgaagc gccgacagtt gctatggacc aactccccga cgctaccgcc 480
agtgcacccc gtcctgcaga cgcagtgttg ttcattggca atgttaggtt caatgtcagt 540

gagaagacat cagagatgta ttcgctgcga aagggttcct tgttgatgtc cacttgcctt 600
tggacgccga aaccaggaaa catgcaggct ttggttacct atacttccct tcaattcacg 660
cggcaagggc ggcattggat gccttgcaag gtacacacat tgatggtcac tctatcaatc 720
tggaactaa 729

<210> 2678
<211> 405
<212> DNA
<213> A.fumigatus

<400> 2678
caactgtcgg cgcttcagac tgatactcct ggtgcggcca gaaaaatggc cacgcggagc 60
gccatgatcc atgatcgtga gcacgcggat gaggtggaaa tgatggacgg aaggggccgt 120
gggctcccca tgatgggcgc ggagtatgcg agggatggaa cgggtgaggg gggggagggg 180
ggggaggcat atgatgatgt tgatgcggtg ggggaggcgg aggaaaggga cgaggctgat 240
gttgatgata gtggtgggga aggtgaggag gatgaggatg gggaatatcg tgatggctgt 300
gcggaggagg gggcggcgga tggggacgag aatgaggatg cggatgatgg tggtgggaat 360
gacaacggcg ccacggatga ggtctataag gaagatcaaa cgtag 405

<210> 2679
<211> 741
<212> DNA
<213> A.fumigatus

<400> 2679
ggttttgggg ggggacccgg ccgaaaacaa atgggaccca ggggttttgg gggatttcag 60
gccccccgcaa tgctttcaca aggggaaact aaaacgctca agagcctggt cggaaccgtg 120
tgcggcgtta ccccactggt gacggatttc aaccgcgagt acaagcatca catctaccaa 180
ccgtgcatgc cgcatgtcct caacgccctg acgcgtcaga ttgacatggc gaaccgcacc 240
gacgatttca cgtcgtggcc ctggcactcc aaatggatgc agtcggtgac cgagggctac 300
gacaagcaga acgagctgac gccgcggctg gggttcaagg acattctcgc caaggagcag 360
ctggaaagcc ccagcgccaa gcactggccg gtccagtcca aggagatcaa ctactatgga 420
tacccggaca ccgagctgcg cgagtacttt cgcgatgcga tcgacgacgc cgagcgagag 480
cgcaagcgcc tgttcatcac ccatctgacc ggcacgacgc accatccgtg ggggatgccc 540
aacaacagct accagcactt tatgggcgac aagaacttca aggccaagga cgatctcaac 600
aagtatctga acaccatcgg gttcatcgac aactggctgg cggagattat ggacattctc 660
acggagaaag gcgttgcgga cgagaccctg ctcgtcatgg ccggcgatca cggattgtcg 720
cttcccaatg acggcggcgt c 741

<210> 2680
<211> 1431
<212> DNA
<213> A.fumigatus

<400> 2680
ttgccggacg caataccttt cagcctcggg cgtgtaagac agccatggcg acagctgatg 60
caggatgtgt cgccatcttt tacctcgtcc ccgacatcca caatgaccac catatctact 120
actactgctg ctactgctgc tgctgcaccc aaaccagaca agcctcgcaa gctacggtca 180
gcctgtgatg cctgtcaccg gtccaagacg cgatgttccg ggggcaatcc ctgtacccga 240
tgccacgagt acatgagccc ctgcacctac agctattcct cgcgctgcgg caaacccaag 300
ggggcccgga gtcgcaagac tctggagcgg gagcagcggg tggcagcggc tgcagaatcc 360
gctcggatag caagaaatcc ctccgccctа gcctcactcc cggctacatc gacatgtaca 420
tctacagcaa caacagcagc agcagcagca gcagcaacaa caacaacaat agcaacaacc 480
acagctccct cccagggtcc agctgtggac agcgcggctg ccgctgccgc tgccaccaca 540
tcaaccgtcg cgtctcctcg cgcggacgac tgcctcggtc tgttcgacga cgatgaggaa 600
tcgaacccgt ttttctccag cggtagcgag aataccgggg ggacttcgtt ttccccggac 660

tggatccctc ctctgccgtc catctccgat tccgaccttt ctttcccgtt attagagtcc 720
tgtttagggc cggaccatga ctgcaacgac tccctttct ggagcaccac cgccgagccg 780
gactgccagc cgacgagcaa ggagccgctg gatcctcgat ccaagctgct gcgctcctgc 840
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tttgtctttg tgcggaacta tgcgcgcgca ttttccgcct tctaccactg ttcccactgt 960
ccgaaagatg ccggcagtat tagcatggcc gtgaccgcgc tgcagctggc cacgaccgcg 1020
ctggaaaaga ccgccaccgc cgggaccgac gcggctggat tcaagtcggg ctgctcaggg 1080
atgaccgccg cggacttgga cgaggacctc ctcacgccag gcgccgagtt tttcctgccc 1140
gcgaacggca ggggtgcctc caatccggcc ttccagctgg gcagctacca gatcgccccg 1200
ctcccgggag agcccgatgt ggaggaacac agcgagatat taaacgtctt gaatccggtc 1260
cgcggtgccg ccgcctactg ggcggctgct ggcaattttg gaattgcccc ggggggccgg 1320
ttccccccaa gggcccgggg gatttttta gaacccttta atcggtcttc ttcctcttct 1380
tcctcttcct cctccttctc atcggggtcc gaaattcccc cacctctgta a 1431

<210> 2681
<211> 645
<212> DNA
<213> A.fumigatus

<400> 2681
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agggtctgga ggcatttgca ggagcgcagc agcttggatc gaggatccag cggctccttg 120
ctcgtcggct ggcagtccgg ctcggcggtg gtgctccaga aaagggagtc gttgcagtca 180
tggtccggcc ctaaacagga ctctaataac gggaaagaaa ggtcggaatc ggagatggac 240
ggcagaggag ggatccagtc cggggaaaac gaagtccccc cggtattctc gctaccgctg 300
gagaaaaacg ggttcgattc ctcatcgtcg tcgaacagac cgaggcagtc gtccgcgcga 360
ggagacgcga cggttgatgt ggtggcagcg gcagcggcag ccgcgctgtc cacagctgga 420
ccctgggagg gagctgtggt tgttgctatt gttgttgttg ttgctgctgc tgctgctgct 480
gctgttgttg ctgtagatgt acatgtcgat gtagccggga gtgaggctag ggcggaggga 540
tttcttgcta tccgagcgga ttctgcagcc gctgccaccc gctgctcccg ctccagagtc 600
ttgcgactcc gggccccctt gggtttgccg cagcgcgagg aatag 645

<210> 2682
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2682
ccgtcgtttc cacccccctt ctctcgtccc gttcctgccc tgatcgactt tccctctttc 60
ttctcccctc cccaagatgc ccgtgggctg gccttctccg cctgcagctg gcaccttgac 120
cactttagta tcatcctctt cccccgacgc ctatcatcca cactcccaag acagccggag 180
cgccagtag 189

<210> 2683
<211> 1644
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1510),(1553),(1602)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2683
actatttgga tggagggtgg gttctccaag ttcttcatgt ttttgaagca gaacccgcga 60
gacccgtcag ccgacaaatt ccgcatgcct tgtgccatga tgctcctcta cgcattcgaa 120

ttgatgcttc gcgacgggct caccgctgcc acttttaaag atattcaaga agagattgaa 180
gcagtctttg aagacggtag tgacaagcat caacacagag ctactgcaga aatccttggt 240
gcacttatta gctctgtcgc ggatacgagc gtggagaaga ggacactggt ttgggaatat 300
gctttcccga tcgtgcaaag aatcttcacc gatggattga ccccggaaaa ttcaggctac 360
tggaccactt tccttcatat ggtcctccaa tgtcgggatc cacgacgagc ttggcccttg 420
gttgactggc ttgccagttt caggctggat atgacaacca acgcagcctt caaagagagc 480
tccaagatca acctgctgca tcaatgcatt atagacgctg gctggcactt ccagttggag 540
aagccaatcg tccaagattt cctcgcacat ctcgatcacc cgtacaaggg agtccgtgag 600
gcaatgggtc agacacttgc aacaatttac cgtacacgat atcacgagtc gtacgcggac 660
cttcagcgtc tcctcaaggc acaagagtct gcttcacctg tcggctcata tgcatacctt 720
cctactgagg agttttctaa gatggtgcgc gacgtctttg cccggattga gaaatggcgc 780
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cctgacgtgt tcacagggca gcttttgcat atgatggatg tcaaagaaga tccagaactt 960
cagtcattag cctaccatgt attccgtcac ttaccgaata ttccgtaccc tgccgagcag 1020
gactccgggt tcatcaagtc cttgatactc attgggcaga cgtcaccctc atggcaccag 1080
cgcttgcgag tgatgatcaa catccagatc atctacttcc gccgtctgtt cctactttct 1140
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gaggtgaggg ctggtgcatc agctaccctt tcgggcatga tacggtgctc gcccgtgtct 1260
ctccggcagc gcatggttag caggttacaa gagcgcttca cgaggacttt ggttgagaac 1320
ccattaccca agaaaccaaa gaaccacgct cgttctgcat tggcttctcc agtctcctct 1380
cggtccggca caccgactcc cgaacatact agactcatca ttgtcagaca cggcgcagtc 1440
ttgggtcttg gggctttgat acaagcgttc ccttacgata gtccaccccc aaggtggatg 1500
cctgaggctn taaccacgct gagtaaccgc gccgcaagcg accctggcat tgntgggtca 1560
agcgtcaagt caattatcag tgatttcaag aggacgagac angatacctg gcatatagat 1620
gcaaaggtta gtgacgaacg atga 1644

<210> 2684
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2684
gttctctgca cttggctcag atggtctaca aatccgctaa cgcactggtt aggctcgacg 60
gcatactctc tgtctgcagg tggctctctt attcatcctt ctattccggg cattctcctt 120
actcctatct gcccccatac gctgtctttc cgtccaatgg tattgtcaga ctcgctgttg 180
ctccgtatcg ccgttccgac gggatcccgc tccagtgcct attgttcatt tgatggcaag 240
ggacgcgttg aacttcgtca aggggactat gtgactgttg aaacc 285

<210> 2685
<211> 867
<212> DNA
<213> A.fumigatus

<400> 2685
ctggtcctgc aatcgccatg ctttttccat cgacggttcg acgatgccgt caacattcag 60
aaggtgctgg aggaaatatc cgacgatgag tggttgtcgc attcgcggct ggtacaaact 120
gcaaccggag tgcgggaggt gtcgaagcag cttcaaaggc ggccgatcaa acgggcagtg 180
aaaaatgtga tgattgtgac aaaggcgcgt gataaccgtt tggtgtacct gacgcgagag 240
ctagccgagt ggcttctctc gaccccgcga tatgggagcg acctgggggt gaatgtatgg 300
gtcgattcta aactacggaa ttccaagcga ttcgacgccg ccggactgct gcaatctgag 360
ccgcgatttg agcagatgtt gcattattgg actccggatc tctgttgggc cgctccggag 420
aagtttgatc ttgtccttac gctaggcggg gatggtacgg ttctcttcac gtcgtggctt 480
ttccagcgga tcgttccgcc ggtgctctgc ttctcactgg gaagcctggg ctttctgacg 540
aatttcgagt ttgagaacta caagtcccat ttgaatgatg tcatgggaga tgttggtatg 600
cgggtcaacc ttagaatgcg gttcacctgc acagtcttcc gcaaagaccg aagcaaaggg 660

gcacaagcag gtgcagtcga agaaggagag cagttcgagg tcctgaacga gttagtcatc 720
gaccgggggc cttcaccttа tgtgtcaaat cttgagctgt acgccgacaa tgatctcttg 780
accgttgttc aggcggacgg ctgcatcttc tccacgccaa ctggtaagtt ctctgcactt 840
ggctcagatg gtctacaaat ccgctaa 867

<210> 2686
<211> 204
<212> DNA
<213> A.fumigatus

<400> 2686
aggtgcattc tcggcctctc gtgcctcttt atcgggattc gtcctctccc acagttcctc 60
aagttcctgt tcccagccga gcgctcgtgc gaactttcgc acaccggcat cacaatcgcc 120
caaaagaagg acatcgtcgg gacgagaccc catacctccc acccgttcca tgttaatcag 180
tactcgcggg actccctcac gaca 204

<210> 2687
<211> 426
<212> DNA
<213> A.fumigatus

<400> 2687
aatagtaacg cattgcagcg tttacacccc aagatggccg acggcaaact caggggtgca 60
atcctggttg tttcagatac tgcttctcag gatccatcca ctgacaaggt cggcgatact 120
ctgaccgttt catttacagc cgggggggtcc aacagctggg accctcctgt catcaggatc 180
gtgccagata atgtgctaga tatccaacgg acaatctgca actggacaga cggtccaaat 240
tggtttaatc tggttttgat cagcggtggc actggttttg ctgtcaagga caatactccc 300
gaggtctgtt atgctgcctt tgggggaccc aagcgacaaa ctgataactt gtataggctg 360
tgtcacctct catccatcgc catgcgcctg gccttgtgta agccgactgc caaagttact 420
tattaa 426

<210> 2688
<211> 726
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (673)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2688
caccgtgtaa ggctggaaca atcattttac tcagtgcaac agctgaccat tccttcagtt 60
gcaatgatgt ctcggcctgt tgcaggtgtc agaaacaagt cgctcttgat taccttacca 120
ggttcaccga aaggagccaa agagaatctg gaggctatca ttaagctcct accgcatgcc 180
tgtgctcaag cggctggagc aaactccaga gctctccatg caggtggggt aaagaagcta 240
gaggccgacg ctggtattgc ttctcaaagc caaagctcag ggagcaaagt acaatcgcat 300
gatcaacacc accaccacca tcaccacaac cacgggcatt ctcatggcca cggacacgta 360
gtcccaaggg cgcatacatc accttcacaa cggcctcagt ctaacgatcc gaatgcagga 420
ccgaaccgcc ggtatcgctc gtctccttac cccatgctgt cagtcgacga cgctctcaaa 480
ctgatcagcc aatacacgcc tgagccggcc gtcattgagg ttcccgtgac accttctctt 540
gttggctctg ttatcgctga agatgtttac gccggagagg cagtaccagc ttaccgcgcc 600
agtattgttg atggatatgc cgttattgca ccggactcgc caacggcgga gtatagtacc 660
aggggaattt tcnccagtgg cctccatcac ccacgcgaat ccaggaggga cgctgtcgcc 720
ccttga 726

<210> 2689
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (195)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2689
gcaggcttca agtcgaaaca acctgcgtca aagtcagcag gcgacaagaa gaaccagggt 60
gacctggctg gtggcatgaa caatcttagt gtccatgaga aggtggctgt caagagcaag 120
aatttggatg tcttgtcgga gtatcataag tctcaacgga agagagcaat gaactttgcg 180
gttatcggtc agtantcatc atctacacca cagtgg 216

<210> 2690
<211> 861
<212> DNA
<213> A.fumigatus

<400> 2690
catactgcaa aggaattgga aacactacca cagagtgatc agcaaggcat cgcgcatgct 60
tggtcgattt tttctgcggc cccggcgaag caccgaaaac tcatcctgca gggcataatg 120
gcacagtgtt gctttccgca actgtctttc atctcagcaa cagtccgcga tttgattcgt 180
atcgacttcc tcacggctct ccctccagaa atctctttca aaattctatg ttatttggac 240
acgacctctc tctgcaaagc cgcgcaagtc tctagacgtt ggagagcatt ggccgacgat 300
gatgtagttt ggcaccgaat gtgtgagcag catattcatc gcaagtgcaa gaaatgtggt 360
tggggccttc ctcttctcga tcgtaaacga ttgcgtgaat ctaagcgcga aatcgaacgc 420
cgtgcagcta catgggatgt cagcaagcag ccagcgggga tcgaaggcag ttcggctact 480
atcgaaactg cagcggcagg atccaagcga aaaccggaat cgggtaaaga agacacggcc 540
atggtaaaac gtcagtgcac gtctattgtt tctcaatcag agcaaaatga ggactacttt 600
aaaacacgat acagaccgtg gaaggaagtg tacaaggatc gctttaaagt gggcacaaac 660
tggaaatatg ggcgctgctc cacccgagta ttcaagggac acagtaacgg cattatgtgt 720
ttgcaatttg aggacaatat cctggctact ggttcctatg atgctacgat caaaatctgg 780
gacacggaaa caggcgagga gcttcgcacc ataaagggac accagtccgg cattcactgt 840
cttcaattcg acgacacgta a 861

<210> 2691
<211> 354
<212> DNA
<213> A.fumigatus

<400> 2691
ttgattagtg gcagcatgga tcatactctc aaggtgtgga actggcggac aggcgaatgc 60
atatctactt actctgacca ccgtggaggt gtagtcggcc tgcattttga cgcaactatc 120
gtagcatatg ggtctgtaga caagaccgtg aagatctgga atttcgagga taagtttact 180
tgccttctga gtgggcacac cgactgggtc aatgccgtcc gagttgactc ggcctctcga 240
acagtatttt ctgcctccga cgactgcacc gtcaaacttt gggatttgga tacaaagtcc 300
tgcatcagaa catttcattc ttcaccccgg ggctggaagg aaccgcgtac aggg 354

<210> 2692
<211> 198
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (10),(38),(54),(60),(61),(80),(125),(188)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2692
acggcaattn atggaacggg tggaaaaggc ttgaaaantg gggaaaaacc gaanaatctn 60
ntccttgagt cggaatacan aatttactgc ttctcttccc tgaaattaat ggcctcctgg 120
ttccncctaa tgttaacgaa tattcacttt tctaccggta gcgaaaaatt actttacccc 180
tttggttntt tgatctaa 198

<210> 2693
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2693
ctttggtgtc aatgtactgg ttctagaaga ctgaagctta tgggcagtta cctagcctct 60
catgtgaaga tatgtctcgt tgtggccaga aataacactt gcagacactg gaatatggtt 120
tcaagacaac ttattggcag ctccaagatc atcgacgtgc agaaatctgc tcacatcaat 180
gttggtggtg gcggcatatt cgctgatgcc agtaagaggt actag 225

<210> 2694
<211> 867
<212> DNA
<213> A.fumigatus

<400> 2694
cacccgagcc aggtcgctca cctttgtgcc gtgcagaggg tgaaggggag gggagagctg 60
atcccagagg ccgcaggtgc cgtatcaaca gacatgccgg gcgtcatcat ggataatgct 120
acaactggcc ggcccgggca tgcgccagac actcagaccc cgagtaatgg agataacttg 180
cgaaatgggt cattccatat caacggagca gccaaaggag acaaagatca cgatcctgat 240
aaggaaagtt atgctggcaa acctagaatt gacggacaca gagctctgcc tgagatacca 300
catattacac aggggttctt tccattctca acgctagtca accgatctgt gcagcaatgc 360
tggaatgagc tatctgacct tattacagag ctggcggcaa tacatgtgtc gccgcatagc 420
tcggtgcctt tgttgcctgt caatggaaaa tctcctggga atcagtctcc cgagaacgtc 480
cagaaaaagc tcagaatact agattttgct catgctaaac gggccgagtt cattaaactt 540
ctcgttcttt cgcaatggag tcggcgagcg cgcgatgtca gtaaattaat tgacctgcaa 600
aactttattc gcgctcgcca tcaagctttt gtggatgcgt tgcagcgagt gggggaaatg 660
aaacgggacc tggtgcaggc tcaggtggcc aatccggatc tccaaactgc cctggagatc 720
ttgtcaaagg gcaggctgga atccttagcg gatgtaagcc ttgtttgtac gcatgaagct 780
caacatctac tgactcaaag ttgtctagct cggctacaag tcgtccaaac ttctaacacc 840
gagaggagct ttgagacggt tgcctaa 867

<210> 2695
<211> 600
<212> DNA
<213> A.fumigatus

<400> 2695
aactggtacc ctgctctctg gcccgcggtg tctaaagcat ctaaagcggc gcctgttacc 60
gaggttgccc gcgagagcat ttcggttgct caaaatgtag catcgagcat gactacctcc 120
tcggaatccc tccttcatac cccaaaacaa catagaaacc cttcacttca gctcaccaag 180
aaaaaaggcg catcaaccag gtctcttcct gccgacgcta cgacaacaaa ggtcaacatc 240
acttccgatg gttccgcatc cacttcagca ctggattctc agttcgatac tgccggccca 300
gccccgaatt tggcccaaaa ggaaggatca agcgaggagg ctgcaggagc tactgacgat 360

aaaaacggag agcaactaaa acagacaacc gacacctccc catcaggcgc atgtactgga 420
gtggtggaac cgggtcaggc tcaatcatcc tcgaagccag ctagtggctg gttctcatgg 480
ttctatacag caaactcagc tgaagaatct tccagtggtg ctcagtcaga acgagcgcgt 540
gagaccgaaa gcactccgac agaaccgtcc gctgaagaac cagacgccga agaattgtga 600

<210> 2696
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2696
ttttggcttc cccttggtct gccagtcaag tccaaggctg acaaatgtgt gtttcttatt 60
aggacccgcc ctggtgagcg cgttgccaag cgtcgccgct gcaagtctcg catcggttcc 120
agccacaaga tcacccaggc cgagaccatc aagtggttca agaaccgctt cgacggcatt 180
gttcggtaa 189

<210> 2697
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2697
tgcgcgaatc cttccagccc cgtggtgaag acaccatgcc aagacgctaa gggctctcgc 60
ttcccacacc agcccacaca tacacttttg cacacttttc gaaccttcga ttcttccact 120
caacgagtcg accaatctaa cgccaaaagc agtcgccatg gtatgttgcc agctttttc 180
tacaaaagcc cactacaatc aagaaagaag agttttttt tctaa 225

<210> 2698
<211> 375
<212> DNA
<213> A.fumigatus

<400> 2698
agttctttgt tccgatgccg ttgggacgac gaagaagggg gcggggatgg aaggagcaag 60
aagaacagtg agagacttgg gaacagcatg gctgatggga caacttttct ccaaactata 120
ggcaaggctc gctacactgt ccgtaccttc ggtatccgtc gtaacgaaaa gattgccgtc 180
cacgttaccg tccgtggccc caaggccgag gagatcctcg agcgtggcct caaggtcaag 240
gaatatgagc tgagaaagaa gaatttctcc gagaccggta acttcggttt cggtatcagc 300
gagcacatcg atctcggtat caagtacgac cctggtatcg gtatctacgg tatggacttc 360
tactgctgca tgtga 375

<210> 2699
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2699
tattcagcaa cccacgatat tgacttaccg ttttttcaaa tcagccgcgc aattatgctg 60
aacgaaactg taacagggaa agcagtaaat ctccattctg atgaccgact tcgtgatatt 120
gatatgcccc ctatgcatcg cattaacatc tataaaacat ttttaccaca ggggccgaag 180
gagcgcgaaa ggggcgaa 198

<210> 2700
<211> 243
<212> DNA
<213> A.fumigatus

<400> 2700
acgctcgtaa tgccccgtag tgttccggta actcatcagc atcatctcac tttacgggaa 60
tcctatattg actggatata cgacaacctg atcccggaga ccccaaatgc atacacctgt 120
tacctcatgc atgctcaatc agatatgggc tacgatatag gacatacggc aataggcaat 180
aatattcagc aacccacgat attgacttac cgtttttca aatcagccgc gcaattatgc 240
tga 243

<210> 2701
<211> 351
<212> DNA
<213> A.fumigatus

<400> 2701
gttggtgacc tacggaggga agaaccagac atcaccttcg ctcacatcgt cgatgaacgt 60
ttccccattc tcattgacgg cctgacggtc agcgacatca atgaaaagga gggaaaaacg 120
tacctggata cgacaggatc cattgaggac aagcgaccac tccgccgcga catgccaatg 180
cagttcccga tacgcatggg gctcaagtct catgtcaacc ccggccatgg ctgttgcgtc 240
cggcatgacg ttcgtgtttt cctgtcgagc ccatccagcc ccgtcttggc cgagtctact 300
tataagcaac gtccgtcaag ccgagagtac aaacctacct attatgactg a 351

<210> 2702
<211> 408
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (340)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2702
ccgtctaggg gcgttcctca ctccattcaa gctttcaaca caggggtcga gttccttcta 60
gtcttcgacg atggatcctt ctccgaggat aataccttcc tcgcctcaga agtctttgca 120
cacaatccca gagaagtcct agccaaagac ctgggtgttc ccatcgcctc attcgaaaac 180
cttcccgagg acgaactgta catcttccct ggcaccccag cccccaagga catcgaggcc 240
caaaacgtct cgacggcagc gggaatcgtc cccagaacgc agagctactc gtaccacttc 300
tccgagcagc ccgcccacga agtcgccggc ggatccgtcn agatcgtgga tcccgtcacc 360
ttccccatcg ccagtaattt ctctgcggct gtcgtgaccg tcaagccg 408

<210> 2703
<211> 615
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (81)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2703
caaaagcccc attggaggat ggaacagatt ttttgcggtt ggagggagcg actgttcgtg 60
cagttttcac gcccggccaa ntcggttgac cacatgtgtt ttttacttga ggaggagaac 120
gccctgttca atggggataa tgtgttggaa cacgggatca gcgtggcccc agatctggga 180
cggtatatgg agagtttgga gctgatggca aagttgggct gtgtgattgg ataccccgca 240
catggggctg ttattgatga ccttcctagc aagctggagg aatatatccg gcataaagag 300

atgcgtgtgc aagggatttt gtcagtacta gtgaaggaaa gggagagggt ggagggggag 360
agagggaagg aaggcaggag gaagggcggt atgacgctgc acgaaattgc gagagcaatg 420
tttgggacgg tgccagacga ggtaattgac caggctatgg cgccgtttct gatgcaggcc 480
ttgtggaagc tgacggagga tggaaaagtg ggattcgagc caggagatcc tgtcaagaga 540
aaatggtttg ccgttgcccg tcgaaagacc agaccatcta tccgtaggca gcacgggtct 600
gttacaagtc gatga 615

<210> 2704
<211> 534
<212> DNA
<213> A.fumigatus

<400> 2704
cctgcacagg tgcagatcgt ccttaaactt ggatctgtca gacgctcacg gctagcagga 60
gtcgcctatt caatcggccc agaatggctg cccccgagaa ccatccagcg gtggccggga 120
aagctcatca gtgagctggc caacaaagtg cccactgcaa ttgaatatga atctccttcg 180
cacagcgtca agtcatgggg gtttctctgc aacaccgagg acccggcatc ggacatcaag 240
gagtatttca aactgcacct ggcacctggc gctcaccaag gcggaaagat cactcgggca 300
gaggctcagc gatggctcca ggactatatc cgttgcgtaa gtcagcatgt caccgcacat 360
ttcagagata ctctcccctc ctttgctgct tgcaaggtcg aatgggtatt cagcgtgccc 420
acaacatgga aggatgtccg tatggttgaa gaaacgcgtc acctactgca gcgagcgatc 480
aacatgagca gtccggggag tcccgtcttc accacggggc cggaaggacc agcg 534

<210> 2705
<211> 1530
<212> DNA
<213> A.fumigatus

<400> 2705
atgcacgatc aaatcaaaat taaactatct ttagttatcg attcgctctc caaaaccttc 60
ccagactcgt cgcgagcatc tgcggatctg tggaagttcg ccaaggtgca cgatcgtcgt 120
aactaccagc ttattcgctt tgcgatgaac gttaccagtg attatcgcac cgtcgtcaag 180
gccatcagag aactggcgag acgcattcag agttccaaca attcgtcact gctcgaaacg 240
ttcactccat tgctgtaccg cagcagttct ctgatattta accgaagtca tacgccggcg 300
atcatggagc tctctcggac agacgagcat ggtctcgcca accccgcgca cgagattcta 360
cgggagattt cttctaagaa cccagaagtg ttggaagctc aagttcagga aatgtgcaaa 420
gaccttgagt cgcaggctcc caaggcgaca actaccgctg ccggcgggac cgaagagatc 480
ctcaaggcct gctccgggtt tgcacgaaaa cttgccgata aactccccaa agagcgtaaa 540
ttcttacagg ctcttagaag ttatgctctt cacagcccat cccctcgagc tgccaaacat 600
gccgtttcaa tcctcatggc ggtcgctgat aaaaaggaaa tgtacgcgaa ggatttgatc 660
caagcatgtg tttcgaagtg gaaatacgga tccgatcgtt tcctgacgaa actggcaaca 720
ttgtcgcagc tgaatcttct ggctccatcc gaagcggatg aagaaagtga cgccattatt 780
tcaatcgctg tcaatcagat tcttttaaca aatcgctctc ctgagcccga tgccgggtac 840
tcctggtcag atactgtgga cgaggaaacg gctgctaagg aatgggctct caagatcatt 900
gtcaatcggc tacgagccaa aaaagggtca gacggcgacg acgatttccg tgctcacgcc 960
gtacctgtat tcgaaacatt gaataaactc gtggcaaacg agggcgagtt gtcgaagaag 1020
aaggacacac ccgcagcgca gaaatcacgc cttcgcctcc tggcggccaa gtcgcttgtc 1080
aagctgtgcg caacgatcag tctatgcgac caactgctta gaccgctgga cttcaatgcg 1140
atcgccctag tggctcagga tcccatgtta cccgtgagaa gcggctttat atcccagctc 1200
aagaagagac ttgtgcaaag gtcacatctg agctaccgct ggtacattgt cccctgcctc 1260
cttgcgttcg agccgaatgt tagcttgaag gacagtaccc ttacctggct gcggtctcgt 1320
gcggcattct tctcacagca ggttcagagc agtggccaga aggagactat catggagtcg 1380
atcttttctc gtcttctctc tctcctcgca taccacccag attacccgtc tgccgacctg 1440
gacgaagcga cacaggttcg cgacctgact gattttgcgc gctatatcct cgtcttcacc 1500
acggggctgg aaggatccgc ggaggaacaa 1530

<210> 2706
<211> 834
<212> DNA
<213> A.fumigatus

<400> 2706
cgcggtcttc catcccgtgg tgaagacaca gcgataccca ttccccagac cgtgactaac 60
ggaattgaac tgagcagggt ccttcaaaac tcctacacga ctgccctgat cctagaagac 120
gacgcagact gggatgtggc cctcaaaatg caactccgcg aatttgcccg tggggtgcgc 180
ctgctgaatg gcgaggaaaa cgcacccaaa actgcccccc acggcacgga ctgggatatc 240
ctctggattg gaggctgcgc ctcgggcccc ggggccaacg agacgacttt cttcgccatc 300
ccagacgacc caaccgtccc tagtcccgat aagcgggatg gctggggcgg cccactggag 360
acatggaaac aacagtatcc caacttgccg attggaacaa cgcgcttctt atatcgggcc 420
gaaatgggct gttgtacgta cggatatgcc gtcacaaggg aaggggccaa gaaaatccta 480
gccgcgcttt ccgtggatcg ccttgactgt gctgtcgaca acgccatgag tgacctgtgc 540
gccggcacta acggccgtcg gcagctgaaa tgctttgcta cgtttcctaa tctgatcggc 600
acgtatcgac acgctggtcc ggcatcacgc gactccgata tcaacggtgg cgatgatgcc 660
tcatggcatg aagcgcaagc atggaatatg gtctacagca cgcggctcaa catccatcag 720
ctggtggcgg gcgaaaggca ggtatattcg caacacgaga atgaaaaatc aggcgccata 780
acagagttgg atctagcgga aattcactat ccaaggggag tcttggttgg ctaa 834

<210> 2707
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2707
gcaacgccgc ccaagcagct gcgtggattc cagaaattga tgctccagcc tggccagacg 60
gggcgggcga cgtttaagct gacccggcgg gacctgagct actgggacgt gcagcagcag 120
aagtgggtgg tgcccagtgg aacgttcaag gtgtatgttg ggagctcaag cagggatatc 180
cgggaggagg gctctttcag ggtccgtcgc ggatggtga 219

<210> 2708
<211> 579
<212> DNA
<213> A.fumigatus

<400> 2708
tataaacaat tctggctaaa cccacgggga gcgtctctcc agtggctcgg tctgctgtat 60
gctatttttg cattggcagt ttcgattttg aatacgatag aggaaccagt gccccattca 120
ctgggagatc accaggccgc cacgacccgg ttccgcaaac gtactgtaca atgtttggtc 180
caagcgaact atataactcc tggtagatac aaagttgagg ccctgttttt atatacaatg 240
ggagagttcc tcacaagttg tgatgcccaa gccggagtct cgttcatgct cgggctcact 300
ataaggctcg ccatgcggat ggggtaccat cgcgatcccc gaaatttccc taaaatgtcc 360
gcgtttgaag gggagatgag acggcgtcta tgggctgttg tgagccaact cgataccctg 420
atttcattcc aagtcggact tcctcggaca atccaggcct ggcagcacga cgtggagctg 480
ccgcgaaatt ttcgtttgat gaagattacg atgagaatac gaaaaaactc ccacagtctc 540
ggccagaaac tgagctcact ccgctgtgct ataccatag 579

<210> 2709
<211> 213
<212> DNA
<213> A.fumigatus

<400> 2709
ctggtctcca agtttgactt ggacgagcgg cttgtcctgc tactggactt gccaggattc 60

gcatgcttcg gctactccgg tttctcatgg gaccgttctg gcgactctga agcagaggca 120
gccctctttt ccaagtcctc caagcgacgc ttcagtatct tgcctgttgc atccggagat 180
tgtcagaaca cattttcagc gcccatgagt tag 213

<210> 2710
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2710
gcttcggtta atctttccaa accatcctgg ctttatactt gctactgcgc ctttgaaatt 60
gctgagcata ccttcctttt cctgcacaag atgcatcgct cttcgaacaa ttcgtaccat 120
cagtcttcga gctcccgaag ctcgtccgcc cacagctcta gcagtgcttt cagtcccaat 180
gccaacccta acgaggactg gacaaagatc tcagatcttg ctgaacgtcg acggatacag 240
aatcgcatcg ctcagaggaa ctaccgtaag cagcttcctt actaa 285

<210> 2711
<211> 273
<212> DNA
<213> A.fumigatus

<400> 2711
ttccttcttc agcagcatga cgacctcctc aacattcttg ctagagacca tttccaaggc 60
gataccgagc gctttgcgcc gaacatcaat gtcagggctc gaaagaaccc gaagaatttc 120
catggtaaga tcatccaaaa cgccctcatt gcgacttcta agctgatcaa ctctgtcgag 180
tacaatgagc ttgacattgt tgtcggcttc cttgatgcag agttcgatca atttgcctgc 240
cgcagctttt acggccactg ggttactggt tag 273

<210> 2712
<211> 390
<212> DNA
<213> A.fumigatus

<400> 2712
gtcccgttga accggagttc atcgaaccta tcttatcgtc cgcacggtca tgcctcgaac 60
atcgccacgc atatgttaga aaaaaggcag tttggggccg tggcttccat tttccaacac 120
tccgagtctc taatcccaga cgcgccagag ttgattcaaa cattcctcga atccgagact 180
gatagtacat gcaagcgcaa tgcattcgct gctttgatgt ccatcagcca ccagaaggct 240
cttgaatacc tgggcacaac ttttgacagc attcccaaca ctgatgaact acttcaactg 300
gcggagcttg agttcatcag gaaggatgcg gttcagaaca ctcagaacaa ggtgggtctg 360
ttgtcataca tgcattatac gcgacgctaa 390

<210> 2713
<211> 450
<212> DNA
<213> A.fumigatus

<400> 2713
aagggaaaat acttgcgtct catctttgac ctactagagg cgtcgacaag tacagtggta 60
tacgaagccg caacgtcgct cacggctcta accagtaacc cagtggccgt aaaagctgcg 120
gcaggcaaat tgatcgaact ctgcatcaag gaagccgaca acaatgtcaa gctcattgta 180
ctcgacagag ttgatcagct tagaagtcgc aatgagggcg ttttggatga tcttaccatg 240
gaaattcttc gggttctttc gagccctgac attgatgttc ggcgcaaagc gctcggtatc 300
gccttggaaa tggtctctag caagaatgtt gaggaggtcg tcatgctgct gaagaaggaa 360
ctaggcaaga cggtagatga gcagtacgag aaggtaggga tagttttggt atgcagcaag 420
aatcgaatgc taacaacgta cacagaatag 450

<210> 2714
<211> 345
<212> DNA
<213> A.fumigatus

<400> 2714
agtacgctaa gggaaaccgg aattcgcaac cccttagggg cttttccgaa cccggataat 60
tcattcccat tttgtgcgcc agccatggtt aattcgccaa ggacctccca acacccccaa 120
tggaaaacat ttcgagccaa cattttccgg gtttgtaagg taagtcccgt tgaaccggag 180
ttcatcgaac ctatcttatc gtccgcacgg tcatgcctcg aacatcgcca cgcatatgtt 240
agaaaaaagg cagtttgggg ccgtggcttc cattttccaa cactccgagt ctctaatccc 300
agacgcgcca gagttgattc aaacattcct cgaatccgag actga 345

<210> 2715
<211> 267
<212> DNA
<213> A.fumigatus

<400> 2715
caacgtacac agaatagtga atatcgtcag ctcttgatcc agtcgataca ccattgtgcc 60
atcaagttct ccgagattgc tgctagcgtc gtcgacctcc tgatggattt cattgcggac 120
tttaacaata actcagctgt cgacgtgatc tcatttgtga aggaagttgt agaaaaattc 180
cctaaacttc gtgcttctat cgtcgaccgc ctcgtttcta ctttggtctt caccgcgggg 240
ctgaagggta ctgcagtgca aatcgat 267

<210> 2716
<211> 309
<212> DNA
<213> A.fumigatus

<400> 2716
atcacaaaga cggaatcgct aaactctgga ttcatgcacc ccttttccat cctcactctc 60
ggtatctttg tagcgggcta tatcactgcg cggtgggatc ttgttacgcg gctatacgaa 120
ctggccatct ttgcgtggga tcacggtgtc gtggtgagtg catctcagtt cgctcaaccg 180
gtcctacgtg catttgtgac tgcggaacac aagaccgcag atgcgaagac aattgagcta 240
ataacccttg ttcgcagaca cgaacagcca aaggcttttc gttgctgtca gtctttttt 300
tcctcttag 309

<210> 2717
<211> 954
<212> DNA
<213> A.fumigatus

<400> 2717
cgtccacgga agcaagaccg ccgtggctgc gagatggtca aacccagcag ccagatccac 60
cgtgcttggt ggaaggagtg ctccgtctac cagatctacc cggcttcctt caaagattcc 120
aacgatgacg gcattgggga tattcccggc atcatttcca agctcgacta tatcaaaaac 180
ctaggagtag atatagtctg gctgtgtccg tcctacaaat cccctcaggt ggatatgggc 240
tatgatattt ccgattacta tagcatcgca gacgagtacg gcactgtcgc ggatgtggag 300
aagctaatag aggagtgcca caagcgagga atgaagcttt tgatggactt ggtggtcaac 360
catacaagtg accagcatga atggttcaag aaatcccgca gttcaaagga taacccgtat 420
cgcaactggt acatatggaa gccgccaagg tacgatgagc agggaaagcg tcatccacca 480
aataactgga tctctcattt tcaaggtatg ctcgactggc cgaagaaact cagccagata 540
ctgacagaag caggaagcgc ttggcagtac gacgagctca cggatgaata ctacctccac 600
ctgtatgcca aggaacagcc tgatctcaac tgggagcacc cacctgtgcg cgaggcagtc 660

cacgacatta tgctgttttg gctggacaaa ggagcggacg gatttcggat ggacgtgatt 720
aactttatca gcaaggagca gagcttctct gacgccgatg tcaaagatcc ccaaagtatc 780
tggcaatggg ccgacaaata ctacgccaac ggaccccgcc tacacgaatt cctacagggt 840
ctgggccaga ttctcacaga ttaccaccct ttcagtgttg gtgagatgcc attcgtccaa 900
gacacggaag atgttctgaa ggctgtccgt ttcgaccgcc acgagattaa ctga 954

<210> 2718
<211> 417
<212> DNA
<213> A.fumigatus

<400> 2718
gcggggtccg ttggcgtagt atttgtcggc ccattgccag atactttggg gatctttgac 60
atcggcgtca gagaagctct gctccttgct gataaagtta atcacgtcca tccgaaatcc 120
gtccgctcct ttgtccagcc aaaacagcat aatgtcgtgg actgcctcgc gcacaggtgg 180
gtgctcccag ttgagatcag gctgttcctt ggcatacagg tggaggtagt attcatccgt 240
gagctcgtcg tactgccaag cgcttcctgc ttctgtcagt atctggctga gtttcttcgg 300
ccagtcgagc ataccttgaa aatgagagat ccagttattt ggtggatgac gctttccctg 360
ctcatcgtac cttggcggct tccatatgta ccagttgcga tacgggttat cctttga 417

<210> 2719
<211> 609
<212> DNA
<213> A.fumigatus

<400> 2719
tccccgcggt tcaggaccat ccagttcctt ctcacaacaa tcatgagctc catctctttt 60
ttcagcgaga gctatcgcct atggatccag tccaatttct ggcttatgat ggtctcagtc 120
ttcggcgccc taggcttcat gctcgtcatg tactggaagc gcaagagcta tccggccaac 180
ctcctcttcc tttccgcctt caccctgcta gaagcctact ccatcagcgt cgtgacctcc 240
ttctatgacg cccgcatcgt catccaagcg ctcatcctcg ccctgggcat cttcgtcgcg 300
ctcaccctgt tcgcctgcca gaccaaatac gacttcacga actggatgcc ctacctcttt 360
ggggccctgt ggttcctgat tctcttcggg ttcatgtcgg cgttcttccc gtacaacagc 420
acggcggagc tgatttacgg cggtctggcg gcgctgatct tctcagctta tatcctcgtc 480
gatactcagc tggttatgcg ccattaccat gttgaggagg agattgccgc tgccatctcg 540
ctttacctgg acatcctcaa cctgttcctg gctattctgc ggattttgaa caaccagaat 600
aatcagtaa 609

<210> 2720
<211> 882
<212> DNA
<213> A.fumigatus

<400> 2720
ctgaacgccc cttccacccg tggtgaagac cctcgcagcc tctacgagac acacggcctc 60
tgcagcgccc atttccgcca tgccctgcaa gacgccgcca cccgcttcaa cgccctcacg 120
ccgggaagcg atatccgcat cgcagtgaca ccatatgata tccgcggggg acactatcct 180
gacttccggc acctgcgcaa gacccaaacc ccgttatccg aacacagtat cgatgcgatc 240
ctgatcacgg ggggcgcgcc gggcgtctac gagatcgaca agcggccttg gatgcagacg 300
ctggccaagt tcctccagac ggtgttccgc gagtatcccg ccgtgaggat catgggcaca 360
tgtttcgggc accagttgat tgggcatgcg ctggtcgact ccggggcggg ggacgtgtat 420
gtggagaaat gtccactggg gagggaagtg gggatccaca cagtccagct gaatcgggac 480
tttgtcgatg cgtttccccc tgctctgggc catctgccga acggacaatt gaagattcag 540
atgttccacg gcgatcgggt gatggtcaaa gggggcaccg agggcgtctt gccggagacc 600
gccgcggtct cgctgcccgc gccgtgggtg aatatcggga gcacgcctct ctgtccgatc 660
cagggaatgt actaccccgg ccgggtgctg tcggtgcaag gacactacga gctggacgcg 720

tgcgggatgc agagtatgtg tcttgagttt gcgccgctgc tgggctggac ggactcgaag 780
ctggggttgt tcttggagca ggtgggggac gattacaatg ggagacagga tgattcagaa 840
gcgtttgcgt tggccgtggt ttgctttctg gctggggaat ag 882

<210> 2721
<211> 252
<212> DNA
<213> A.fumigatus

<400> 2721
agattcatcc tcatcgccgt gatcctcgtg ccttttacgc tcttcggaac cagctacgtg 60
tacagcaagc cgttcttcac cggctgggta gtcgtatccc tgatctggat ctgggccagt 120
gtcatcatct gcgtggtata ccccgtcgtc gagagtgccg gcgcgctggg agacatttct 180
agaggactat ggatggacat gaaggcgttg acgggagtga aaaagcagag tttgcagacc 240
aacgccgtct aa 252

<210> 2722
<211> 186
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (84)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2722
catcccgtcg tagaagctgt gcgattaagt cgcggaattt ggaggcatcc tctaaacttc 60
gaggatcagt cgggataccg tccnagtcgc taccccaaac caacatgttc caccccaacc 120
agaccaccaa tgtgcccaaa tgtgatccgc aacttttcta agggttacat gctccatttc 180
aatttt 186

<210> 2723
<211> 462
<212> DNA
<213> A.fumigatus

<400> 2723
cctaactgtg cacagaaccc caacgataaa tccgccacca agcgcagcct ggagtactgg 60
attgagctgg cgaaacttct cgagcggggc ggaatcaacg ccctgttcct ggctgatacc 120
tttggaggac atgacacgta ccaggggaag ctggacgagt gcattcgccg ggcggcgcaa 180
tggcccgtga ctgatccatc gattgtatgt ctttgcccag ccctgaagca cagcacactg 240
ctgacattga ctgcgcagcc catctcggcc atggccgcag tgacgaagca tctgaccttt 300
gccatcacct cgtcgacctc ctccgaggcc ccgttcctgc tggccaagcg gttttcgaca 360
ctagaccata tgacacaggg ccggtttggg tggaacatcg tgacctcgta caaaaagggc 420
ggggttcaag gctatcgggc tggacaagtc catcgagcat ga 462

<210> 2724
<211> 357
<212> DNA
<213> A.fumigatus

<400> 2724
caagaatgcc gatgtgggcg gcacatggta agacactgga ggagaaattg gagcgtagct 60
gaccttgtca ggtttgagaa tacatatccc ggcgtgagat gcgatatccc tgcgcatgtc 120
tatcagtccg gattcgagcc caacacgcaa tggacggaag agtttgctca gggccatgag 180

atccgcgagt attggcagcg tgtcgctcgt aagtacgatg tctacaaata tctccggccc 240
cggcagaagg tgcagaaggt cgtgtggcgg ccggaagaag ccaaatggga agttactctg 300
caggatctgg agagtggaaa ggtattctcc tgttattcag tgaataaaca tgactga 357

<210> 2725
<211> 936
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (286)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2725
gtctacgagg aaaaactcga cgtcgtgatc aacgccatcg ggcatttcaa tgcatggaag 60
ctgcccgact acgagggcat caatgactac caaggcgacc tgttccactc ctccaactgg 120
aatcacaacg tcgagctaaa ggggaaacgg gtcgcactga ttggcaatgg agcatcaggg 180
ctgcaggtac tcccgtcgat ccagcccatc gcagcccacg tcgatcacta cgcccgaaat 240
cgcacttgga ttgccgattc gtttggcact acgggggttc gacgantaga gcctaatcta 300
ttctctccgg agcagctaga gtcgttcaaa gaccccgaga agtatctgaa gtatcgcaag 360
agtgtcgagc agggttactt ctcccgcttc ggggccatct tcaaagactc ccccgagaat 420
aaggagctgc gtgagaaatg gacgaccttg atgctgcaac gtgtgggcaa caagcctgaa 480
ctagcagaca agatcatccc cgactttcca cccaattgcc gtcggcccac gccgggacca 540
ggctatctgg aggcgctcac caaggacaac gtcagctaca tccagacacg gatcaagaag 600
ttcaccagca agggaattgt caccgaagat ggaacagaac gtgaggtcga cgtcgtcatt 660
tgcgctaccg gagccaacgt cgaccacgcg cctcccttca gcatcatcgc caatggcatc 720
gatctgaaga gcgcatggaa accggatggg ctgtacggtc atccttacaa ctatctgggg 780
gttgcaacac cgggctttcc caacctcttc tggattggag gccctcattc caccggacac 840
agcggcagtg tcccgaacag tatcgagaat ctggtcacct atgtcgccaa attcgtccgc 900
aagagtcttc accgccgggg ccgaaggaac agcgca 936

<210> 2726
<211> 342
<212> DNA
<213> A.fumigatus

<400> 2726
ccagccgcct gggccagtgg caaatcatcc accgataaga gagtcattat gtcgacgaat 60
ggtcccattg ctaccgagat gccctttcag aacggaaact tggccgataa gaatggaatt 120
atcagtcagg taaagtctgt tgaaggcgac gaaccgcatc cgccagtaag accgtcattc 180
gagctcgagg aacatcccat cgacgaggtt cgacagatca aggtcggggt tattggagct 240
gggctatcag gtattacagc cggagtattg ctccctgcta agctgcccgg actggatctg 300
aggatctatg acaagaatgc cgatgtgggc ggcacatggt aa 342

<210> 2727
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2727
gttgtctcgt ccttctatgc ccttcgtgtc cggtccttgg aaaatgaatg cactctatct 60
ttacttttag ttcacttccg attctatact aactttgtct gcccctctgt agaccgcgat 120
gttgccgaac gatcgattct tatcaagaac atgctggaag atttgggcga atcggacgag 180
gctattccta ttccaaatgt gagtttgatt tgcacgctgt tcctcttagt gagtgttttc 240
tattctaact ctatccttct tcacaggtca acgaggtggt gctga 285

<210> 2728
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2728
tcttttcatt cgaaactctt attaacgcct gctgcagagt cagatcacga cctcgatact 60
aaaaagattg tcaaaatgac tactgttact ctcacaagct ccgatggcgt tgacattacg 120
gtcggtaagt tgtctcgtcc ttctatgccc ttcgtgtccg gtccttggaa aatgaatgca 180
ctctatcttt acttttag 198

<210> 2729
<211> 237
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (77),(147),(231)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2729
gctgccaact atctcgatat caaagctctc ttggatgtcg gctgcaagaa ctgtgcgaac 60
atgatcaagg gcaagtnccc cgaagagatt cgcaagacct tcaacattca aaacgatttc 120
actcccgaag aggaagatca aatccgncgg gagaacgagt gggccgagga agtaagcttt 180
acgtctctaa ctgcatcgaa tggacccatc gctaacaggg ctgaccctag ncgctaa 237

<210> 2730
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2730
ctctatcctt cttcacaggt caacgaggtg gtgctgaaga aggtcattga atggtgcact 60
catcacaaga acgaccctcc tagcaccggt gacgacgatg actctcgccg caagactacc 120
gatatcgatg aatgggatca gaagttcatg caggtcgacc aggagatgtt gtttgaaatt 180
atcttggtat gtaccagatt gtctaccctt cctgcagaaa aatga 225

<210> 2731
<211> 315
<212> DNA
<213> A.fumigatus

<400> 2731
tatgtagcga ctaccccgcc attttcggtc gctcttaatc agtcctcttg tgttcgtccc 60
agaggtgcat ttgcttgcaa cactgtcaca atggttcaga tcgccagtat cggcgccaag 120
ggcgcgcagg agaaggtgca gatcgcccag gctgaggctc cccagttcga gaaagtcgac 180
tggaaaagag agcctcacct gcgcaagctg tacatgctgt cggcggcgct gatggttgct 240
tcggccacca cgggttacga tgggtatgta ctctgctgtg gagaaagatc tgcaggacta 300
attgcggtcg tatag 315

<210> 2732
<211> 669
<212> DNA
<213> A.fumigatus

<400> 2732
tatgcttgtc aatacttcgc agatgatgga caactggacc cttttcttct cccccagggt 60
gaaggagagc aactggctgg gtctcctggt caacatgttc aatattggtg ccattctcag 120
ttacttcatt acgtatgttc tccagtagcc ccctggccac tgcgccaagg tgattctaag 180
tttctaacgg cgacctccag cccctacgtt gctgatcact tgggccggaa aatcgccatc 240
atcacgggat gctgcttcat ggtcgtcgga ggtgtcatcg gctgtgcttc caacggatac 300
aacatgtaca tcgcttctcg gttcatcctg ggtttcggca acggcctggc ccagatgtgc 360
tcgcccctgc tgctggtcga gattgttcat ccccagcacc gtggtcctgt taccaccatc 420
tataactgtc tttggaacgc cggtgcgctg ctcgtctccg tcattggatg gggtacctcg 480
tacgtcgcga gcgagtggtc ctggccgtcc atcaccttgc tgcagatcgt tccctcggtc 540
atccagctca tgtttatcta ctgtaagtca tcctctggta cccgcgtggt tcctattgta 600
atggctaatc ggaacggccc ccaaaggatc cccgaatctt cccggtttct tcatcaacaa 660
aggaccgcc 669

<210> 2733
<211> 531
<212> DNA
<213> A.fumigatus

<400> 2733
gtggtcaatc gggctaccga acgagtcaag cgctactcca attggggtat attatctttc 60
atgtacccca caccaaacga ggtcaacttt tgcttcagac aacatatatt atcccacgct 120
cctcacacct ctgcaacccc accaaaacac acgcaaggca atggccgact cgaaagacaa 180
actactgtcg caggtcgacg acatcacccc cgacccgccg ccagcctacg atgccagcgc 240
tgcacccacc cctcgtctcc cacgcccacc accgctctcc ctccccgtcc tcaaccacct 300
gcgcaccaaa cgcgtaatcc tcgcctcggc ctcaccccgg cgtcgccaga tcctctccct 360
cctgggcctc cccttcgaag tcatcccaag cgatgccgtc gaggacttcc caaagacaat 420
ggaacccttc gagtacgtcc tcgcaacggc aaccaaaaaa gcccaggccg tgtactccgc 480
cgaaatcaac aacgaggaga agggcgaacc ggcgctgatc ctggcggctg a 531

<210> 2734
<211> 1020
<212> DNA
<213> A.fumigatus

<400> 2734
tacctgccga tgtatacagt acctgatggc ccagaagata agtggtcaat cgggctaccg 60
aacgagtcaa gcgctactcc aattggggta tattatcttt catgtacccc acaccaaacg 120
aggtcaactt ttgcttcaga caacatatat tatcccacgc tcctcacacc tctgcaaccc 180
caccaaaaca cacgcaaggc aatggccgac tcgaaagaca aactactgtc gcaggtcgac 240
gacatcaccc ccgacccgcc gccagcctac gatgccagcg ctgcacccac ccctcgtctc 300
ccacgcccac caccgctctc cctccccgtc ctcaaccacc tgcgcaccaa acgcgtaatc 360
ctcgcctcgg cctcaccccg gcgtcgccag atcctctccc tcctgggcct ccccttcgaa 420
gtcatcccaa gcgatgccgt cgaggacttc ccaaagacaa tggaaccctt cgagtacgtc 480
ctcgcaacgg caaccaaaaa agcccaggcc gtgtactccg ccgaaatcaa caacgaggag 540
aagggcgaac cggcgctgat cctggcggct gataccgtcg tggtggataa tctgtcggga 600
tcgatattgg agaagccgcg ctcggaggcc cagcacatcg ctatgctgaa gatgctgcgc 660
gataatcgca tgcataaggt ttacactgcg atggtggcga tggcgccgct ggagagcgcg 720
cggcagccgg ggtatgcgct tgagacgcac atcgaggaga cggatgtggt gtttgatcgg 780
gatgtgacgg atgatctgat tgtggcgtat gtgcggacga gggaggggcc ggataaggcc 840
gggggtatg ggttacaggg gctggggtca attcttgtgg agagtattca ggggagctgg 900
gataatgttg tgggtttgcc gttgaaggcg gctctgaagt tgattgagaa ggtgatggcc 960
aaggcggatg atgataatgg ggacgaaatg ttggagggtg atgaggaaga ggaggagtaa 1020

<210> 2735

<211> 405
<212> DNA
<213> A.fumigatus

<400> 2735
gcccaagacc gagcacccaa ccgctttact cctcctcttc ctcatcaccc tccaacattt 60
cgtccccatt atcatcatcc gccttggcca tcaccttctc aatcaacttc agagccgcct 120
tcaacggcaa acccacaaca ttatcccagc tcccctgaat actctccaca agaattgacc 180
ccagcccctg taacccatac cccccggcct tatccgcccc ctccctcgtc cgcacatacg 240
ccacaatcag atcatccgtc acatcccgat caaacaccac atccgtctcc tcgatgtgcg 300
tctcaagcgc atacccccggc tgccgcgcgc tctccagcgg cgccatcgcc accatcgcag 360
tgtaaacctt atgcatgcga ttatcgcgca gcatcttcag catag 405

<210> 2736
<211> 750
<212> DNA
<213> A.fumigatus

<400> 2736
caactgagac gcaatcaccg caaaatgtcc ctcaacacag taaccagcgg cctaaaccaa 60
gacctaccca ccgacagcgt caccaaaacc gcctcaggaa cagtcaacag caccgccgac 120
cacatcaccg accagaccat cccaggcgaa tatccctccg acgacaccga caccgaatat 180
gacaagccgg cccccgacat ctccttctca tccatctggt ccgcctccaa gacctggctg 240
ttctcccttt tccccaacgt tctcgaccgc ttcgaaaact ggatcaaggc gctggtcgcc 300
tgggtcctcc ctcccccgcg acaagccaaa atgtacgaag cgattctgaa ccggcccatc 360
gcgtcctcgt tcatcatctg ccagctcgtc tgctgtgggg tcccgctgct ggtcttcctg 420
gcgggtgtgt tcctctttgc ggcggttgcg gtgttgctct gggcggtgct gtcgttgctt 480
ctggcggcgc cgattttgtt ggtcgccagt atgatggggg tgtcgctttg gggatggggc 540
tgggttttgt acgggttggt gaagtttatt gatcagcatt tcctgggggg gatgattact 600
cggttttggt tggcgaatcg gcaggatcag gatggagggg atgggcctga gggtgaggga 660
cagaaggggg aggaggatga gatgacaggg aaggacgaca agagtgagaa gaagagaccg 720
aagaaactgc aagtgaagaa ggatacttga 750

<210> 2737
<211> 555
<212> DNA
<213> A.fumigatus

<400> 2737
cgacgatccg cctcaagtat ccttcttcac ttgcagtttc ttcggtctct tcttctcact 60
cttgtcgtcc ttccctgtca tctcatcctc ctccccttc tgtccctcac cctcaggccc 120
atcccctcca tcctgatcct gccgattcgc caaccaaaac cgagtaatca tccccccag 180
gaaatgctga tcaataaact tcaccaaccc gtacaaaacc cagccccatc cccaaagcga 240
caccccatc atactggcga ccaacaaaat cggcgccgcc agaagcaacg acagcaccgc 300
ccagagcaac accgcaaccg ccgcaaagag gaacacaccc gccaggaaga ccagcagcgg 360
gaccccacag cagacgagct ggcagatgat gaacgaggac gcgatgggcc ggttcagaat 420
cgcttcgtac attttggctt gtcgcggggg agggaggacc caggcgacca gcgccttgat 480
ccagttttcg aagcggtcga gaacgttggg gaaaagggag aacagccagg tcttggaggc 540
ggaccagatg gatga 555

<210> 2738
<211> 858
<212> DNA
<213> A.fumigatus

<400> 2738

aattcagaaa acgccctgca gcttatcacc attcttaaaa agctctgcaa cagcctttcg 60
ctgctttcac ctaagactgg tgacgaaagg cccagcgaga caatcacagc gcttttatcg 120
tccctgcctc cgaatctctt acgccacttc acccccttcat gcagcgcaaa aatacgtgta 180
ctcgatcagt tactccataa cctacgcaca tctacttcag agaagattgt cctcgtctcg 240
aactacacgt cgacgctgaa cttgcttgca aacctgctca actcgctctc tttgcctttc 300
ctgagactag atggctcaac tccagcgcag aaaaggcagg ccctagtcga agatttcaat 360
cgtctacccc caaatcgttg tttcgctttt ctcctctccg caaaagcagg aggtaccgga 420
ctaaatttga taggcgcaag ccgacttgtc ctcttcgacg tggactggaa cccagccacc 480
gacgtacaag ccatggcgcg gatccaccgc gacggccaaa agaggcattg ccggatctac 540
cgcatcttgc tgaagggaag cctggaggag aaaatttggc aacgccaggt aacgaagatc 600
ggactggcgg acagcgtcat ggaacacaaa aacagtgtgg ctcaattctc aagggatgag 660
ctgaaggatc tctttcgtct cgacgaggcg agtcgctgtc agacgcatga gcttctgggc 720
tgcgactgcg gtggattagg gcagatggct ggcccatcga gcaacgacac cagcattcca 780
gccacagatg cggaggactc gccgtccagc gatctctcag acacggacca tgaattcccg 840
gacattccca cactcatc 858

<210> 2739
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2739
atcctatcga ccggtggcaa cgttgagaac atgtcggatc ccgagccttc tgctgcggca 60
tgttcctcct ctccgccaac cgtacagact cctgaatctg ctactttgaa ttatgccttc 120
ctcgtgcact cccagaagac gctcacccag aaccttcccc cgcgagtcga taacaagctg 180
ctcgctcgtc agaagcgccg tcggacaagg tatatatga 219

<210> 2740
<211> 189
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (108)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2740
acatcgagac aagtgatgcg cgtacagtgc agcacagtcc gagatgcgcc tccattttcg 60
attgagcaag gcaagactcg caaaagtgtt ggcatcaaca aggtatanaa tcctatgtgg 120
accattagcg caatttcttt catcctgtca cggaggacac gtagaaacga caacatcttg 180
aacgcattg 189

<210> 2741
<211> 1338
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (40)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2741
caggatgaaa gaaattgcgc taatggtcca cataggattn tataccttgt tgatgccaac 60
acttttgcga gtcttgcctt gctcaatcga aaatggaggc gcatctcgga ctgtgctgca 120

ctgtacgcgc atcacttgtc tcgatgttca tcattctccg caactgggga acctatctcc 180
agtgcagcta acccggagaa cttggcatat ctcaaacgcc gattcttatc agagatcagg 240
cgaaatgcgt tcgaggtttt tctcagacct cgtcaaactc tgatcaaact catctcaacg 300
tccatgagct cttcaacagc ttttccgcag ggcgaggctt ttcgttttgc tttttcgccc 360
aatgctcaga tgatcctctg catcagttct tcaaggattg ttgtcctcga cgtaacttct 420
gattccgctg cggtaaagca tgagctcaaa atatggagac gacccctcaa tgccaccatt 480
ctcgatgatg gctccctcct tgcagttgtc tcttctgatc accaaatcaa tatttacagt 540
ctaactaatg aagaagcttc attgatccaa gaccttaagt tgacagaagt tcccagagct 600
ttggcgcttt cccccagcgg aggcgtcctg gcagtcgcct acagtgacaa aatcgaaatg 660
tacgctatca gagagggagc tctcaccact gaacgcagag ccgtccgctg cgatggggtc 720
gacgcaatct cgttctcttc tgaacgtgtc atgctaattg gctcttcttc tccgagcgcc 780
agtagcagcc tggtgactat aacagtaccc ttctacactg caccagacac tgaatcatcc 840
ccgagagagg tccaagttcg gatgtggacg acccagatcc tcttcccgga tctgatatct 900
ggttacagcc acgcgtgctt gctgccactt cgtgcagagg gcgagggcag ctggattctg 960
gggtatgacc gccggatcag agctttcagg gcgtttgggg tgaccaatgc aaactccgga 1020
acaacgtatt ttgtgggacc catttcggcc aacacattac aggaggcatt gccgacaatg 1080
cttccctccg ctgacggcca aggcgagctt gttgcgttgg ggttccagga ttccggcctt 1140
tgggtgtacg gagtaccaag tcaacttgat attgctcgtt cggctggaga aacgcaagcc 1200
tcgcctagcc cccctcaacg ccattcgatg agaaatttgg gcactctgcc gcataataat 1260
gcactccggt tggagtggac gatcaacaag cccaaaacaa tagtcagcgg acacaagatg 1320
agcgacttgc cgggtatg 1338

<210> 2742
<211> 612
<212> DNA
<213> A.fumigatus

<400> 2742
tgccgcgggt ttttgcgtct cggccgttcg gacccgggta acagactgat tgtctcccat 60
ctctggaccc tcgtcagacg tactcatacc ctcagaacca tgatcctgct ccaagttcgc 120
tggcgcaata tcctgggcct tgacaagaga ggcgtagatc ccgttcttgc gcgccagctc 180
ttcgtgcgtg ccctgctcca tgatcttgcc ttgggacatg accacgatgt tatctgcctt 240
tcggattgtc gcgagtttgt gggcgaccac gatggtcgtt cgattctgca tggcatggtc 300
gagagctttc tgcacggtag cctcagcgtg tgggtcgagc gcgctggtcg cctcgtcaag 360
gaggaggatt ttaggccccg aaatgacgct gcgggcgatg gcaatacgct gcctctggcc 420
acccgaaagg agaccacctc tctccccgat gcgcgtgtgg taccttgcg gcaggttctc 480
gatgaagtcg tgcgcaaagg cgagtttcgc agcctcctga acgagcttca tttggtcatc 540
atgcgacgcg gtctcccatg gggtaccacc gagtccattg gcgatattgt caaacaccct 600
ggcgttgatt ag 612

<210> 2743
<211> 210
<212> DNA
<213> A.fumigatus

<400> 2743
gtaatcgata aatcgtatct gcggttgaac acgttagtta attcagtgat aaagggaccg 60
tctgggtcag gaaagagcac cattatcgga ttgctggaac ggtggtattc cccttgttca 120
ggcagcatct ctttggatgg caaggacatc agtcacctca acctcaagtg gctgcggacg 180
aacgtccgtt tagttcaaca ggcaagatag 210

<210> 2744
<211> 792
<212> DNA
<213> A.fumigatus

<400> 2744
gctatttatt taacgtgtcc agaacaggaa ccggtgctaa tcaacgccag ggtgtttgac 60
aatatcgcca atggactcgg tggtacccca tgggagaccg cgtcgcatga tgaccaaatg 120
aagctcgttc aggaggctgc gaaactcgcc tttgcgcacg acttcatcga gaacctgccg 180
caagggtacc acacgcgcat cggggagaga ggtggtctcc tttcgggtgg ccagaggcag 240
cgtattgcca tcgcccgcag cgtcatttcg gggcctaaaa tcctcctcct tgacgaggcg 300
accagcgcgc tcgacccaca cgctgaggct accgtgcaga aagctctcga ccatgccatg 360
cagaatcgaa cgaccatcgt ggtcgcccac aaactcgcga caatccgaaa ggcagataac 420
atcgtggtca tgtcccaagg caagatcatg gagcagggca cgcacgaaga gctggcgcgc 480
aagaacggga tctacgcctc tcttgtcaag gcccaggata ttgcgccagc gaacttggag 540
caggatcatg gttctgaggg tatgagtacg tctgacgagg gtccagagat gggagacaat 600
cagtctgtta cccgggtccg aacggccgag acgcaaaaac ccgcggcact acgggaccgg 660
gaagatcata gcttgtacaa gaagatagga attatccata atatttggaa tcttttgaga 720
gggatgcctg agctctggat ttggtttgcg gtcacaatgg ctacgtgcat cggaggaggt 780
gagtatctct ag 792

<210> 2745
<211> 291
<212> DNA
<213> A.fumigatus

<400> 2745
agccgaagaa ttacaccggg ggagtacatg acaaacttac tcactacaat gtcatgcgca 60
gctgccgtca accctgggca agccctctta ctcggcaata tcttgagcgt ctttacttca 120
cctaacatgg tcgctcgcgg caacttcatc gcgctaatgt tctttgtcat gtcgctcggt 180
attcttgtca tatacttcat tatgggctgg tcaaccaata cgatcgctca ggtgaggact 240
ttcccacctg tatcaccagc taatttatac cacgatactg accaagtgta a 291

<210> 2746
<211> 690
<212> DNA
<213> A.fumigatus

<400> 2746
ctctgcttgc tgattatttt ccttgccagg caaatgaccc ccttcaccaa caatgctcga 60
tcggatggac ttgttctgcg tcactggcaa agacagtccg aatccgcaaa ggcaccggca 120
cttgaaggag cttcggagat ggaggtcgat caggcgaaag cgggaggagg ggctgcaaca 180
ccagaaaagg aatatccatt tgcgaaatac aatgtcaaac ctcgcgtacc gagacgctac 240
actgacgagg aatacaaccg gcatctgaag agcgatgact ggtcgcggca ggaaactgac 300
tatttgatgg accttgtcga agagtacgac ctccgctggg tggttattgc cgatcgctac 360
gatttccagc ctcaacccat agacgccgaa gcgaatgcga ccgcgctcgt cccggctaaa 420
cagtatcgaa caatggagca gatgaaggcg cgctactatt tcattgctgc atcaatgctg 480
gccctggaac atcccccgtc agaaatgtcc gaagccgaat tcgatttgca cgagaagatg 540
atgaaattcg acccagaccg tgagcgggct cgcaaagaac tcgctgcgct ccaactaaac 600
cgcaccgcag acgaagtacg cgaggagggc atacttttgg aggagctcaa acgcagtctt 660
caccacgggg acggccgacc gcgattgatg 690

<210> 2747
<211> 564
<212> DNA
<213> A.fumigatus

<400> 2747
ttctgttttc tactcacagc aatcagagga agctacggga ttcacgttct accatgtcct 60
gagctcagaa ttgaccactg gtgctgtagt gccaatgggt cgaactgttg cgacaacgcc 120
ttcaaacttc aaatgggcac gctgatgttc tccagtacct cagctgcccc ctcttccaca 180

actacttcta ctatcgctac agacacaggt actactgcca ctactgccac ccccacaacg 240
actactccca cccccacgac gacgaccgcc attataacag aacccacaac ctccagagct 300
gcatcaggcg gctcggagcg ctcggattcg aaaccattga ttgttggcgt tagcactggt 360
gtcgggctgg gtgtgtgtct tgtaacatta ataggagccc tatgtttgca aagacgaagg 420
taccagcgaa gactcaatga gaatcaacac tttggagtca cgtacatgtc gagcggtgga 480
atacacactc gtcctgctgc cgcaccggca gagctaccct cgaaccaagc tccgagagtg 540
ttcgagatgg ggacgggagg ttaa 564

<210> 2748
<211> 489
<212> DNA
<213> A.fumigatus

<400> 2748
ctgcataggc tacagacttg gcttcaccca cagggtctgg gagttacaat acccgatcaa 60
cccgttcagc ccccattccg tgccaatccc gctggtcttg tgtcctccaa acggcgcctt 120
gggcgagacg tcaaagtgcg agttgatcca gacgctcccc gcctcgagct gatcggcgat 180
gcgacgcgct cgcgtcatat ccttgctcca tacggatgcc cccagccccg tgtcggtgcc 240
attcggccgc gcaatgacat cggcctcgtc cgaccacttg agcatcggca ggatcggggc 300
aaacggctct tcttgcacga cccgggccga ctcgggaagg ttatccaaca atgtccgggg 360
ggacgaacta cccccccgag tcccggatgg tgccgccgat ggcattcgtc ctgccttctg 420
cggaaaggct ctgccaaaaa tccctggctt tgttcgtact gcatgctgtt ctggcacggg 480
cccaaataa 489

<210> 2749
<211> 579
<212> DNA
<213> A.fumigatus

<400> 2749
aagttgcacg gggaagttct tcggaggggt ttcccggggg gaagctcggg gggtttgggg 60
gattccctca aggtcggggg gggcacggac cccaaagtat tatttgggcc cgtgccagaa 120
cagcatgcag tacgaacaaa gccagggatt tttggcagag cctttccgca gaaggcagga 180
cgaatgccat cggcggcacc atccgggact cgggggggta gttcgtcccc ccggacattg 240
ttggataacc ttcccgagtc ggcccgggtc gtgcaagaag agccgtttgc cccgatcctg 300
ccgatgctca agtggtcgga cgaggccgat gtcattgcgc ggccgaatgg caccgacacg 360
gggctggggg catccgtatg gagcaaggat atgacgcgag cgcgtcgcat cgccgatcag 420
ctcgaggcgg ggagcgtctg gatcaactcg cactttgacg tctcgcccaa ggcgccgttt 480
ggaggacaca agaccagcgg gattggcacg gaatgggggc tgaacgggtt gatcgggtat 540
tgtaactccc agaccctgtg ggtgaagcca agtctgtag 579

<210> 2750
<211> 231
<212> DNA
<213> A.fumigatus

<400> 2750
acagtcagac aaacaacaca cacgattgaa gtcaaactcc ctctcccccc caccgatact 60
atatcgatat ctaaaagaac acgtccccgg cgtgccccat tgaccattct caatttctgc 120
cccggtatcc tcacggactc ccccacatca ttgcagcctt ttattgtttc cctccccttc 180
ggcactgctt gcttattaag gcccacttgc actacttttg ctagagtctg a 231

<210> 2751
<211> 513
<212> DNA
<213> A.fumigatus

<400> 2751
aacgcccaac agctagctgc tttgcaagct caacagcagg cagcgatggc gggtcgacgg 60
tcccgcccca cctccccagg cattgccatg caaggaggcg cacttgcagc aatgggcttc 120
acatcgcctc agaacaatgg cttcctggcg gcttatgacc cgaacaatcc gttactgggt 180
aatggattgg gtgctctagg tctcagccag tttgggctcg gcggtcatga gggatacctc 240
tcagaccatt ccgaagtcac tcgtggtcgc tctccccggg gtcgccgcgg cagctccaag 300
ccgcccgagg atcccaccga tccgaatctt ctgaaggata ttcccagctg gctgagatct 360
cttcgcttgc acaagtatac ggataacctc aaggatctca aatggactga gctgattgag 420
ctcgacgaca aggctctaga ggagcgaggt gtcaacgctc ttggcgcccg gaacaagatg 480
ctcaaggttt ttctcgctca acttgtgaat tag 513

<210> 2752
<211> 444
<212> DNA
<213> A.fumigatus

<400> 2752
acctttgaat gctggctcac aaatccagca attcttctcg ccggctgcac ctcctccaac 60
ggcctgagca ttgtgtacct ggtttccctg caatacacaa ataccagcac ctcagttcct 120
gatgaccccg tgctggtaaa cccaggcatt gcgggaaaag tctacaacgt gtcgcaccgc 180
aacagcacga tttacgaagt gcgcgccggg tacatgggtc tctgtttgac cctcagcaac 240
agggcgcagt tgtgctctgg tagtgctgcg gcgctggcta gaatggtcca ggccgaggga 300
atacagggga acgacgctgg cgctgccgac cccttgaatc tgatttggat tgcgcagaat 360
tttaaagaaa aaattgtgtt tgatgggttg atgtacgtgc tgtattcgtt cccatggctc 420
tgtctaggtg ggggtatgat ctaa 444

<210> 2753
<211> 276
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (261),(272),(273)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2753
aagaaacggt cccctaacct tgtcaagggc ggtgcggtat ttgcattctc gctcgtcttt 60
caaacagaaa cctacgaacc agtccttcta cagcggcgcg ttgaccagct ccgaaaagag 120
gcgggcgaca tgaccctgcg ttctaaactc gctccgaaca ttagtgccag agacaacttc 180
atccgctcaa ttgtccgacc aacaaaaatg ctttttctct ctcccattgt ggcgatcttc 240
gtcttcaccg ggggatcgag nggcatcagt tnncac 276

<210> 2754
<211> 888
<212> DNA
<213> A.fumigatus

<400> 2754
agaacaaacc tgtatgacta ccagttctct ttatcgtgga ccttttgtgc tgtttcccgc 60
agattgacgc cccctcatct tgtcacttat ccgaaaagac ctcggctgtg tatacaaata 120
aatacagtgc gcaaatcgct gatggactgc agagcgtcac gatcaacagg agctgcggca 180
atgagctgcg aaaagtcaat ctgtcctctg gacctggaaa agaatctggt tgtgcaagtc 240
gagaatccaa catcaggttg ctttgtaaca gactatgtaa cctcgcatgt agtcgattgg 300
gacgggcccg atgattttgc caggccagtc aactggcaca agaagcggaa atggctcaat 360

gtgaccagcg ttgcattcct taccttcctt accccgttgg cttcctcaat ggtagcaccc 420
gccgggggat tggtaatcga gaccttcaac atcaccagtg agtcgctggc cagttttgtt 480
gtatcgatct acctcgtggg gttcgctgtt gggcctctgg tacttggacc cttgtccgag 540
atctatggtc gtcttcggat ctatcaagct tgtaatgccg tcttcatcgt ttggaatgta 600
gcttgtgcgg ttgcaccaaa cgttggttcc ttactggcct ttcgtctttt cgctggaata 660
gcgggaagtt gtccgctgac actgggtgct ggctcaattg cagacctatt tgtaccggaa 720
gaacgaggtg cagccatgtc aatctattca atgggtccgt tgatggggcc ggtggttggt 780
cctattgctg ggggatatct ggccgaagcc gccgggtgga ggtggatttt ctgggttatt 840
tccatggcag tcagtatcct ttctgatata gaagaaacgg tcccctaa 888

<210> 2755
<211> 267
<212> DNA
<213> A.fumigatus

<400> 2755
aacaggagga acgctgactg ggtagaaaac ggcttccacg ctggcgcttt tcagcggtct 60
agcttgaaat acatgctgaa ctatgctcgg gtctatgtcc tctgtgccac catcgctcgc 120
atccaaaaac gaccgtcgtc ggaagttctg gcagatccag agtcagacgc tgtgctgggg 180
ctttggaagt cactggtcga aatcattatg ggccagatgg catggttggt caatgagagt 240
gcttatcggt gccagctcac ctgggct 267

<210> 2756
<211> 312
<212> DNA
<213> A.fumigatus

<400> 2756
gtgtcgaacc gagccttctt ccctctatat ctccaccttt atgtcgtcca attcctcctt 60
ctacccttac tcactcgcag tccgagcaac ttcctcgcta cttttctggg taatacgctc 120
tatctctccg cgctgatcta ctacacctac attacctttc tcgggtacaa tgccctcccg 180
tttttacaca acaccgagct cctccttctt ccgatcctcg tcttgtccat cctctggctc 240
gtgagtctta ttgccggctg gggggtcgtc atgcacggac acagtgtgga gtggctgttt 300
tggggtgtgt ga 312

<210> 2757
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2757
tcaccccaaa acggactcgc cataagcaag tacatgatct atttacaacg gaagacgcac 60
accgagcaga atatcatttc aatgtgccac tttatgcata ttatgcatcc aaaccacgga 120
aagatggacg aaaaccagaa agaaccaaat gacacccatg tacaccaacg ccctgttttc 180
tga 183

<210> 2758
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2758
aacgtggaac ttgccaggaa ctacccgaat tttagtggtg gacctgctat gggcttcgag 60
ttattcactc aaccacttca gcgaagagcg gaaccggctg ccggctacag gggaggcaag 120
agaaagctgg ggagtaccca ctgtatcaat gtcaaattcc cccaagcatt tgacttctcc 180
agcattggat tcatggttca agttaggcaa aactgcccac cgtaa 225

<210> 2759
<211> 519
<212> DNA
<213> A.fumigatus

<400> 2759
gctcttcagt cgctgcatct attgtgctac gatgtccgtc taacgctagt ctatgtacag 60
cacgagagcg gaaaagagct taagctcctg cacttcatct acgaacagcc cgacatcgat 120
gagatcagag gcaacccgca acgggttctg gatctcatcc acaagttcga agagaaatat 180
cgtttcatga atgtgggagc tgccaaaggc aagatcgtca ccgatctcat tgctgaactc 240
aagccacata caatgatcga actgggcggc tacgtaggct actcggccat actgttcggc 300
gatgccgtcc ggcgagctgg cggcaagcgc tatttcagtc tggaactgaa cccggaatat 360
gccgccatcg ccaacatgct gatcgagctg gctggcctgc gggactttgt ccgcattatc 420
gtcggtcgaa gtgacaagtc gctgcacaag ctgttcacca gcggcgaggt caagcagatc 480
gagctcatgt tcctcgatca ctacaagccc gcgtacacc 519

<210> 2760
<211> 699
<212> DNA
<213> A.fumigatus

<400> 2760
ccacgatcca gagccttgtc cttccagcct ggcctggtga agacgatcgc tcacggtatc 60
tttgggtttt ctcatcatga agaatgggga gctggattaa ttacgcacat cggctcgatc 120
gtgcgactgg caatgaggct gggattgcac cgggatccgt cccatttctc caacctgtcg 180
ccctttgagg gagagatgcg ccggaggatc tggagcacaa tcgaccagat tgactgcctg 240
tcgtcctttc atcttggcat tccaacggct gtccggtcgg aggactctga tacaaacgcg 300
ccgcgcaacc tcctcgatac cgacatagaa gaaggcatgt ccgaattgcc acctccaagg 360
ccctttcgg caagtgtgcc aattggttat ctactaacca agctcaaact ttctcgagcg 420
atgagacgtg tcgtcgaatt cctgaattcc gtccagcggc agccgtatga aagggtccta 480
caactcgacc gtgacctcat agaggcatat cggtcgattc ctcctcattt gcaactgaat 540
aactggcata atgcgccaaa cgaacctgca tatgttatgg tgcagaaagt ccagttagat 600
acgctttacc atcaagcagt taccgctctg catcgcaaaa tatctccaag aggcccggac 660
gaaccccaca tttgctctct ctcagcaaag aagcattga 699

<210> 2761
<211> 714
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2761
ctcgggggca ctancgcggt atccgggcgt cctggaggag aagacaggtg tcgaccaaag 60
gcacagatgg atgtgaagaa tcttgcagca ctgcccagca agatggacca agcatttgca 120
aaatacccag acatcgatgc agtgatcatc aacgccggca tccagcgtct cctggacttc 180
aacaccaccg atgtctctgc agctcagtac ccaaccacag acgccatcac cgacgaggtc 240
acaaccaacc tgaccgggcc gaccgtcctg gcacgctgca tcatcgaaca cttcaaagcg 300
tcgcggccga accaaccttg ccttctggcc cttgtgactt caggtctggc gctggtccca 360
gcaaccatgt tccccgtgta ctgcgccaca aaatcagcgc tgcattcctt cacggcgctc 420
ttgagaaacc agctcaagca tacgtctatc agtgtggtcg agattgtgcc cccgtacgtg 480
gagacagaat tagataaaga tcatgtcgat gaagtggcca gacgcatggg tgggacaagg 540

ccgcaggcga tgccggtcaa gcaatacgtt gatcaagtga tgcgagggtt ggaggtcaca 600
gatgcgaacg ggaagatcca gaagtatgtc gctgatggat taccccgtgc tgcggtcgat 660
gcttgggtca cggctctcag tcccatggca aagttgttgc atactgagct atga 714

<210> 2762
<211> 483
<212> DNA
<213> A.fumigatus

<400> 2762
cgcggtatcc gggcgtcctg gaggagaaga caggtgtcga ccaaaggcac agatggatgt 60
gaagaatctt gcagcactgc ccagcaagat ggaccaagca tttgcaaaat acccagacat 120
cgatgcagtg atcatcaacg ccggcatcca gcgtctcctg gacttcaaca ccaccgatgt 180
ctctgcagct cagtacccaa ccacagacgc catcaccgac gaggtcacaa ccaacctgac 240
cgggccgacc gtcctggcac gctgcatcat cgaacacttc aaagcgtcgc ggccgaacca 300
accttgcctt ctggcccttg tgacttcagg tctggcgctg gtcccagcaa ccatgttccc 360
cgtgtactgc gccacaaaat cagcgctgca ttccttcacg gcgctcttga gaaaccagct 420
caagcatacg tctatcagtg tggtcgagat tgtgcccccg tacgtggaga cagaattaga 480
taa 483

<210> 2763
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2763
tttaatatat ttatttctac tactatcttc ctgttagggt taaactatat aagaattagg 60
gctatagtaa acatcttctt tagtgactta aagaccttgg tctattcatc tctctatata 120
aagggagctc ccttatatat cagtactgtt aatggttata ctatatctaa gaagttttat 180
ataaactatt aa 192

<210> 2764
<211> 702
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (30)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2764
cgtggatcct ttgacccgtc gtggtggaan acatacaccc atcctgccat catgtcgcgt 60
tcacgtcttc ccccaactcc ttcaatgtct ggagaattca tcatcaggga acagccctcc 120
gtcgacggtg cggacgcctt tgcattgcct ccagctgccc taagcccagc cagaagcgcg 180
agcgcgagca ggagaccttc caaatcagac tcctcatctt actttcctgc ttctcctacc 240
tcacccgaac tcacaggcgt gggccgcaat gcaaatcctc cccgtcaggc tggtaccaag 300
aggttacttg aagattttga tcttcctcct ccgccgaccc ggacccgcaa gatcattcag 360
atgaagccca agacacaaac tcaggccaag cctgccacaa caaacaccaa gccttcaacc 420
aaggataacg ggaagaacca gcctgccagc aatgcaaaca ccgcagcatc tgccaactcg 480
aagaaaaagc agcctagtgc gacaagcgcc gcaggtcgga aaattgccag gaaaacggcg 540
cacagtctta tcgagcgtcg gcggagatct aagatgaacg aggagtttgc gactctcaag 600
gacatgattc ccgcttgccg gggtcaggac atgcacaaac tttccatttt gcaggtacga 660
tcattcttac tttccaaact aatggctgca agcgatctct ga 702

<210> 2765

<211> 1218
<212> DNA
<213> A.fumigatus

<400> 2765
ctacggttac cctgttttca tggcaactcg cagatgtgtc tcgctttcct cttttgtttg 60
tttcactcgc gcatctccat cttctcagga ccttcggaca taaccttgaa ggatgagccc 120
accacgaaag gtaaccatcc caaagtacac tcccttggcg gagtttatga tgtatctgat 180
gcgaaagtcg tgcaggctat cattataggg gcaggtcccg cggggattct ggctgcgcta 240
cgcctacatg agcacaacca catctcccct acgatctatg aaatccgctc ggagcccagt 300
acccttggag gtgcaatcgg cattccttca aatgggctga gattgttgca tcggctgggt 360
ctctgggatg ccgtgcaagg ccgaggggcc gaaacttcta ctctgtcctt gcatggaatc 420
aaggggcaag tcatcggcca gatggacatg acttcatgga gtcgacagaa gaccggattc 480
ggctatttac ggatccgcag gacggacctg atggacgtcc tgtatgaggc ggctcgtcga 540
gcagacatcc ccatccactt cggcaagcgc ctgacgcaca ttgtggagga tgaccaaacc 600
gttaccgttg ccttttccga tggctccagt gaccacgcag accttctcct agggagtgat 660
gggattcatt cgacagtgcg cagcatctat gtcgacccca gcatggcgcc tgaatactcg 720
ggcatatcaa atgcatattc cctggttccc acttctgatc tagccatcgc ggccgggtca 780
attagtggtc tgaacgcgac tctcaccacg gatgggcttc tggccgtctt gccttgcacc 840
ccaggcggtg agttgatcta ctggttcttt tcacgcgagc tggccatgcc agctagtggt 900
gacacacgcg atggttggga ggaacgtggg aaagagcaag tggaaagcat caaatccacc 960
gtgctcgatc tgattaaaga aacagaagga tcatggggca gcaccatgaa ggaaatgatt 1020
aagcatactg agacgctcca gttctttcca gtctaccgcc tccccacgga tggcaaatgg 1080
tggagagggc ggtgtctact tattggggat gcagcgcacg caatgcaacc acatgccagc 1140
cagggtgttt accatggcgc tggaagatat attcgtgttc tcgtcttcta ccacgagggg 1200
gcgaggcatc cgcgctaa 1218

<210> 2766
<211> 636
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (586)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2766
aggtacactt cgatatcttg ctatcaatcg ccagtctggc tacagccact gcctcagcag 60
gctgtggaaa gccattgccc aatgatcagg gtgccgaagg aatctatcca acggacttca 120
ccacatcaga tgacactctt cggccctata tcatccacat tccgtcgaac tatgacgaga 180
atagagcagt cccgcttact ttctcttttc atgggaggtc aaaaaccgcg gaaagtcagg 240
agcagctttc gcaattcagc aatgaagcgt ggaatccgga tgctattgcg gtttatcccc 300
aggggcttga tgtacgtgtc tcgaactcgt cctaagaggt cattatcaat gtacacacag 360
aaccaatggc aaggagaccc agattcttct ggagtcgacg acgtggcatt caccatggaa 420
atgctcgaca acttcgagaa aagatactgc attgattctt cccgtgtcta tgccgccggt 480
aaatcaaatg gtgggggctt cacaaatctc ctaacctgcg atcccacggc ctttaaaagt 540
attgactatt gcggcatttg cccccgtttc gggtgcttac taccangacg tacccgagga 600
cgcctgcaat cccgacaggg tgccgatcaa ttgtaa 636

<210> 2767
<211> 498
<212> DNA
<213> A.fumigatus

<400> 2767

agctccagtt caatctctgt tgcacttgtt caactaagat caagcacatc aggaaatgga 60
gtatctgata tagatatcat catggccagc ctcagcagaa cattacgacc cttcgctcct 120
cgccgagttc gctggggctc gcctttgtct cccgtaatac ccagacgatt ccttggcatc 180
ccacctcaat ttcttctaga cgaatatatc ccacgatatc aacttctatc gtccgtggac 240
gcagcaaaga aacggtccct cgcttacgct cacctacaga actgcaatct gtgtccccgt 300
cattgcggcg tgaatcggta cgaagagaca ggggtgtgct tgatcggcgc ggaaacggcc 360
aaggtcaatg tcattgcgcc gcaccgaggt gaagagccat gtatacaggg atatcatgga 420
agcgggtctg tatttttctc tgggtgcaat ctgcgctgtg tcttttgtca gaaccatgta 480
cgttctcgag agggctga 498

<210> 2768
<211> 261
<212> DNA
<213> A.fumigatus

<400> 2768
gatattgctc accagcgaaa cggcttcgat ttgacccctg aagaactggc ggagtggtac 60
gtcaaacttc aacaggtggg aaatgtgcat aatatcaacc ttgtcacgcc agagcacgtg 120
gtacctcagg tggctctctc gatcctggcc gcccgtgaca tgggcctgaa gatacccatc 180
atttacaata cgtcttcatt tgactcgctt gcgtcgctcc aattgttgga tagagtgcct 240
cacgccgggg atagtaggta a 261

<210> 2769
<211> 615
<212> DNA
<213> A.fumigatus

<400> 2769
agactgaaac atagcattca gcttgtctca tttattaaga atagccctct tgagaagcta 60
aggtcaatca atgcgaatag tccagtggtt gtacggggca ttgtacagcc gaagaagaca 120
aagggatcgg ataccgagca aagcgactgc tgggaggtgc acattgcgga cattgatcct 180
ctgaatgaat ttcctaaaga cattatcatg actccaggga ctgcatttgc tccagaacac 240
agatatcttc aactgcgctc cgacagtgaa ctccgcgatg ccctgcgatt ccgcgctcaa 300
gtccgcaata tatgcaggga agagctggaa caatgtcggc ctccttttgt ggagatcgaa 360
acgcctcttc ttttcaagtc aacaccagag ggtgctcgcg agtttctagt gccgactagg 420
aggcgtggtc tggcttacgc tttgcctcag agccctcagc aatataagca gatcctcatg 480
gcaagtggga taccaaggta ctatcagttt gcgcgctgtt tccgcgacga agatctccga 540
gcggatagac aaccagaatt cactcaggtg agcattgaaa ctcgttgtcc acttctaaac 600
tgtgatctaa cataa 615

<210> 2770
<211> 300
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (276)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2770
cataagctct tcgctcagct cgatctggag atgtcttttg ctacaggaga ggatgtcatg 60
cggacagttg aagggataat ccggaggctt tggtcctctt tgatgaaaga cgaggccccc 120
tctggaccgt tccggagaat ggcataccag gacgcaatga gccgatatgg gtcagacaaa 180
cccgatacaa gatatggaat ggagattttc aagatcgact atcttctacc tgtcgacctg 240
gtcaacaaga tcggtccgtt gaccgtcttc tccacnaagg gcgaagaatc cgagcatggt 300

<210> 2771
<211> 687
<212> DNA
<213> A.fumigatus

<400> 2771
caacccttca actgcttcat tgctatctgg atcgtatctc ccaaacggat agttacctca 60
agtgagcatc tgttctactg cctagcgcag accacagttc atattgctga accgaagcac 120
agcgccatcc tccagcacaa tcccgacgcg ttcgctattg cgaacgccct ggatcttgaa 180
cgcgctcggg gcagagtacg tggcccgcta catggtatcc cttttactgt caaagataat 240
atcgcgacca aggaccgcat ggagaccacc gctggcagct gggctctctt ggggtcggtg 300
gcgccacgcg acgcatttgt tgtccgacgg ttgcgggaag caggggcgct gttgctgggg 360
aaggccgctc tgagcgaatg ggctgacatg cgatctaaca actactccga aggctattct 420
gctcggggag gtcagtgtcg gagtgcattc aacctcacag tcaatcctgg gggcagcagt 480
tctggctcaa gcgtggctgt gggggccaac cttgtgcctt ttgctctcgg tacagagacg 540
gatggcagtg gtacgtttct cgtatggagc tccctatttc aaacatctct gacggtcacg 600
gatagtgatc aatccagcgc agagaaatgc tgttgttggt ataaagccta cagtgggcct 660
cacatcacgc gacggcgtaa tccctga 687

<210> 2772
<211> 654
<212> DNA
<213> A.fumigatus

<400> 2772
cggtcacgga tagtgatcaa tccagcgcag agaaatgctg ttgttggtat aaagcctaca 60
gtgggcctca catcacgcga cggcgtaatc cctgaatcgc tgcatcaaga tacggtggga 120
gtgtttgcga aaacggtgcg cgatgctaca tatatcctgg acgccataca tggtgttgat 180
ccgcgcgata actacacctt ggcccagaat ggccggacac ccgttggcgg gtatgctcag 240
tacctgagcg atcggtcatc tctcaagggt gctgtgttcg gccttccctg ggaatccgtg 300
tggcgcttag gagatccaga ccaaatatct cagttgatga agctcttgga tttgattagg 360
gctgccggtg ccaccatcat taatggcacc gagttcccgc attaccgtca aattgtgtca 420
ccggatggat gggactggga ctatgggagt agacgtggat atcccaacga atctgagtac 480
acctacgtca aagtcgactt ttacaacaac atcaaagcgt atctctcgga actgaacaac 540
accaatatgc gatctctgga agacttggtc gagtataata aagccaattt cggcatggaa 600
ggcggcttcc ccggtcttca ccacgggggc ggaaggaacc gcgcaatgcg tacc 654

<210> 2773
<211> 231
<212> DNA
<213> A.fumigatus

<400> 2773
tttggcacca aaaagggaaa actcagttgt gatactattc aggaggttaa taggttgctt 60
ttcaaggatt tcagtcctaa caagacggct ggcgtggttt ctggtcagcg tattgataag 120
gttaatttcc caagggtggt cttaaattct tgtaatagta ttcaccatgc actcgactta 180
tcgacaggta gattttatcg cctcatcgcc tggaacttta cagtaatttg a 231

<210> 2774
<211> 693
<212> DNA
<213> A.fumigatus

<400> 2774
tcccagaaga atgcaggaga ccaacttcca agtgtcgtgg atgttcgcaa catgtcggtt 60

gccaaatcta ttgctgccgt gctggtagca ctgttgcctg gtgcgcttgc tcaggcgaat 120
acaagctatg ttgattacaa tgtggaggcg aatccggatc tcacccctca gtcggtcgct 180
acgattgacc tgtcctttcc cgactgcgag aatggaccgc tcagcaagac tctcgtttgc 240
gacacgtcgg ctcggccgca tgaccgagct gctgccctgg tttccatgtt caccttcgag 300
gagctggtga gcaacacagg caacactagc cctggtgttc caagacttgg tctccctccg 360
taccaagtat ggagcgaggc tctccatgga cttgaccgcg ccaacttcac agacgaggga 420
gagtacagct gggccacctc gttccccatg cctatcctga caatgtcggc cttgaaccga 480
accctgatca accagatcgc gaccatcatc gcaactcaag gacgagcttt caataacgtt 540
gggcggtatg ggctggacgt gtacgccccg aatataaatg cattcagatc ggctatgtgg 600
ggaagaggtc aagagacccc cgcgagaaga cgcttactgc ctggccatcg gcgtatgcgt 660
acgagtatat cactggcatc cagggtggtg tgc 693

<210> 2775
<211> 213
<212> DNA
<213> A.fumigatus

<400> 2775
caagcctttt cccaggagga gacattggtt cggtctcgcc tgaagctctg ggcctcattc 60
tactgctttg tccagatcta tggactaata gtgtggttgc taggccagca taatgactcg 120
ttgatgtcgt gtgattacgc tttgactctc atactgggct ttcaacagga tattctcgca 180
aacgtcatct gtctcatgaa tacattttcc taa 213

<210> 2776
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2776
ctccggggtc tacaaaacaa cggagaattg aggctcggca agtcgtggct ctttagtcgg 60
tcatttgaca actggaatat gggcgaattc gctcgtttct ttcccgaatt gggcaaaata 120
ttgatcatgg atacgatgat gatggaacct tggaatctcc acgagactag ctgcttcgga 180
agtccgtag 189

<210> 2777
<211> 432
<212> DNA
<213> A.fumigatus

<400> 2777
tgggggtat cccaacctca agagtttctt ttgggggggc gggcagtccc aactgtaacc 60
ttttataagt tcaagggatt ggtagcccag tcgcgtgaag gaacccctca cgtggagttc 120
aacttacggt ggattgaatc tctcatgaga atccatggtc gttacttcaa ggataattca 180
ggcacgctcg caacagaact gcgtgccata cagcgtgctg ttgatgacat tcgggagaac 240
ttgaggaagt tgacggaaaa gaatttgtac gatctcaatt atctcctctc gaaaccggta 300
cttgcagaca aaattaatgg cgttccgaaa gccattcaag attacgatgc gatactcgtg 360
gacggcgagg atgcgcgcat gtctgatgta gatggagatg atagggaggg ggaatgggtt 420
ggccttgaat ga 432

<210> 2778
<211> 453
<212> DNA
<213> A.fumigatus

<400> 2778
cgagctgaaa attgtttgct tagaacctac gagcgcggtg tgtcctttga tacatttgat 60

aatcccgacg cggcagactt ctcgttgact ttgaactata aacataaagg ctaccagtgt 120
actcgtcgaa gtaggacttt tctctgtggc actgatcaga atgattactc ggattttgcc 180
ctggagtggc tgatcgatga gttggtcgac gatggcgatg agattgtctg tctgcgagcc 240
gttgaaaagg actcgggcct cgcgagcgat gcggaaatcg aggctggaaa gtacagggag 300
gaagccgaga ggctgttcga gcaggtcata cagaagaaca gccaggacga aaaggccatc 360
agcttggttt tggaattggc ggttggtagg gttcaggaca ttatccagcg aatggtacat 420
ctccggacga gaatttggat tgaagtatgc taa 453

<210> 2779
<211> 984
<212> DNA
<213> A.fumigatus

<400> 2779
tcgatgagtt ggtcgacgat ggcgatgaga ttgtctgtct gcgagccgtt gaaaaggact 60
cgggcctcgc gagcgatgcg gaaatcgagg ctggaaagta cagggaggaa gccgagaggc 120
tgttcgagca ggtcatacag aagaacagcc aggacgaaaa ggccatcagc ttggttttgg 180
aattggcggt tggtagggtt caggacatta tccagcgaat ggtacatctc cggacgagaa 240
tttggattga agtatgctaa cacttcaaag atcaggatct acgaacctgc gctgttgatc 300
gtgggaacgc gcggccggaa actcggaggc gtgcaaggct tgctgccagg ctctgtctcc 360
aagtattgct tgcagcagtc gccgattccc gtcattgtcg tccgccccac caccaagcga 420
gaaaagaaaa agaaaaagcg gcaagcagat cctacaaggc gcagttacaa tcagatcctt 480
gaacagagtt cgcgtcgggg tagccgcatc tttgatgcca gttcgagcac cgaaagcaac 540
atctccagac tacccgacga agaggccgcg gttgcagcag ctttgggtct ccctgcctct 600
tataccaatt ctcggagctc actttccatg tcggagagaa gcagcgtcag tcaggaggag 660
ccagtgccgc caaattgggg ctctttgagc gtcactgcca aaagtcgtct tgcggagagt 720
gcagaaacca cggaagatga aggcgcctcg gatgatgata attctgcttc ccagtccggt 780
caacacatcg aagatgtgtc acccaagcac aaggctgcag atgacagtca agctgtttcc 840
aaagaaggtg acgtggcgcc agacagtggt actccgacca caactgggac tccaccacct 900
ctcgaatcca gaaaggtcaa tattccactt attgtcactg aagatatttc gacccatcag 960
aaagataaag gcaacggtgg atga 984

<210> 2780
<211> 1341
<212> DNA
<213> A.fumigatus

<400> 2780
atacctgatc tccaggatat aaaagcgcta tgtgacccgg ttggagggag tatcgcctgc 60
ctacaagtgc aagtgcaaac aattagcatc atgcatctca catctctggt cctcactgtc 120
ggcctagccg cagccgcacc ctcgttcaac ccccgcggca agggtcacga ctctcgtcca 180
gcagtcacta acatccaggt cggacctcgt ccgtactatc tgcttgacgc aatggccgac 240
agcccgctga aaaagaaact ccagtcgtgc tcggagaagc gcatcaagca cgctcccgcc 300
ttctctatct cccaccgtgg tggtccgctc gagtttcccg aacacactcg cgagggcatt 360
ctcgccggtg cgcgcatggg cgcaggcatc atggaatgcg acgtcgcatt cacctcagac 420
cgtcagctcg tctgccgcca ctcgcagtgc gacctgcaca cgacaaccaa catcctcacc 480
atcccgagcc tggcagcgaa atgcaccgtt cccttccagc ccgcggcaaa cggcaagccc 540
gcgacggcca agtgctgcac ctccgacatc accctcgccg agtttaagac cctctgcgcc 600
aagatggacg ggtacaacgc ctcggctacc acgcccgagg actaccagcg cggcacggcg 660
gcgtggcgca cggatctata cgcgacatgc ggcacgctga tagaccacaa cgagtacatc 720
gagcttgtgg accgtctggg cctgcagttc acgccggagc tgaagacgcc ggaggtggcc 780
atgccgttcg gtggcaacta cacgcaagcg atgtacgcgc agcagctcat cgatgactac 840
aaggcgcacg gcatcgaccc gtcgcgcgtg tggccgcagt ctttcctgcc ggacgatatc 900
ttctactggc ttcagcatga gcccaagttc ggcaagcagg cggtctacct cgatgagcgc 960
gtcgataccg acgccggata ccagaaggcc gtggacggaa tggccgacct cgcaaagaag 1020
ggcgtgaaga taatagcgcc gcccattttt gcgctgctga ataccaccgc ggacggggag 1080

attgtgccgt cggcgtatgc ggttgcggcg aagaaagccg gcctggatat catcacctgg 1140
tcgctggagc ggtcggggcc cctgaaggct gcggccgcca agggagagta ctatatccag 1200
tccgtcaagt cgacgatcac tggggacgga gatatgtatc gcattgtgga tgcgttggca 1260
cgaaaggtgg gcgtcaaggg gatattctcg gattggccgg ccacggtgac gtattatgct 1320
gcttgtatgg gattggacta g 1341

<210> 2781
<211> 450
<212> DNA
<213> A.fumigatus

<400> 2781
aaaagaaact ccagtcgtgc tcggagaagc gcatcaagca cgctcccgcc ttctctatct 60
cccaccgtgg tggtccgctc gagtttcccg aacacactcg cgagggcatt ctcgccggtg 120
cgcgcatggg cgcaggcatc atggaatgcg acgtcgcatt cacctcagac cgtcagctcg 180
tctgccgcca ctcgcagtgc gacctgcaca cgacaaccaa catcctcacc atcccgagcc 240
tggcagcgaa atgcaccgtt cccttccagc ccgcggcaaa cggcaagccc gcgacggcca 300
agtgctgcac ctccgacatc accctcgccg agtttaagac cctctgcgcc aagatggacg 360
ggtacaacgc ctcggctacc acgcccgagg actaccagcg cggcacggcg gcgtggcgca 420
cggatctata cgcgacatgc ggcacgctga 450

<210> 2782
<211> 1167
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (235),(410)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2782
ttttttttcc ccccaaagaa atttgttaat aaggttgata gtcccggaaa caaaggttgt 60
tcaaattcgg ggccatttaa ttccccaatc cgggcgccca ttggtaccaa tggtgatttt 120
tgccaaggtt cgcaaagccg ggctttaacc atgtttgtca tgtacgccgc ttcttccaac 180
aaaggtcacc ttttctctcg gtttggcagc gcccgcttcc tgccaagctc aaacnccggt 240
gcgcagatcg agctcctaga cggtactggg atcagcaacg ggtacatgcc tgccaatgtg 300
cgctgcgata actgccttca atggaccggt ggctctctgg atccgtccag cagctcaagt 360
agctggatct gggcagagaa gcagggtccc gcgatcgact ccaacgatcn caggtacgct 420
atcacgcggc atgattcccg cggcgtgcac accatcaaca tgtcacaggc ccgcgcggcc 480
aacgtggatg catcgaaccc gttcgcgggg cagaacgcgg cctcaacccc agagacagtt 540
acaacaggag ggaccacagc ctccgaatca gattcgatat taatagccca tgccgtcctc 600
atgagcgtcg cctttgtcgt gttcttcccg tcctttgcta tctcaattcg catcatcccc 660
aactccacgg tcgtctcgcg catccacgct ccactgcaac tgctcaccct ggctatggcc 720
ctcgctggcc tcggactggg agtctacctc ggcgtcgata caaaccaaat ggacaagtac 780
cacccaatca ttgggctggt cgttgtcggc atgctgctgc tcttccagcc cctgatgggc 840
ttcctccagc atatgcattt ccgtcgcacg ggcgggaaga gcttcttcgc gtacgtgcac 900
cgctggctag gccggacctt gattgccctt ggcatcatca acggcgggtt agggttcctg 960
cttaccaaga atgcgggcaa cgctgccccc aagggcgcgg tcatcgcata ctcggttgtt 1020
gccggcgtgg ttggcctggc gtatattact tttgtgattg tgcttccgtt caggtcgaag 1080
aagagtgctg cgccgcagaa ggtgacatcg ttgaatgggt ccggtgaggg aattgctatg 1140
caggagagga acggtgccag tgattga 1167

<210> 2783
<211> 225
<212> DNA

<213> A.fumigatus

<400> 2783
caggacccct tgatgggacg tcctgcgcag ttcaataatg gattggcgta tactcctcaa 60
caattaggcc ctaagtatgg tggtcagcca cagcagtatc agccgcccgt gggatataat 120
tatgaagcct tccaaacgcc cggaacagca gcgaaacctc ctttcggccg gcgcaaactc 180
caaatcggta tctatggcgt cgtcaccagc cgcaacgcca cgtag 225

<210> 2784
<211> 303
<212> DNA
<213> A.fumigatus

<400> 2784
tttggagtat caacgaacag agctatcagg acaggaaaga cttacttgct taactcagta 60
tcctcaagac tcctgtcgtg cgtctctttg gagtcggagt ctttcctttg tttgcttccc 120
gttgacggat ctgatcaagt acttaatcta cttctgttta cggttgggaa cgctgccaaa 180
caacctttt ataacttttc attctctccc gattgcctcg tcacgattac cccgcctatc 240
tatattgatg atttgatgaa attgacgaat ctttcctgta tcattaccta taccgatccc 300
tga 303

<210> 2785
<211> 537
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (48)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2785
ttcgggacga gtggtctttt tggtatgggc caagcataca ttatcagntc tgacaccttc 60
agaaaatcga tgaacatcgc cctccctgta aggcagccca agaacggcca gtccccgggt 120
cgtgatgatt cgcagcagag caagtcgatc cgcatacttc gtgagcatct ggaggccgaa 180
agagccaaga tgattcagga acagcacaag tcgcccaata gtttggagat tagttttatt 240
gatcgcgcct tgaacaatct gaaggaagcc aaggagaaca tcaagcgtga aacggcggag 300
aaattggacg ctgttcgtgg tcaggcccct gtgaagaacg cggatggaac tatcgccgaa 360
cctcctcggc ttggcgagaa ggatctcaag ttggcagccg actatgagag gaggaggaag 420
gaggaagaag attggaagcg ggaggagagg aatcatgctc gccgcgaggc tcacctgaag 480
gccatggagc tcgaaagaga aaaggcgcgc tcggcattca aggtcaagca aaggtga 537

<210> 2786
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2786
tctgccagct gtgtatgtga tcccaccttg tttggaacga gcaagaacgt tactgactat 60
cttgtacaca agtgggaaga ccctaacatc cgggagctca ccccgcagtt cctgcccatc 120
ttccagtctg tcctctgtgg cgattcggac cagcttgagg actatcgccg tgccgagctc 180
atctag 186

<210> 2787
<211> 258
<212> DNA

<213> A.fumigatus

<400> 2787
tccttccgcc cgtctcgtgt gaaaacgaag acgatcggta tgtatatcct ctatcttttt 60
ctttctgcat attgcacgat ggctgctttg cacaagcatg ccgattccaa tgatgaacac 120
actcgtctac ccagctcact cagacgcgca aaatgcgtgc gtgatgtgaa acacgattct 180
ttccaacgaa acctgaggcc ttcatttcac tgttcttact gttttcatgt catctttgga 240
ttggtattga ccacttga 258

<210> 2788
<211> 750
<212> DNA
<213> A.fumigatus

<400> 2788
catagggcta ctgtcgccga tatcaaccgt aacatggccg agaacctgcg ctactgcggt 60
ccttctctga ttgccaacga gactactctc cacaacgtca tccagatggt cacagacatc 120
atcacgaaga agcacccttg ccagctcgaa tttggccccg aagaggagtc tctcgaggct 180
ggtgaggaga cttctgagtt cgactgggtt gttgttgaca ctgccctcga tgttgtttcc 240
ggtctcgctg cagcccttgg tgagagcttc gccgagctct ggaaggtgtt cgagaagacc 300
atcctgcgct acgccggtag cactgaggct ctggagcgtg ccactgccgt tggtgtcctt 360
gccgagtgca tcaacggtat gggtgctggt gtcactcagt tcactcgtcc tttcctgaag 420
ctgctcatcc accgcctggg tgatgaggat cctcagacca agaccaatgc tgcttatgct 480
gttggccgtc ttgtcgagca ctccaccgca gacgctgaga tcgtaaagga gtatcctact 540
atccttggcc ggttggagtc gtgtctgcag atgaaggtct ctcgccttca ggataacgct 600
accggctgtc tcagtcgtat gatcctgaaa caccgtgagg ccattcctct caaggatgtt 660
ctcccagtcc tcgtctccat cctccctttg aagaacgatt actatgagaa cgaacccctg 720
taccgcatga tctgccagct gtgtatgtga 750

<210> 2789
<211> 1008
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (772)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2789
tggccaaatc gcttactgac taaacacgac tcgtcttgtc tcattccgga cgcgccctct 60
atgatgttac gctccccaat cccgcctgag cgcacctcct cccgatcccc agctccaccg 120
cgcccatcct ttgacgacga actagaacga cctgggtccg ctgggagtga tgcctcttca 180
gttgcatcca atgtgaccac tgtgtctgct attcagagtt ccctcaacaa cttcggtgct 240
gctccagacg cttcctctcc ccggataccc cggacttcta gcaccaacgg cagtggcacc 300
acagacgata acccccggcg cccatccgcc tcatctttga tgccccagaa tgagatgacc 360
agcaggaaga tttccggtcg cgtcgtcccg cccgatctgt cgaggcatcg gccacgacac 420
cactctcaag gcttcttcga gccatccctc ccgacagcgt ccctatcaga tgtaacactt 480
tccgcatcaa gaatcgcagc gcaggctgcg atgcaacagc agtcctccgc tgcgcaacac 540
ccgccgaaac gattgccttc caacgtccag ggccctgatg gaaggggtgg aagcatctcg 600
cccccactcc caccgccaca acaagtgctg gcagcccctg gctccggatc tacctcgggg 660
caatcatatc agaatgggat tggtggcgga aatgctcttg cggctactac agctgccaac 720
gtggtgtttc ctcgaggacc tgcgcttcaa ccggggatgg ctagtgatcc ancgcagccg 780
gagcgtgagc agatgcagaa tggccataag cctaagatga tgtcgttttc gaagccgaag 840
cctttgggaa tcagccgaga ccaggatctt acggtatgga tagggtatac cgtccccacc 900
aaaatggggt ttccgggtct agtggggtta tcccctcctc cgggggtcga acgaatcccc 960

ttccccgaac cactctccga tgttttgttt aacccacgcc tctgttga 1008

<210> 2790
<211> 1209
<212> DNA
<213> A.fumigatus

<400> 2790
cgataccagg cagtcaaaga cttcctgatg caatgcttcc agaaggatcc taatctccgt 60
gtctctgcaa ggaagctcct aaaacaccct tggatcgtga atgctcgtag atcggactca 120
gtggtgccga agaagtctac ggagtatgaa gaagcggtca gaagcgtcca agaatggaac 180
gaggctctgc gatctcctgg tgcgggaact ttacggaagc cctttagaca cgatcgtcag 240
agcccaagtc cccttcgtcg caatcagctg ccatctcgaa acacccccac taaagacgct 300
cttccagccc ccgtcgttag caatgccaaa gaccaatctt tgttgtcgaa cgcaactgcc 360
gaagataact gggatgatga ctttgcaact gccatttctc ccagtgcgct gcagctacca 420
catcttcggc cgcatgacaa tttcggagga atgctttcct ctgaaaagct caaggcattc 480
gcctcactcg atgggaccgt tatcaaatca gagaatagtt ttggagactt caacgactcc 540
tttcggacta ctttgcactg cggagagtcg gatcctctgc agactatccg acctttcca 600
ttcaagcaaa ccggtacgga cgatggattc gcccaaaagt cgccactcca gatggagccc 660
aagaggtcta ctcctttcgt acataacgtc ccaattttga cacaaaatcc tgttccacct 720
tcgagacagg ctcgtccagc ctcgttttac aaggagaact cagtagagga ttattctgat 780
atcataataa ctgacgaaga cgttttaggc cgaaaactta acggtgtgaa agtacgcatg 840
gaggccaata tttatccgaa tgttgatgat tgtttgtctg acctgtttca ggagaccgat 900
gaagagcgat atatctcgaa ttcagcagac cttccgccgt caaaggagat agtccgatat 960
cacacgccct ctcgggatga cgagcaggaa ccccacttac ggaggcagct ctcaaccaag 1020
cgtcatagat cagcggtaga gattcacaga tttgccgaga acgagagaga cgaagacttc 1080
tcggatattc tggggcccga ggaggtcgcc ctagacaagc ctgatagcga tggtagctcg 1140
gatagaagca ccttgatgct taattcacga cactgtcttc accacggggc tggaaggagc 1200
cgcgccaca 1209

<210> 2791
<211> 276
<212> DNA
<213> A.fumigatus

<400> 2791
ccgaactgca tatgcgacac ctgggcgcca tcccgggggg caattcaggt ctgcataaat 60
cccaagtccc gcgcaatctc catccatcca gcgagtgtat ttgaaaagtt ggtcgttcgc 120
aaactagacg ggtactgcat ggaagacacc aacctgcttt atgtcgtcct acggtcattg 180
gggtaccagg tctatcgtac gggaggccga gttagtcgcg cggctgcggc tgggagcaat 240
gcggtggtcg gataccaggc gctgtatgtg ccttga 276

<210> 2792
<211> 222
<212> DNA
<213> A.fumigatus

<400> 2792
gtcggtacag ggtggcgatc tgtcgactgc tccggagctc aaagagcagg ttctgaccaa 60
gatctcgaac atgccaatct tcaaagcgtc attcgccaat atcacacaag aacatgggat 120
cagtttttgg gcgaagtatt ggctgaaagc tgtgtcccgg tcccttggga tgaacatacg 180
gaaaatctcg accgactgct tcgctcattg tggctgggtt aa 222

<210> 2793
<211> 1311
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (3),(6),(1252)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2793
ctnccnctcc gaggtgacga caatgccatt atcctgaagc ggtacaacag ataccctctg 60
atcatcgatc cttcgggtcg cgtcaccgag ttcctgcaga aggaaagcac agataggaaa 120
cttacggtca cgagcttcct ggacgactcc ttcgtcaagc aactggagag tgccctgcgt 180
ttcggtaatc caatcctcat tcaagatgcc gagcacctgg accccatcct caaccatgtt 240
cttaacaagg aatatcagaa gactggtggg cgtgttctca tccagctcgg aaaacaggag 300
attgatttct caccttcctt caaactcttc ctttcgacga gagacccttc tgcgactttc 360
ccgccggatg tgtgcagtag aaccaccttt gtcaacttca ctgtcacaca gagcagtttg 420
cgaacccagt cgctcaacga agtactcaag tttgagcgac cggatgtgga cgcgcgacgc 480
accgacttgg ttaagctgca aggagagttc aagatccatc tccgtcagct cgagaaacga 540
ctgctgcagg cattgaacga atcgcgcggc aacatcctgg acgatgacaa cgttattgag 600
actctagaga ccctaaagaa ggaggcagca gagatctcca agaagatggt ggagaccgag 660
ggcgtcatga cggaagtcga aaatatcacc ttgaactaca acattatcgc tcgctcttgc 720
agcgctgtct ttgctgtatt ggagcagctt catcacatca atcacttcta ccaattttcg 780
ctgcagtact ttgtggatat tttccactcg gtcctctatc agaacaagcg ccttgctgcg 840
gagaaggacc actcggcgcg tgtgcaaatc attctcaagg atttgtttgt tacgacattc 900
cagcggactt ccctggggct ggctcagaaa gaccgtatca cgctggccat gcttctcgca 960
caagctgctc cttacccgat ggacaagacg atcattgata tcattctcga tgagtcggta 1020
cagggtggcg atctgtcgac tgctccggag ctcaaagagc aggttctgac caagatctcg 1080
aacatgccaa tcttcaaagc gtcattcgcc aatatcacac aagaacatgg gatcagtttt 1140
tgggcgaagt attggctgaa agctgtgtcc cggtcccttg ggatgaacat acggaaaatc 1200
tcgaccgact gcttcgctca ttgtggctgg gttaaccttg cagggctgga cnaattcgtt 1260
ccaactgccg aacgtttcat ccaaaccgtc cttgggccaa aaaatccttg a 1311

<210> 2794
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2794
gagaccgaga gagaatctat ctccactttc tactgtaaca gtagccaaaa acatcaaccc 60
agcaacacta acctttacc taccaaattc atcaatccat caattgatca tttcattatt 120
cgattcattc ggcccatcag tcagtccatc tttcttcctc ctcaaccatc tactactatt 180
cggcaataa 189

<210> 2795
<211> 234
<212> DNA
<213> A.fumigatus

<400> 2795
ttccacaagc tcactgtcgc gagcgcggat ggcccagtgg aggaccagtg cgcagctaag 60
ctggtgaaca tgcttggccc ggccgtgtct ctgaaagcat ggatttgggg attgcaatat 120
gcccgccctg ggcagcaagt aagagcaggc tcccaatttc cgaaagacga gtatttctgt 180
catgatatgt ttctgctggg ctctcgaagt atgcaatgtt tacgccagta ttga 234

<210> 2796
<211> 195
<212> DNA

<213> A.fumigatus

<400> 2796
tgtagccact ggcatgggca atatattcta gaagctccga gggacaacta ctggaagact 60
ttgatgctta ttatcattat ctttatctct tacagctcag cgctcagtgc tcattatggc 120
ggtactcata tggagctacc tacagtacct tatcctctgt tatctgcacc tctccacaaa 180
tccagtgatt gttag 195

<210> 2797
<211> 420
<212> DNA
<213> A.fumigatus

<400> 2797
tccccaatgg aggctcttca tcccccggtg aagaccagcg ttacgggaca cgccacagga 60
gcaacggccg tcgtccttat tggcctattc atccagttaa tctcattcgg tatttttggt 120
cttaccgcag tgatgtttta ccggcgcatt atggaagccc cgacaccaca gtgccataat 180
gctgatctgc catggaagag aacccttgaa atgctctttg gtgtcagtgc gctaatcatc 240
gttcgctccg tataccgcgt ggttgaatac tctgtgggct cgaatgggta tctattacag 300
catgaatggc cgatgtatgt ctttgacacc attccgatgc tgacagtgat gattatcttc 360
tacatctggt atcccagtcg aatccagcag ccgagttcct gcgaagatca gcgtaagtag 420

<210> 2798
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2798
aggagaccat gcgtcaacaa gcttttctca cttccttggc tctgggcatc acagttccgc 60
agcaataagc aagcctctag ttctgaaacc tacagcaagt cccccatcct gctcttgacc 120
atatctaggt tccccagcac caagcatagc caactatatc agcaaatgga actcactgcg 180
agctttgtgt aa 192

<210> 2799
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2799
gaagtttatt ctacaatctt ccgccaacca ggttcgtcga tatgtacact gatggatgct 60
cttcaaactg atctatgtcc tagcggtggt gttttcaccc gaagaggcgt catgtgcttc 120
attctcctct tcaatgcttt gctcgcgaag gcagaactta cagcgtcttt cgaaagtcga 180
ccgaatatgc tgaaacacaa aaacttgtat gtgttc 216

<210> 2800
<211> 909
<212> DNA
<213> A.fumigatus

<400> 2800
cttagaccgt ccgggatacc cttctgttcg ctcttaaaac ccgcacacca ggcaaagact 60
cacgcattcc gggggaaagc cgaaaggact atcagcacac atttctctct gcaattgcca 120
agctgttctg gattgaacat gcgctgggca cccaaagtcg gcaacgagct catccgcggc 180
atctcaggag gagagaaaaa acgtgtatcc atcgccgagg ccatgattac caaggccagt 240
acacaatgtt gggacaattc gaccaaaggc cttgacgcca gtactgccct ggaatatgta 300
cagagtctga gaactcttac cgacatggcg aacgtatcca cgcttgtagc cctctaccaa 360

gcttctgaga atctttataa cttgtttgac aaggttatgt tgatcgaaga gggcaaatgc 420
gcatactatg gaagcgccaa agaggcaaag gcatacttcg aacgcctagg gtttgaatgt 480
cccccgcggt ggaccacccc agacttttg acctcggtca gtgatccaca cgcgcggcgt 540
atccaacgtg gatgggatga ccgagttccg agatctggcg aggactttcg aagagtgtac 600
cgcaacagtg atacctacag ggctgcccct caagagatta gccagttcga gaaagagcta 660
gagacacagg agcacgaacg tgcacaggcg aggcaggaaa tgccgaagaa gaattacacc 720
attcccttct atgatcaggt cattgttcta actcgtcgac aatttctgat catgtacggc 780
gacaaacaga ccttggtggg aaaatggtgc attttggtct tccaagctct gatcatagga 840
agtttattct acaatcttcc gccaaccagg ttcgtcgata tgtacactga tggatgctct 900
tcaaactga 909

<210> 2801
<211> 309
<212> DNA
<213> A.fumigatus

<400> 2801
gccctcagct catactctag gccttactcc atggcgacca agcgcaaggc gtcggcgttg 60
aatgccgccg tcgacgacga acccgttgac ccatctgacg aacttgcttt ctactgctta 120
ggcggaggta atgaagtcgg tcggtcatgc catatcattc agtacaaagg gaaaacagtg 180
atggtgtgtt gtgcaatttc cctccttgtt tggcgacaat taactgatgg ccaatatagc 240
tcgatgcggg catgcatcct gcgaaagaag gattctcggc tctcccattc ttcgacgagt 300
tcgacctga 309

<210> 2802
<211> 678
<212> DNA
<213> A.fumigatus

<400> 2802
ggcaaccgct ctaaacccga tttggtaagt tatccaaaag gctggaagaa gaccagctgt 60
tgcgttcctc tccaactcca acgctacttg tactgctctt atccctcacc tctgtcctat 120
ttcagagtga caaggctatg gtatgagatt gctctgtcat tgagcaacct ccctagagct 180
ccttccttcc ccctctccgt catgtcaacg tcctccctgt ccatcgctgt tgatccagtg 240
gctctggtga caacagaatg catcactgtc acctcgtcaa tgcgcaaaca tgcccgctgg 300
gctcattcgt cggttgccgc cattcttggt ggaaatgctt cctcccgggt ttatgagaaa 360
gatacatctg cccctccgag cccccgcaat ggcgcagcct ctccccgtcc ccgttcgaga 420
ctgtctgtca tggatgacga tcatgctttg gccaaccgat ggggcctgag gggtaagaaa 480
ggcaagagca tgcaagataa ccctctgatc tccgcgttta cgcggttacg gagcgactta 540
aaggattgca aagacattcg gaccttcgat acaccggcac tcttgcaccc cttcctgcaa 600
gttacccggt catcctcaac ctcggccctc gatcacctcc cgcgccctga ttgctatcac 660
caagttcttc gcgtataa 678

<210> 2803
<211> 858
<212> DNA
<213> A.fumigatus

<400> 2803
aggattgcaa agacattcgg accttcgata caccggcact cttgcacccc ttcctgcaag 60
ttacccggtc atcctcaacc tcggccctcg atcacctccc gcgccctgat tgctatcacc 120
aagttcttcg cgtataacat cattaaccgc gactcccctc ggctctccat ggccatgcag 180
ctcttgtcgg ccgccataac ccattgtcgt tttgaggcca gtgactccgc tgcggatgag 240
attgttctgt tgaggatcct caaactgatg gagggaatgc tatcccgacc ggagggagag 300
ctgcttggcg atgaaagtgt ctgtgaaatg atggaaactg gcttgagcat gtgctgccaa 360
gtgcgcctct cggaagtgct gcggcgttcc gccgaaatgg cgatggtcaa tatgtgccaa 420

gtgatctttt cacggttgtc gcagctggaa gttacagagt cggtcgattc gggctctctg 480
accacagccg ggaacagtgc cgaacagacg ggccttaaga tggatccctc tgttgatggg 540
aacaccgtaa cctcccaaca tccttccgcc atgggctccg acactgcagg accggaacga 600
gagcgcactg gcggcgatga gccgtccgat caagctgccg gcgggagtgc tgtcgccgcg 660
cctccgaatc cagaggacga tttcgggaac gaagtcgaac cgtattcctt gccttctatc 720
cgggaattat tccgtgtcct catcgacctg cttgatccac ataaccgaca acataccgac 780
cccatgaggg taatggcatt acgggattat cgatgtggct ctggaagtcg caggggctc 840
cattgccaac cctcctaa 858

<210> 2804
<211> 663
<212> DNA
<213> A.fumigatus

<400> 2804
gaccgggcga ccaacgtcag tgatgcgggc agcaacgcgg tccgcagtga ccctggcgag 60
acggccgagt ctaccgtgga tggtgccggc gcccggcgcg agtcgtgggt ccccattcac 120
agcccgggtc ttcgtctgcc tggaccggat gccgagcggc ggcccagcct gccgttgccc 180
ccacgggcct tgcagtcgca gtcgccgtat tcgctcccgt cgttgcagca ccatcccgat 240
ggccctctct acggcacctc gtcaccaagc ctcccatccc ttgctccttc tgcaggggca 300
cccccgtcgc agtatggcca agtgccgccg ccgaaccgtc tccagccatt gaactcgtgg 360
ctcacccgcc aacaagggcc atactcgcag tcgctgcccc cgatcaacca ggcgacctcc 420
catggcctgc cactgctgcc cccgccggga tccgtcaacc atgctgcggc ctcgcccccc 480
gtgacggtgg acggattcga aggtggcgtc tcgaatgcca tgtggtcgac cagcctcggc 540
ggcgatgatg tggtcgcatt cctcgaggga tgcgactatg accagctgtc tagcatgatg 600
ccatccgaag ttggcatccc tactggatgg ttgagcactg tgtggagtga gttctcacgg 660
tag 663

<210> 2805
<211> 759
<212> DNA
<213> A.fumigatus

<400> 2805
aagatactgc aattgccttt gacctgcaat cgcctgttca acgacctggt ttgctgcatt 60
tcacctagtt caaagcattc gagacacaag agcgctgcct ttatatacat ccaccaaccc 120
caacacctct cacaaaagcc ggttgaacca tccggaccag ccaccgagct ccgtgtatca 180
ctagagcgtc atagtctttg ttccctctgc ggctctcttt gcgaccgttg ttttcttttc 240
tgtttgagct gctattcttc ctttgttcta cacactatgc tctctgctgg ggaaaggcat 300
cagccgccta taaataccaa tgcggttgtg gatgcctctc ggactccagt caccaaagtt 360
tctctgaatc acaactcgac cacctcaatg cggtcagaga catccaaagc cgagaacatc 420
caacatatct gggtcgtcac cgggcccgcg ggatgcggga aaagtactgt tggacggatg 480
ttgcagcagg agctgggttt gcctttcctc gaaggagatg atgtaagtac ttgcatccac 540
gcgatatttc ttcatacggc ttcccggcaa aatgcgcaag ttgacctaac acgcacccat 600
acagttccac tcacagacca accgggagaa aatgggcaat ggcattcctc taaccgacga 660
agaccgctgg gactggctca tctccttgcg caaagccgcc atcgaggccc tctccccttc 720
gcaaggtttt caccacgggg gtcgaacgtt ccgcgctaa 759

<210> 2806
<211> 549
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2806
anacgacttc tcgatccccg gttccctgaa aaaatcccgg atgtgttcca ggtttcccac 60
catttcacgg gcgctacata cggcgtcctt tgcaaagtca agcgtcaatg cgccttgcat 120
gtctgggacc attgtgtctc gttccgggag atgaccacat tcctgtcatc ggcggtgtcc 180
ttcgattcca cctttgtcaa taccactctg attggtctgg gacatctgtc gtgcgttctg 240
atccagcatc acgcagatgt tgtccttcca tgtgccgaat actttaatcc gggatgggaa 300
atcgaactag gaacctgcga aggtgccctc cagcatcgcc ggaccttccg tcgaaagatc 360
gaccccgttg tgaacgggat cacgaacatg gacaaatata agccaatcga gacgatcaag 420
acggctaccc cgacggtggt catgttgtca catatccggt atgttcttcg agatttgaat 480
cgcagaatta agttggctga cgtccagcag atatgtcaaa gacatcaaga cggcgatcat 540
ggcaactga 549

<210> 2807
<211> 582
<212> DNA
<213> A.fumigatus

<400> 2807
tccgcctttc ctctctgtga ctatgtggct gatccagtac agtggttgtt catgaactcg 60
tccatttccg aaggtcttcc attagccatg ggcgaggccg ccttgactgg tgtccccgtg 120
gtgtgcaccg acgtcggcgc atcgttctgt gtggtcaccg accgtgcgac tgggaagaag 180
ttcagcgaag tggttgcgcc caatgacgcc atatcccttg ccagcgctca gatcagggtt 240
ctggcattac tgggccaatg gagcgcgttt gccgaggacg aggagggcta tgtgcccccg 300
actttatcac tgcacccttc gcgcgaggag gtagaacaga tcaagcggcg gatgtacgac 360
aaggccgagc agcgtcgcaa actcggcatg ctgggtcgct cgaacgtgta caacaatttc 420
tcgagtgatc ggtacctccg ggaacatgaa cagatgctct ggctgggcaa gtaccagagc 480
cgcagctacg ttgctcgagg gccgggatcg tcgagcaact cccgcaggtt tttcaaggag 540
aaatggaagt cgtcgattct gatcgagcta gacgaaatgc ct 582

<210> 2808
<211> 309
<212> DNA
<213> A.fumigatus

<400> 2808
atcgcagaat taagttggct gacgtccagc agatatgtca aagacatcaa gacggcgatc 60
atggcaactg acctcattgt caatatctgg ggcttcaggg actatcggct gcacatctac 120
ggagacatgg aacgtgcgcc tgcctacgcc tcagagtgtc aggagatcat cgcatcgaag 180
ggcctgcggg agcatgttgt cctgaaagga ttgggcaatc catctgtggt cctccaagac 240
gctgtaagtt gtaatccgcc tttcctctct gtgactatgt ggctgatcca gtacagtggt 300
tgttcatga 309

<210> 2809
<211> 615
<212> DNA
<213> A.fumigatus

<400> 2809
tgtcaggacc gcgataaagt gtgcattctc acaaactata gcaaggacat ctgccagcca 60
tgccccttat atccggtttg gatgagtgac gagaatacgg acgttatgcg acaatttttt 120
gagggactaa gacaagtttg gagtgatgag aaggtggatg aatggtataa cgccatttat 180
ggagatgtct ccgggcctga gaagcctgaa aatctcgtgc ttctcagtcc ggatgcatat 240
ctactattca cgaagggata tattgccttt gagcctgtgg acaaagatcc agagggcatg 300
tggctctcac ttaagctttg gtggctgcag cgagatgaaa aagacaatgt ggactttagt 360

attatcccgc acctcccatc agatctcaac ccatctgagt acggtattgc tctacatgat 420
gtctgcaatg atagtccact cctctccggt aagacaatca ctcttaatac acatgatccg 480
caaaattatc ccctcccgga tacacggatc attgaaatgc agtgggtcct gaatcgtgtg 540
cttgcgttaa gtggttcggt gaagccgaat gccctcgatg agtggcatga agtcgcagac 600
gaggaactca gctaa 615

<210> 2810
<211> 1701
<212> DNA
<213> A.fumigatus

<400> 2810
caaatttccg aagaccttag cgacaagctg agtgacatcc tcacaacgtt ggtggaaata 60
ttcgcccttt cgaccaaggc catcaagcga ggtagactgc tcaagttcac ccgcaacatc 120
ctcctgggca ccgatgacgc catcaaagag gcagtggata aattggataa gttgaccaaa 180
gtggaagcga gcctcgtcgg tgccgaaacc ctggtcgagg ccaaacggac agggcgcgtg 240
gtggacacac tccaaaccac tgtcacgtcg acgaatgtca cagtccagga gacgggaaag 300
gccgtcaatc agatgaccgt gcaggtcacc gaggtgcatg aaatgttagg caacctattg 360
attgcaacca acggcaagga cgaaaagcat ggggacacgg ccaagtcaca gcgcgatctt 420
gtgaggaaga ttttgcaacc atccgcaaca gactcggcac aggattggta tgacagaatc 480
agcaaaaccc gtgtccctgg cacaggagat tgggtaaggc acgaagacgt cttccaaggc 540
tggttggctc gagatctccc ggtcatgttc gtctctggca accctggagc tggtaaatcc 600
tatctttcat cgagcattat caccttcctt aaagaccaat acccgcaggg ggtacaacat 660
ccctcacatg tctccatagc gtacttcttc ttcaaggatg acaaccccgc caccaggtca 720
tttcaccagg ccctgcggga tctcgcccat cagatcagca acaatgatcc ggcatatgag 780
aagtatcttg cggcccttgg ggattatggg agcgtcagga ctttggaaag tgcgtggcgg 840
acccttttg tcaactattt cttaaagaag gaatccatta cgagcagtgt ttatgtcctc 900
ttcgatgcgg tcgatgaggc ctttgaggag gaaagactcg ccttcttaca gcttgccaga 960
gacattctgg actccccgaa tcgcggccgt ttgcagttgg ccatggttgg acggccgcat 1020
atcagcgacc aagtggctga agcactcgaa accaacgtcc cgacaatcca tgtgacaacg 1080
ctgaaaaatt ccgctgatat cgatcgctac atcaaaacta gcattcagaa atcagtgatc 1140
ctgcgacgcg tctcgccagc tctacggaag gagattaccg aaaaactgtc cgcaggtgcc 1200
gagggcatgt ttctgtgggt gaacctgatg ctgcaggagc tggtcaagaa gcgcaacgag 1260
tccagtatcc gtaagtgcct cgagcaggcg cccaagggct tgaaggagat gctgcgccac 1320
gtcctcctga gcttctccgc cagtctgaac gacgaagagt tggaatttct caacgaactc 1380
ctgctctggg tcacctgcgc cgttcgtcct ctgagccttg gcgaggtgga ggcaatcctc 1440
gagttgaagt cagccgaggg agacgggatg atttaccctg aaggtgccct gcgcaaacaa 1500
ttcgctgcct tcttcaacct tgaccgtgag gacggtctga ccacaacgga gctccagacc 1560
atggcaaaga agacatatga gtcggacgac gaagatatga ctaaactgga tagcgatgac 1620
gaagacgcct ttgaagatgt cgaccacctc atagaagttg aatcgaacaa gaagtcgacc 1680
accggcacct ttaaccacgc a 1701

<210> 2811
<211> 450
<212> DNA
<213> A.fumigatus

<400> 2811
cttccgttca ttaagggccc gccgcttacc cgcaataatt tctcattcat cggttcattc 60
ggcatcttcc tgggcatcac cgcacccacc aaggaggagc ccgagttcta cagtctccgc 120
ctctgcgagt accgctggac gctgagcgtc agccgcaagc acgctgagtt cctcgaattt 180
gccctcgaca gcctcgacaa cgcctgtaac ctcgaccacc acgtccccgg caaaccgggc 240
atcgacgagc tgatgaccag cgccgccaaa ccgaccatcc acaaccccc tctgccctct 300
gcttcgcagc tggacgagtc gatgctcgag atggaccgcg cgccggacag cacccgcggc 360
ggcacctcgt ctgtcgtctc gggcctggcc tctccggcta cctccgtcag cgacgaaagt 420
gtccaggagg cctctgttcc tcaattgtaa 450

<210> 2812
<211> 492
<212> DNA
<213> A.fumigatus

<400> 2812
tgggatagca gaggattata cattatgatt gtcgctaggc tttttcacct catccttgtg 60
atctggtgtg cattcagcga tgggtatgat ctcagcgagc gaaagcaacc tcaaggtcgt 120
ctgggcataa cgctcgatta cggccttgca aggaattggc cgccatcaat cgatgataga 180
ggcgcggaca ctcagcggaa ctggttttat agcagccatc tcacattcaa agagccggtt 240
agcacgatca ccgacggcca actttggcaa atggtgaggg atgcattgga cgagatcccc 300
gctgttctga cccagtacgg catttccaaa aacaagggcg gatccaacgt catgacggtc 360
ctcgctttcg gcaatgaaat catcctagct tcttcgaaga agagcgttga tagtttcaca 420
tacgagtttg gtgatggaaa tacccccagt tgccagggct cttcagctct gccaggttgt 480
ttggaaggat ag 492

<210> 2813
<211> 186
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (159)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2813
tttgagcact ctcgcagggg gaaatccgaa gatagaccag atcccagtat gttctacgcc 60
cactgtaagc tagatattga gcgtcttatc tgtggatgcg tcgagccatt tgactatggg 120
caagtggctc aaacgggcga ggataaatat cagaaattnt caaaaccatc caactcgatt 180
agctcg 186

<210> 2814
<211> 1152
<212> DNA
<213> A.fumigatus

<400> 2814
gaacgtcatc cggatgacgt tcctatcatt gcaatgtgcg gttcgggagg tggtctgcgc 60
gccctcgtgg ccggcactgg ctcctatctt gctgctcagg aagtgggatt gtgggactgt 120
gtcacctaca ccgccggcgt cagtgggagt tgttggctgc agactctata ccattcatcg 180
atcactggtc gggattacaa tcgcttggtc gatcatctga agaacagact cggagtgcac 240
atagcattcc cacccaaggc tctcaatcta ctcacaactg cacctaccaa caagtatcta 300
ctcagtggac tggtcgagaa actgaaaggc gaccctggcg cggattttgg cttggttgac 360
atttatggca tgctactggc cgcgagactt ttagtcccca aaggagaact tggagtctcc 420
caccaagatt taaaattgtc taaccagagg tacaatcttt ataatggtgc tcaccccatg 480
cctatataca ccgctgtccg tcacgagatc ccagtgctag aagccgtgga agacgaagag 540
ccgaagaagg aaataacccc tgagaagctt attaaggcgt cacagagaga agcatggttt 600
cagtggttcg agtttactcc ctttgaattt ttctgcgagg agctcggcgc cggtattccc 660
acctgggctt tgggaaggca tttcaatgga ggtcacaacg tggtaccgca tggggaatac 720
ccattgcctg agatgcgagt tccgggattg atgggcgtgt ggggtagtgc tttctgcgcg 780
acgctatccc attactataa ggaggttcga ccgctgctgc gagggatcgt gggcttcggt 840
ggcatagact ctttaattca cggaaagtcc aaagacctga tccgtgtgca tccgatcgac 900
cctgcgacca tccccaatta cgtattaggc atgaaaggtc aattaccgcc ttcttgcccc 960
ggaatcgagt ctgcagagcg agtatctccg gatcatggat gcgggaatga gcaacaactt 1020

gcctatttac ccgtttttac cgacagtccg agatggggat ataattggcg ccttagatgc 1080
ctcccctgga cagaaaggca gaaaaatggg atttctgaag agactggaca cgcccgttca 1140
acgagccatt aa 1152

<210> 2815
<211> 453
<212> DNA
<213> A.fumigatus

<400> 2815
tcatatctta cagttcttat tgtgaccatc ggtgttggta ttcaaaaacg gccatcctcc 60
gtgtcacagg tcggcccttg gtcctctgac ttcaggctca tcaactcgcc atcattcacc 120
gacggtgtgt cagctgtctc atctctgatt tttgcatgct ccgccacccc cgcctatttc 180
tctatcgctg cagaaatgcg cgatccccgt ttcttcactc gagcccttat cattagtcag 240
attggctcga ctctgatata cctcgttatt ggcgttgtgg tatactacta ctgcggatcg 300
catgtggctt cacccgccct aggatcggcc ggtccgatta tcaagaaaat ttcctatggg 360
attgctttgc ccggcctcct tgccaccaca accatcgtta tccatgtgag tccgctcgtc 420
ctcatctaca caacgccggt atacaaatac taa 453

<210> 2816
<211> 270
<212> DNA
<213> A.fumigatus

<400> 2816
gttggatggt tgggaaccgt tgctttgatg atgaagacgc agatcggatt aggtgtcctc 60
tctatccctt ccgtcttcga cactgttggg atgattccgg gagttattct tctctgcatc 120
gttgtctcaa ttgccgcctg gacaagctac gtggttggtg ttttcaagat aaaccatcgc 180
caagtctacg gcattgatga tgcaggtggg ttgatgtttg gagccattgg gaaagaaatc 240
ttcgctacgt cattttgtct ttgtatgtga 270

<210> 2817
<211> 339
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (206),(261),(335)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2817
gacccagtca aagagaccag agcagctcca agtcaccagt ctcgtgttag aagggtcgag 60
atcgaccaat ggcggactta caccttcccc catctcaaat taaccagtgt tgcgctgctg 120
acccagacca tcaccttgcc ccagtcagcg tacctgacct tttttagtga ccctttacc 180
atctccctct gggtgtatca tacttncacg tactatgagg agaacgatat agacaacact 240
gatgacagcc tgcacacaat ncttctcgat ggaagaaaca tgctcgctga gcattcgggg 300
cgacggggca ctgtgcgctc aggtccagga tttcnatga 339

<210> 2818
<211> 1140
<212> DNA
<213> A.fumigatus

<400> 2818
agagtcattg agcagtgtgc gattttgggg attccgaagg aggatatgca caaggtttac 60

tgcgatcgtg agttactact ccctgatttg acttgtggat tgagtgtttc tgattttagt 120
atagcgtgga ctattggcta cgacgagcgt tttgggagtg acgtccgtct gcagcaggcg 180
ctgatgtact accggcccca tgtcgatgac tcccagtaca catatcctct ggacttttgc 240
ccgatctaca acgcggagac taaagagatc atccacatcg atatcccgcc agtacgacgg 300
cccattagta gggcaccgcc aaacaactac caccccgccg caattgagca ggatgggggc 360
taccggacag acattaagcc aatccatatc actcagccgg acggcgtgtc tttcaaggtg 420
gatggacgta ttatccagtg gcagaattgg agtatccacg ttggtttcaa tcaccgcgaa 480
ggcattgtgc tcaataacat cactttcaac gacaaaggaa atgttcgacc aatcttctac 540
cgcctctcct tggcggaaat ggttgtacca tacggcaatc ctgagcatcc gcaccatcgc 600
aaacatgcat tcgatttggg agagtacggc ggtgggtaca tgaccaacag tttgtcactc 660
ggatgtgact gcaagggtgc tatccactac atggacgctg cctttgtcaa ccgtgccggt 720
gccagtacca tcgtaaagaa cgccatttgc attcatgagg aagatgctgg tatccttttc 780
aagcacaccg acttccggga cgagtctatc atcgtcaccc gtggacgcaa actgatcatc 840
tcacacattt tcaccgccgc taactacgag tactgcgttt actgggtctt tcaccaagac 900
ggcaccgttc agcttgatat caaactgact ggtattctca acacctacgc catgaacccc 960
ggtgaggaca ccaagggctg gggtactgag gtctaccctg gcgtcaacgc ccataaccac 1020
cagcacttat tttgtttgcg tatcgatcct aatattgacg gtccaaacaa cactgtcttt 1080
caggtggatg cagaacgagg tccaggagag gtcggaagcg cagagaacaa gtacggcaac 1140

<210> 2819
<211> 699
<212> DNA
<213> A.fumigatus

<400> 2819
aggagcatgc ccaggagaac gctcaggagg aacagcgctg cctgcaggag gttgagcgcc 60
tcatcaagga gttccacaac cccgttgctg ccgttgtcgt cgagcccatc cagtccgagg 120
gcggtgacaa ccacgcctcc cctgccttct tccagggcct gcgcgacatc accaagcgca 180
acaatgtgct cttcatcgtc gacgaggtgc agaccggtgt cggtgccaac cggcaagttc 240
tgggcccacg atcactggaa cctccagact cctcctgaca ttgtgacctt ctctaagaag 300
gctcagaccg caggctacta ctacggtaac cccgctctgc gccccaacaa gccttaccgc 360
cagttcaaca cctggatggg tgacccagcc cgtgccctca tcttccgcgg cattatcgag 420
gaaatcgagc gtttgaacct cgtcgagaac accgccgcca ccggagacta cctcttcgct 480
ggtctggagc gtctggccaa gcagtacccc gagcatctgc agaaccttcg cggcaagggc 540
cagggtacct tcatcgcctg ggacacccca aagcgcgacg agttccttgc caaggccaag 600
ggtgtcggtg tcaacatcgg tggcagtggc gtgagcgctg ttcgcctgcg ccccatgctc 660
atcttccaga aacatcacgg taagcattct gcagtctaa 699

<210> 2820
<211> 666
<212> DNA
<213> A.fumigatus

<400> 2820
cccatgggac taagcgctgc ccggcacatg cgaggtgaaa acttgagcac tggtctcctc 60
aaggtcgctc ccaagggact taaccaggtg ttcacggcca tggccggctc cgatgccaac 120
gagactgcct acaaggccgc gttcatgtac taccgtcagc agcagcgtgg aggaccccag 180
gctgagttca ctgcggagga gctcgagacc accatgaaca accaggcccc cggttccccc 240
cagctgtcca tcctctcctt caagtccgcc ttccacggcc gtctcttcgg cagtctgtcc 300
accacccgca gcaaggccat ccacaagatg gacatccccg cctttgactg gcctcaggcc 360
ccctttccct ctctcaagta ccctctagag gagcatgccc aggagaacgc tcaggaggaa 420
cagcgctgcc tgcaggaggt tgagcgcctc atcaaggagt tccacaaccc cgttgctgcc 480
gttgtcgtcg agcccatcca gtccgagggc ggtgacaacc acgcctcccc tgccttcttc 540
cagggcctgc gcgacatcac caagcgcaac aatgtgctct tcatcgtcga cgaggtgcag 600
accggtgtcg gtgccaaccg gcaagttctg ggcccacgat cactggaacc tccagactcc 660
tcctga 666

<210> 2821
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2821
tgtaattcat cagctatccc aacgttcggt tccattcatc caagtaatgt gttcgaggga 60
tactcttcat tccctactcc cttgttagaa ctcgacctcc ccatttcaga acgacgcgct 120
cttggttcgt ctgttcttca agcagaacac tctgcagagt ccttgccctc acattttaca 180
agcggggaac gaaaggcatc aggatga 207

<210> 2822
<211> 243
<212> DNA
<213> A.fumigatus

<400> 2822
tcccgttttt ctctccttcc actcctcctt cgtccacctt ttactccccc atattcgggt 60
gcaattcttt tcacctcttt ccttcctcct tctccagact acctcagtct tgtcgtcttt 120
tacacgctac tccgtacgac tgtatctctc gacgacatcg ccgcttctat actgaatcaa 180
ctaatcgacc gcttgaatcc ttctccgcac aaagttcacc cggcgagttt tagactacac 240
tag 243

<210> 2823
<211> 264
<212> DNA
<213> A.fumigatus

<400> 2823
ctgcaaccat acaggctgct gaggctcagg ccagccagac cgtccgcgct gctatcaccg 60
gcggtatcct tctctacctt tgtgagtgcc catgaagata tttcctatct gaaggtgccg 120
caggagctaa ccggtcattg tatcagctcc tttcgccgtc gattttgtca agaagttcct 180
ctaaatgtca gttattccat gtcgttggat agctcgttca actcgtttac gacgatggct 240
atggtggaga ttagtcttgc ttga 264

<210> 2824
<211> 819
<212> DNA
<213> A.fumigatus

<400> 2824
cttgtgttca ccaggcggtg ctgttacagg aggttcgttt cgatggccag attgtgcaga 60
ttaaagcggc aggctaactc taccacagta catcgaactg tacccatgca aatcgaaatt 120
gtcaagaaca aatgggacac cggtagtcgc gcgtcgccgt tcagaactta tctgtataat 180
cacgtcgggg atcaggctcc tttttaccag cctactgctg aggacgacga gacgaaatgg 240
gaagaggccc tacgcgaaag acccggctcc ggatatgtgc ccgtcttggt gagagggttt 300
tgggagctcg gcaagcgagc gcaacgacaa aaggatttcc tcacaatggc ccagacccgc 360
ctccatgaga ttaataactg tctcaccgac ctgctatctc gccacgactt gaagatatcc 420
gtcaagatcg ctgactgccg ccggaaacat ctggttctaa gcaagcgctg tctcgctttg 480
gcggcgaaga ctcaagtact caggaaccga gggtatgcaa tggacgaggc agaggaagag 540
ctgaagaaga agcttgcgca gctggagcga tctgtcttta atccctcgct caacgggcga 600
gccgaggaaa tctgggcccg catgttggca atccgagaac actcgaaacg tttgcaggca 660
gaaatggaga aggcgggcgc ttcaacggct gctcaaggtg aggaggaatt ggacgagaac 720
accatgaaaa ctgcaaagaa ggtttgtctg ccccttcaga tcgcactgca ttcaagcgtc 780
cctgtagcca ttttgctaat tcccccagat cttggatga 819

<210> 2825
<211> 678
<212> DNA
<213> A.fumigatus

<400> 2825
aagtcccgcc gtggcggcag ccctggctcg gatgtttcag aagatgagga gggcattgct 60
gcttggggaa cgtccaagaa ggatctttac aacgccgacc aaattgagac tgaagcggat 120
gcgctcgaag aagaggcgga agcaaagcga cttcaacaga agcacctaca agccatgaac 180
gaggaagact ttggctttga cgaaacagaa tgggttgaat ctgacaaaaa ggaagatgca 240
gaagatgagg ctggtgtggt aacggaggtt ctgccgcagg tggagattac agacgacatg 300
agctcagaag agaaactcaa aatcctaaag acgagatatc ccgagttcga accattggcg 360
aaagattttg ccgatcttcg aacaaaacat gccgagctag aaaaagctgc caaggccgtg 420
aaggcgccgg aagacgagga agcgatattg ggaccagctc cggctcccgt catcaaattc 480
cgtgctctgt cagcttacct tggagcgatt agcatgtact tcatgctctt atcgtcatcc 540
caggacgcat ctggaaagcc atgtcccctg ccgcccgctc aactacgagc tcacccagtc 600
atggggtcat tagtcaagtt caagaaactc tgggaaacgg tcaaagatct ttccgttccc 660
gaaccccca aaggatga 678

<210> 2826
<211> 336
<212> DNA
<213> A.fumigatus

<400> 2826
tccagcgtga ttcggtttgg agagcgtcag tcgctgatga atgattgctc ttggtgtcgg 60
gttctcatgt tctcagtcat gtcggactcc aaagcaagga tcatacaagc gtattttaat 120
ggcgacaaac tggtgattcg caagtcaagg ctgtacgact tctctacgcc tgagacattg 180
agctcctcga cgactctctt catgcagtgg atggctagca agacaggagg caacactagt 240
ggctttcctg tggaggactt tgagccattt gaggaggatg atgataccga actatttggc 300
aagaaggaga ttgaaaagat ctctgatgcg ccttga 336

<210> 2827
<211> 615
<212> DNA
<213> A.fumigatus

<400> 2827
gggggtcgt ttgccttcgt tccccgccgt ctgaacagct ttctttcctg tcgttcatgt 60
ttcaacaaca ccgtcctcca cagctggcgg aaccatgacc caatggccat catccgcagc 120
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atcctcctca tctttgacat ctaccctggc tacttctccg tcgcgctcgc cgacgtagga 360
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tactcccgcc tggtcttgcg cgccacgctc gccatgatca tcatcgacgg agtcatcctg 480
cacaccatcg gctgggtctt cgagatgggc gagcagtcgc cccggtccca ttggttcacc 540
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ctctccatca tctaa 615

<210> 2828
<211> 627
<212> DNA
<213> A.fumigatus

<400> 2828
agaaggagcg gggagcggta ttgttgtttt gggacggagg ttgaggagtg gaagggaggc 60
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ttcgaagata taaaaggctg gggtgaacca atgggaccgg ggcgactgct cgcccatctc 180
gaagacccag ccgatggtgt gcaggatgac tccgtcgatg atgatcatgg cgagcgtggc 240
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gcccgtgacc atggcgcacc atcctacgtc ggcgagcgcg acggagaagt agccagggta 360
gatgtcaaag atgaggagga tgtagcccag accgaagggg agaatgccga tcgaggagat 420
gaggagggcc cagaagtaga agccgccgcg cttcttgaag gtggtgaagc acaggacaat 480
gagttcgatg gcattgtacc aggagacggc gatgaagcag gcaatggaga agtcttcggc 540
tacgttcagg tcgttcttgg tgctgcggat gatggccatt gggtcatggt tccgccagct 600
gtggaggacg gtgttgttga aacatga 627

<210> 2829
<211> 1248
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1142),(1197)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2829
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tcgcggctcg tatgggccga ggcggcgatt gtggtccgcg tcgcgcagcg ccaagggatg 180
catcgggatg gtcagcggca gggactgacc ccctttgaga tcgaaatgcg ccgccgactg 240
tggtggcaca tctgcattct cgacatgctc tgctcggagg accaggggac ggatacacag 300
atctggccag ggatgttcga cacgaagctt ccatcgaaca tcgacgggga cgaagtcacg 360
ccggggctaa ccacactgcc acctctgcga cgggggtata ccgatattac tttgtgtatc 420
atccattgcg agatgatgtc taatttgtac tgggccggta agtctctaga cgaggacgca 480
cggcaaccgt ccacgtctga gaaggagaag ctcctatcga cgctggcaaa ccgtctcgag 540
gtgctatatc tgcataactt cgatttggac atcccaatac agtgggtgac ggtcgtgatt 600
gcccgtctca cgctgtccaa gggatggttg gtgcatcgcc tcaacgcctc aacggcgggc 660
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<210> 2830
<211> 267
<212> DNA
<213> A.fumigatus

<400> 2830
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ctccggctct ctgaagacaa gacccaatcc actcttgcac tacctgtaat cactcacttg 180
cagaatgcct tgcgcgacac gccactgacc gcttcgtggg cctacgcgcc atggactctg 240

aagaagcggg gttgtttctg caggtag 267

<210> 2831
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2831
aaactgaaca attggtcctt gctggatccc aacttcccaa ggatccccgt cagctcaccc 60
tggtccgggg ggctgacctt gggttcgctt gatggacttg tacatgccgg gagggccaca 120
aacaaaagaa ctggatgttc ttcctccttg ggcttcgggg aggaacggct tcaaggacct 180
ccttggtga 189

<210> 2832
<211> 240
<212> DNA
<213> A.fumigatus

<400> 2832
cgggtgtgtc tcacagggcg tctcaccgag taccaggtca tcgggcgtca cctgcccacc 60
gaggctaacc ccacgcccaa gctgtaccgc atgcgcatct tcgcgcccaa ccccgttgtg 120
gccaagtcgc gcttctggta cttcttgacc cagctccgta aggtcaagaa ggccaacggt 180
gagatcgtca gcctcaacgt ggtatgtcta ctatgggaaa ggattgttcg gtcaagatga 240

<210> 2833
<211> 369
<212> DNA
<213> A.fumigatus

<400> 2833
gactctggtt acagcacaca gtctgccatg gcgtctgtct ttacagactt caaggaaggc 60
cagcaaaatg ggtctggtcc ttgtttggca gcagctctta cttccatcgc aaccttccaa 120
agccccgatc gcttgctgtc attctacaac ttctctgact tcgaccatat ttcggcagat 180
ctgcgctatt cacttttca agcgaacggc gtgaagcttc caaagcaaga gcagaacggc 240
tgggttgaca tcttcgcagc gtattggaag gccgtaagag agatcgtcaa gtttgaggag 300
tacacacccg ttaagcacct ctgggcacaa ggtctgagag gttggagaaa agtgtggcat 360
actctctaa 369

<210> 2834
<211> 420
<212> DNA
<213> A.fumigatus

<400> 2834
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ctggaatcgc gcggcgttca gcccgtctca tcccatcttg ctggccctgc gcagcatgcg 120
ggcccgtctc aggcgcctcc cccggccctt ggccatggcc ccagcaatct gttcggtgga 180
atcatgacca accaaggagg tagtggtccc ggtcttgccc ctccccctcc ccaggatcag 240
cagcctcccc agcataccct tcaacagcct gctcccgcgg ctcagcaatc agcgccccaa 300
ccgccgcaga gctcctttgg aggatatcag cctggtgctg ctgtgaacgg tatgttcttg 360
ctgtatttac ttatggttct ctggcgtctg accgtgcgat gtctttcgct ttctatgtag 420

<210> 2835
<211> 228
<212> DNA
<213> A.fumigatus

<400> 2835
gccacatgca gtggcccaga caccaccaac atatcaagga attattttcg ctctccttta 60
aatttcggtc ccatcaactt gttcctcttg cattaccctg tcaccactac aactaagatg 120
ggcttgataa ctcataactg gcttcccttc gctctctgta taggatttgc ttacagtcga 180
gctgctatca cgccaggggt cacggaagta gacttgatat ttcccgcg 228

<210> 2836
<211> 243
<212> DNA
<213> A.fumigatus

<400> 2836
tccccaattg cactctcttg ccatccccgt ggtgaagacg gtagagagac aaattggaga 60
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gactggcagg atttctcaaa cctacttttc ctcgtgctgc gaggcattgt cgcaagagag 180
caggaggcat atggccccta cagctattat aagccacgaa ggggtcatta taccatccta 240
tga 243

<210> 2837
<211> 363
<212> DNA
<213> A.fumigatus

<400> 2837
gcattactga cgaattccgg tgcagttaca tgggcccagc gctcatccag ctcagaccct 60
gagcgcaact acctctacgt caacatcaag actcccgatg tcgcgaagtc ggccgcggat 120
ctcaagatca cccctactaa tgtctcattc actggagaga ccaacaaggg cgtaaaatac 180
cacgtctctc tcgacctata cgccgagatc gaccctgaaa acagcaaggt caaccacact 240
gaccgcgagg tcgagctggt attgcggaag aaggagctta aggaggagta ctggccccgt 300
ctggtgaagg acacacagaa gctccacttc ttgaagacgg atttcgacaa ggtatggcgc 360
tga 363

<210> 2838
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2838
gctttactca ttttcgactt aaaagaaggc tgtacgagtc ttgagtatac cgttggcgac 60
ttgttgggga ggcctgagat gcataatctg tggaacgata acctctcagg acataccgca 120
agtctgaatg atataatgaa atacgcttca ttcaattcac ttatcccgcc cgataagttg 180
cgactagttc tgccatag 198

<210> 2839
<211> 1185
<212> DNA
<213> A.fumigatus

<400> 2839
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ctgatttttt tttttctctg tacagaccaa gcatatttca ttgcattttc catcttgatt 120
ctacacaccg atgtctttaa caagaacaat aagcgcaaga tgcaaaagtc ggattatgtt 180
cggaatactc gtggtgaagg cgtatctgat gacgttttgg aatgcattta cgagaacatc 240
gcatacacgc cctttatcca catcgaggat acaccctctc acagtcgtca gcttgcaaaa 300
ccgcgacggc ccttgttcaa gaccccgagt tcagagcatt tgtcgcgcgt atcaagggaa 360

ccggttgacc cctacacgct gatcatggac ggcaagcttg actcattacg gccgagtctt 420
aaggacgtca tgaacttgga agacacatat cgatgtcatg ggacgacagg gccacctgac 480
atcaacagcc tgcatcaggc cttttcgaaa acagctattc tgcagatcgt atcagctcgg 540
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tccgtgacgt cgtgcaattc gcatcgctct gcagacaggg agcctccctc tcccaatccc 1140
gatacccacg tgtcttcacc tcgagggacc ggaccgcaat atgta 1185

<210> 2840
<211> 843
<212> DNA
<213> A.fumigatus

<400> 2840
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gctatgggga tcgtcattgc aggttcctcc ctaggggtg ttatctggcc tattgtcatt 120
aacgagctct tgaaaaaacc caccatccga tttgaatgga cgatgcgcat cgttgggttc 180
atcatgatac ctcttcttgc catttcgtgt ctttgttgtc ggcctcctaa gattccaaca 240
gctacgaaga ggctgcaaga caaaccagac gccaacaagg ctgtgacccc ggagcgggag 300
cctgtgagta ctcccaagac aagattttcg atcttgcgag agcccaaaat gcaggtgact 360
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tatgccgtag cacagggctt ctccaccgac ctgtcattct atacaatatc cattatcaac 480
ggagcgtccc ttttcggtcg cattattccg ggcatccttg cggatcgata tggtcggttc 540
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cttggtctag ccttggtccc tttcataaga aatgctgaca cccttcaagg ccattctctc 720
ccttcaacaa gcttgtgcag cccaaattgc gacaccaaac accttgggct tatcaatcgg 780
tgctgtcatg gcatctacat ccctttcgta tgtacctaca tattatcaca cacgcaaagc 840
taa 843

<210> 2841
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2841
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gttcgggaaa ctatcgccga tcaagttccg aaagctatta tgcaccttct tgtcaaccat 120
agtaaagatg tcgtgcaaaa tagactcgtg agcgagcttt ataaagagga actgttctct 180
gagctccttt atgaggatga tggcatcaag gcggagagag aaaagtgtga aaggctgtta 240
gaaacataca aagaagcagc gagaattgta ggtgaagtgc tgtga 285

<210> 2842
<211> 402
<212> DNA
<213> A.fumigatus

<400> 2842
agcgcttgtc cttccagccc ggtggtgaag attccttcag ggcctgccac taattcaaat 60

gccgtatgcg ggcctcgatt ggatttagga atactgggat attgcttctt gccatccttc 120
atcgcgcata ttcccttgca ggtggcttat ctttttctga atgcgctgac ccaatatcta 180
tgcattcgtg gagttcatct cctctccgcc cagacgtctt cgctgacagt gacggtggtt 240
ttgaatgttc gcaaacttgt ttcgctcctg ttatctatct acctatttgg aaatcagctt 300
tcgccgggtg ttgttattgg ggctatctgc gtcttcgcag gaggtggact ctatggtttg 360
gagggtgccc ggctgagaaa accgattaat aagaaggatt aa 402

<210> 2843
<211> 420
<212> DNA
<213> A.fumigatus

<400> 2843
gaaatgttcg agcccaacat gcgctccctt gcgcaggcct gcgcggccgc gtccaactgg 60
ctctggaact ttctcatctc gcgtttcaca ccgcagatgt tcgccaagat ggagtacggc 120
gtgtggttct tctttgcatc tttgatgttg ctgtccatcg tttttgtgtt cttccttgtt 180
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tggcgtgctc atgcgacggt cctggccaaa ctgcgagaag atgaggaaca gttccggcat 300
gatatcgagg aatcggggta tagcaagact ggtgagcagc aggtggagca cctgttccag 360
gaatcgccca aggtctaccc tgtttttgga atcctcggcc aagtcagcac catttcctaa 420

<210> 2844
<211> 909
<212> DNA
<213> A.fumigatus

<400> 2844
tacggtgtca gtgaaaccct ggctcccagc cacaagcagt ggatcattcc ctttgctgtg 60
cagttgattc catccggtct gctcctcatt ggtgcagttt tcctcaaaga gtctccgcgc 120
tggctgttct cgcgcggacg tcgggaagat gccatcaaga atctctgctg gatccgccag 180
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aaaaaagtca tgtatcgcct cttcctggga agcatgctct tcttctggca aaacggcagt 360
ggcatcaatg ccatcaacta ctatagcccc acggtgttca agagcattgg tctccatggg 420
gcaaacacca gcatgttcag caccgggatt tttggagtcg tcaagaccgt ggtcaccttt 480
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acatgcgctc ccttgcgcag gcctgcgcgg ccgcgtccaa ctggctctgg aactttctca 840
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catctttga 909

<210> 2845
<211> 834
<212> DNA
<213> A.fumigatus

<400> 2845
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tggggcgcgc atgtgcgctg gacgggcccg cagattctca agcagcttcc ggagatcaat 180
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gggatcgtct gtggcccgtc gtcgggattc aatctacagg gattgtttca gctgctgggg 480
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aacgccatca tactgactcc cgcagaatct cagcgcagtc gacatctacc gctacgacga 720
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<210> 2846
<211> 582
<212> DNA
<213> A.fumigatus

<400> 2846
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cgaaacatcg agctcaggcc actttgctgc gtgcttgacc tgagaacggc agcggattac 180
tccacctggc atttgccggg atccgtcaac atccccccttc gcagcctgga ctcgcatact 240
ccaaagccat tcgcagaccc cggcgtgctg gaagcccaat ggctagaact cgagaccctc 300
ttcaagacag aagaggctct gagcaagctc cgtggtcagc atgtcttggt catttgctat 360
catggtgata cggcccgggt agcgaccagc gttctgcgag ccaagggcat cgaggccgac 420
agtctgagag gaggatatca agctctgagg gatcatgggc tgtggggaga gaacgaagtg 480
agcacctgca ctgccaatgg cactagaact ggcagtgaac atatgacgtc gacgatttcc 540
cttgagaggt cccacggtcc taacgcaggg aagaagagcg cg 582

<210> 2847
<211> 1068
<212> DNA
<213> A.fumigatus

<400> 2847
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acggatgtat tccctttttgt ggcgaaatca tcgaatctgt tggttgccag caacagtctg 120
gtagacaaca gcttgtggac catcattgac acccaggata catccaaggt cagggttatc 180
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cagcctggca acaagtatcc gctcgcttat ctgattcatg ggggccctca gggcgcatgg 360
aatgaccaat ggagcactcg atggaatccc gccgtgtttg ctgagcaggg ttacgtcgtc 420
attacgccca atccccgagg tagcaccggg tacgggcaac cattcacgga cgcaatccgt 480
ggttcttggg gaggcctacc ttatatcgat atcgaaaaag gattggacta catcgaggag 540
aatttggact acgttgacac cacgagagcc gtcgcacttg gagcgtctta tggcggttat 600
atgatgaact ggatccaggg ccaccctctc ggccgtcgat tcaaggcgct tgtcacccac 660
gatggtgttt tcagcatgac ttctcagctt gccagtgagg aacagtactt cccactccat 720
gatctgggtg gcccgatctg gaaggtccca gagaactggg agaagtggga tccgtctcgt 780
tttacggagc attggcagac accccatctc atcatccaca atgagctcga ctaccgtctg 840
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ttcctgacct tcccagacga aaaccactgg gtactgaatc cggagaactc tctcgtatgg 960
caccagactg tttttaactg gatcaacaag tatgtcggct tgcctccggt gaacgatgaa 1020
aaatccgacg cttttagctc caaaaaaaac ccttggagaa gcctgtag 1068

<210> 2848
<211> 228
<212> DNA
<213> A.fumigatus

<400> 2848
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atccctaaat tagggattaa tcttataagt atagatagaa tatctaaggc actagggata 120
attactatct ttattaaaaa taaagtatcc ctatataata ataaccagtc tattatggct 180
agatataaga ataatagcct ctattatatt ctatttacca tcctttaa 228

<210> 2849
<211> 1071
<212> DNA
<213> A.fumigatus

<400> 2849
agactggacg gtcctgaatc caaacaaatc tcggcccttt caaaaattcg tgttggccag 60
aagctcaatg atcttcttgt acttgacatt cagagagccc gcagactcat caaagtgtcg 120
gctagagcga gtctcaagaa agcagccaag caaggatctc tcccggccaa gtttgaggac 180
atccaagaag gcgctgaagt cactggtttt gtccgaaaca tcacatccga cggtctgttt 240
atcgagttcc tcggtggcat tattggattg gtacctaaga gactcttagc ggacgagaac 300
gtcaataaac ctgattatga catggtcaaa tcgcagcttg ttactgcaac tgtccactcc 360
atcgaccgag acttccaaag gttcatcctg agcatgaagc cttcggaagc aacctcagct 420
ggtccaaaga aacccgctcc caagcctact ccctcgaacg atgaggtcac caatgctgtg 480
gacgaaagca tcaagtcgat gtctgatttc acctttggca ggactgtgaa ctgtaaggtt 540
gtatctgtca aggcaaccca agtgaacgtc caacttgcag acaacattca aggtcgcatt 600
gacgtctccg aggtcttcga taagtgggaa gacatcaagg atcgcaaaca accgttgcga 660
tttttccgcc ccaagcaatt aatctcagct agaatcctgg gaatccatga tgcgcgcagc 720
cacaaattcc ttccaatcag tcaccgctct gggaagttcc ccgtgtttga actttctgtt 780
aagccaagtt tcctacaggc cgccaatcct tccccgttga acttggagca agtccaggtt 840
ggctcaacct gggtcggttt ccgtcaacaa aggttgctga agcatggtct ccggattcaa 900
cctccccacc caatgtttcg cggaaagact acgttttcct gggacgcctt ccgaatgact 960
tgttctcctt ttgggcgaat ttggaaaaac tcctttcccc aatccggtcc aaccgctaaa 1020
aagtgtcatt tttccggccg ttggaaaccc caaaaaaggg ttccctttaa a 1071

<210> 2850
<211> 555
<212> DNA
<213> A.fumigatus

<400> 2850
tcgaagccta ccccaacgcc aaagtcattc tgtcaacccg tgatgtggac tcatggcatg 60
cgtatgtgct gctgtacaag tctattcaga agagagttta agtctaacaa attctgcagt 120
tccgtcatga agaccgttta ctggcgtgtc accgatcccg aacaccgttt cgtttcccac 180
ttcagttggg ccgccagcat gtactacccc atgctgaaca agttcttcga gacgttcttc 240
cgcggcgact tccccaacaa aggcaagcag gtctaccttg atcacgtgga ggaggttcgc 300
agcctggttc ctccggagag actgctcgag taccagatta aagatggctg gggaccgctg 360
tgcgagttcc tgggcgagga ggtccctgac acccccttcc cccgtgggaa cgatatggca 420
gacttcttca accgctgccg cactcgcaac cggcgccaga tgatgaacgc cgctctgcaa 480
gcttttacca tgggtggagc cttgctggcg actggggttg ctgctgccat ggtgttcaag 540
cgcttctccc ggtaa 555

<210> 2851
<211> 351
<212> DNA
<213> A.fumigatus

<400> 2851
attcaagcct tatgccagcc ttctgacggt ttactagccc tccgcaaggc tcttgagaga 60
ttgggatatg tcaaatgcta ccacatgatg tccgccagtg tggagaaccc tcctgactgt 120

ctgatgtggc acgatgctct ctgcgccaaa tacgacggtg tgggcgagtt tggcagaaag 180
gaatgggatc agttgctggg agactgccag gtatgcttgg acgatcgaag agatagaaga 240
aatgcaaccg ctgatccctc tccaggctgt ctgcgactgg cctgcttgtg ccttcgccga 300
agagttgatc gaagcctacc ccaacgccaa agtcattctg tcaacccgtg a 351

<210> 2852
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2852
tgtggcacga tgctctctgc gccaaatacg acggtgtggg cgagtttggc agaaaggaat 60
gggatcagtt gctgggagac tgccaggtat gcttggacga tcgaagagat agaagaaatg 120
caaccgctga tccctctcca ggctgtctgc gactggcctg cttgtgcctt cgccgaagag 180
ttgatcgaag cctaccccaa cgccaaagtc attctgtcaa cccgtgatgt ggactcatgg 240
catgcgtatg tgctgctgta caagtctatt cagaagagag tttaa 285

<210> 2853
<211> 321
<212> DNA
<213> A.fumigatus

<400> 2853
ctgataagta tcatggtcat cttcatttcc tctctgatgg tcgttgccac aaatcaaagt 60
ttcatcttca tgaagaccac cctctctgcc atgattgacc tggatcgact cgtgcatggt 120
gtcggtagta cttgcgattt cagactctta gggccgtggc tcgatggcca cgaagccgag 180
gaacggagac cgctgagtgt gatgcggtct tttgttcata tgctaataat ggtcggatac 240
cttaagatga tcttcgactg gttccagtcc agcttggcag atagtacgta tcagttcatt 300
aacagcagtg caaagcgata g 321

<210> 2854
<211> 201
<212> DNA
<213> A.fumigatus

<400> 2854
tgccccctcg gtatctgtca cctagtgagt gtggctgggt tttctcccat aagcacaact 60
aacggctaca gtgacaatgc cggtatccta ggtatcaccg tcaagtcgaa caagtcactc 120
atcggatcgg gatccagtgg tgtgatcaag ggtaagggtc tgcggattgt cagcggggcg 180
agcaacatta tcatccagta a 201

<210> 2855
<211> 237
<212> DNA
<213> A.fumigatus

<400> 2855
tcaagggtaa gggtctgcgg attgtcagcg gggcgagcaa cattatcatc cagtaagttt 60
acctgtagta tgtggtcaaa gataataatt gacccttgca gaaacattgc gatcactgat 120
atcaacccca agtatgtatg gggaggcgac gcaatcacca ttgacaatgc cgacatggtt 180
tggatcgatc atgttacggt cagttcccca ggcccaatct tgtttggctc actctga 237

<210> 2856
<211> 483
<212> DNA
<213> A.fumigatus

<400> 2856
cgcttcgaac cgggtgacca tctccaacaa ctacttcaac ggagtcagca gttactccgc 60
cacctgcgac ggctaccact actggggcat ttacctggat ggatccaacg atctggtcac 120
catgaaaggc aactatatct accatttcag tggccgcagt cccaaagtcc agggcaacac 180
ccttctccac gcggtaagct cctcaccttc ttttccaagc acaatctaac gaatcaggtc 240
aacaactact ggtacgactc cagcggacac gcctttgaaa ttggatctgg cggctacgtt 300
ctggccgagg gcaacgtctt ccagaacatc gataccattg ttcagagccc cgttgatggg 360
caattgttta cctcgcctga tagcaacacg aataaggtct gctcgaccta ccttggacac 420
gtgtgccagg tcaatggatt cggcagctcg gggactttca gccaaggtct tcacgacggg 480
tga 483

<210> 2857
<211> 342
<212> DNA
<213> A.fumigatus

<400> 2857
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aacaggttga gggccactgc ttgggaagac aggctcaatc tgctcaagac gaagatgaag 120
tatcaggatc ttcttgccat agcaggctgc atcgccaacg ccggcgccgt cagtgtctcc 180
ggcgctgctg agggtttcgc caagggcgtc actggtggtg ggagtgcaac ggctgtctac 240
cccagtacta ctgccgagct tgtgtcctac cttggggaca gtgaggctcg cgtgattgta 300
ctgaccaaga cgtatgcatt cattgaaata gctttgttgt ag 342

<210> 2858
<211> 270
<212> DNA
<213> A.fumigatus

<400> 2858
actgcgcgta ttggccgcca gcatctcgtc ctcgggacta gcgcttcgaa ccgggtgacc 60
atctccaaca actacttcaa cggagtcagc agttactccg ccacctgcga cggctaccac 120
tactggggca tttacctgga tggatccaac gatctggtca ccatgaaagg caactatatc 180
taccatttca gtggccgcag tcccaaagtc cagggcaaca cccttctcca cgcggtaagc 240
tcctcacctt cttttccaag cacaatctaa 270

<210> 2859
<211> 564
<212> DNA
<213> A.fumigatus

<400> 2859
ctaccgcacg cattcccccc attcactgca ccctttcccc ggactctgca cgccaagatg 60
tccgttctcc gtcatggagg ttcatacctc cagcgacgtc ttaccaaaat gtacacagat 120
acgaagaccg cttgtgagag tgtaacgacg gcctctaagg ctgtcgatga tccagagctc 180
gtggctctgc atcggagttt taggacccag cgggatcggc ttcttgcttg gggtctagac 240
tggagcgacg ctagcgccgc gcaaccgaat gatatcgatg aatcgcttac ccaagctggg 300
tttagcgatg ttgtggaaag cgttatgtct tccattcagg agttactgag tgaagcggaa 360
cgcattcaac atgggggttc ctctgatcta cctcccaaag gcgctcagaa ggactctaca 420
tcaaaggaca gccttcctgc cctgccggtt aagacgcact ggacccatga agacataaca 480
cgctccaaaa gcctccttgc tgacttgacg gcttgcatcg acactctgta tgatctgtcg 540
cgctcgcgcc gaaccatgac ctcc 564

<210> 2860
<211> 540

<212> DNA
<213> A.fumigatus

<400> 2860
gataaattca attgctccaa gactacggag tatccgagga gggacttcga aaacttcaaa 60
tggaatgctg attccgtctc cctttgttca gatctgcacc ccgaccctta ttacaaaccc 120
ggcagttcta gcgacgatgg cgctccatgc caccgaggaa aaggttcggc aggatacttt 180
ggagctgaag ggtcggactg cgactcgccg ttctccctga tcaacgaaac tttcagctgg 240
atagagaaga acctgaaggg caacatcgac tttgtcctgt ggactggaga ctctgcccgt 300
catgacaacg atcagaagat tcctcgaaca gaggatgagg ttgttcgatt aaatgagatg 360
ctggcaaaca agttcgtcga tgtcttccga gacagacaat tccctaacgg cctctccata 420
cccatcgtcc ctacaattgg aaacaacgac atcatgccac acaatatatt cagaggaagc 480
ccaaatcgat ggacgaagag gctccaaaag atctggaggc agtttatacc agagcatgag 540

<210> 2861
<211> 633
<212> DNA
<213> A.fumigatus

<400> 2861
aatcgtagtc ctctcggagt gggttcatgc atcgcagcca ttctcaacgg caagctgctg 60
gatttcaact atcgccgtat tgctcataaa atgggcatgc cagtggatcg aaaaaagggt 120
gacgatttgc ggggcttccc tatcgagaag gctcgtcttc aggctttctt tcccctcatg 180
gctctcggtg tagctgcctt catcccgtac ggctgggtcc ttcagcaggg agcgccgctg 240
gcagtacccc ttgtcctgca gttcatcatc ggattcagct tcatcgcctc cctcaacact 300
ctgagcacgc tcatggtgga tctgttccca gaccgagcgt ctaccgcgtc tgcagcatct 360
aacctcgttc gatgctggct gggagctgtc ggtgccgcgg tgattgacca tatgcttaac 420
gctatgggct ggggctggtg cttcgtcttc tggggcctgt tgatgctggt tggtctaggc 480
ctgctattgg tggagtatca tcgtggcatg caatggcgtc tggcaagact cgccaagctg 540
gatcagagac aagtggagaa ggagactcag aaggccgcaa gtgagaacaa ggaggcacac 600
ggagatgaga acgaggctaa ttcggatacc tga 633

<210> 2862
<211> 690
<212> DNA
<213> A.fumigatus

<400> 2862
cgtccggcat acattctggc ttcaactgtc tacctggctg ctaacattgg cttcgcattg 60
cagaatagct acgtggcgct gatggttctt cgctgcatcc aaagcgcggg tagcagtggc 120
accattgcct ttggctatgg agttgtagcg gacattgcaa cggcggcgga gagaggaagc 180
ttcatcggac ctgtgtctgc gggcgttatg gtggcgccgg ctctcgggcc tgtcattggg 240
ggtattttgg ccaagtttct cggttggaga agtgttttct ggttcctcgt tatcatcagt 300
ggtggctacc tggtggtgtt catgaccaca atgccagaga ccaatcgcaa tatcgtcggg 360
aatggcagcg tccctcccga tcaatggtgg aggatgtctg tcattcagta cttggccgca 420
cgtcgccgac tacagaagat gacaaccgaa gaacgcattg cccatcaaca gcagagagcg 480
aatctcaacc aagcacgtgg gcatcagaag ctttcgtttc ccaatccact caaggctttc 540
gttatcttgc tggagaaaga tgcattcatc gtggtctctt atgtcggact ggccatgttg 600
gctaacactg cgctcttgac gagtacaccc aatctctttg gcaagctgta tggctttaac 660
gaccttcaga ttggtctttg ctacatgtaa 690

<210> 2863
<211> 1947
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1189)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2863
gagggatttg gcaatatgga actcaaggag acgacgtctg ggctgccgga agaggttttg 60
ctctcgaaag tcgaaagctt ctctacgaga ttttctggca cattccagac ccctgtcagg 120
tcttttaagc cttctcgaag agtgaaaatt atcactctgt gccactcgga atgtgaaatc 180
acgcagaacg gaaattcggt tgctctggct ctttaccttt tggaccagga cgcagaatcg 240
atgaccgttg tgaatttacg cgctgacagg gtagcactgc cgaagaaaga tgcagtgact 300
gccaagaagc agcgaaagaa ggcatcttct gaggagcgtt ctttacttgt tcaggcgacg 360
ggcatacatc acttcgcaaa tattcaagac gcctgcaggg ttgttgatgg acatacttca 420
cgcatcttga cacttggagc agcacacaac ggtgataacg aattgtacct gcaaagccca 480
tggagcaacc ctatcaaaat cgatattccc cacagtctaa tgctgtatga aagatacgga 540
gtgtcctcca gcacatccgc taatcgcccc cgagatagtg gtatgaatcg tataatggct 600
gatagcccga tatcaatatc tggactcgac catccatccg ttcgaggcaa attcgacgtg 660
atcgacgcta cgaaaagacg acacaagcta cagatacaga tggagcccag caacgagctt 720
gttaaggaca tcattcaaat ttgtaaattt gttctgcgtg gctttgagaa agctggtgat 780
ggtatattgg ctggatggtg ggaaacggtc aaatggcttc gtgctagagg gactggcgag 840
actgacctcg aatggactgc aatgataatc gtcttgttcg caatggcatt acagtttatc 900
gacagtgatc aaactcccgt caaacaagca cgccgaaaga agggtctcct taggtccagc 960
agcggaagct atgtcgacct ggagagctgg gaggcgatgt tggacaaaga atcaagttct 1020
tgtggcgtcg tggcgccttg gatggccagc agttcttggg gatggatcct cgagcaagac 1080
gcagagcacg atgctgtcaa gtctcaggga atgaacgctc ggaagactga ccagcaggct 1140
tctaagggat caacatttcg aaccaacaca tatttattcc gatgcatanc tctggcccgg 1200
gaatttctgc ggactcctca gggtaactcg acgatcggtc cgaacggcca tcttcctact 1260
gcgctctcct gcaatgatac tctccggcgg accgcccttt gtacgattgt agtaggctta 1320
cacctgtttc gggaggaaca gaaactttca atctgtgatg ctgagcatga acgtaaaccc 1380
ttgggtctcc ttgcacccgt tctggctcaa atcggcggct ggctcggatg gacgtcctgg 1440
acatgggcag acaacgcgta ctacggctct gagatggcga gtatggaacg gtggcagttc 1500
gaagcttctc gtatctcgat gatggacatt cctccagagc cctttgcgcc tccctcaatc 1560
ttcgctcacc tggagactgc atgggggcag cgctcctcgc cgttcttcac actcctggac 1620
cttgtcagca catcggagag cgctccgcgc aatggaaggt tatggcaaga gtgttttagg 1680
ctcacgccga ggacactggc tctcaatggg ctcctctccg aaatacacga catctcgtcg 1740
tcgtttgaca gggtcaagct ccttcatcgt tggggtctta ccaggaacgt tgtcgagacc 1800
ttcccacaaa gtgtcagtac gccactgtat gaagcgatca tgcgtacacc gacccaggcc 1860
tcctgctcct ggaattgcaa tcttctgaaa cttgtccagc gatatgatct gagcatgtcc 1920
ctggatatgg atacgttctt ttcacct 1947

<210> 2864
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2864
cccacaatat ggactttaga cttcgataac tctgatgata aaacaggagc agaatccctg 60
cgtcctttga gcacctattc acgaatgatg ttgatgtatt tgaagggcga aatgaaatct 120
ggggaagatg attcgtgttc cccatacggt gcaggttgcg agcggcaact tcattaccaa 180
atgttgtga 189

<210> 2865
<211> 627
<212> DNA
<213> A.fumigatus

<400> 2865
aaagcagcat cctctgacca gtcttctctg cttcatctct gcagaatgca tcctagtgct 60
cttcttggtc tcctggcctt cacggtcgcc gcctcggcca ttcctgcacc gccagccagt 120
gcgcactcca aacactcaat caacaatttc aagtcgaaga tcaagaatgt ggtcatcctg 180
gtgatggaaa accgctcctt tgacaacctc ctcggtggtc agaagctcaa gggcctggag 240
aaccccgtca acaccggccc ttactgcaac ccctacaacc tcaccgaccc cagccaaggc 300
gttgcctgtt ctgccgccaa ggacttcgac tccatcacca atgaccccga ccacgccatc 360
tatggcaaca acattgagtt ctatggcacg ttcaacccag acaacactca gatcgccgag 420
ggcaagctgg ttcctcataa ccaaggcttc gttcatgagc aggtccgcaa gtacggcgcc 480
aaggtcaaca agaccgtcct cgctacccag gtcatgaact actacaccga agagcaggtc 540
ccagttctga cctcgctggt gcaaaactac ctgaccttca accactggca ctcggatatt 600
cctggcgtga gtatcttatg cctttga 627

<210> 2866
<211> 222
<212> DNA
<213> A.fumigatus

<400> 2866
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cacggtctga acgacgctgc ttttaccaag cacgagttcc cccagcggtc catcttccag 120
cagttgaccg agaccggtca ctcgtggatc aactatgtcg accctgccgg cggtaccggc 180
cctgatgcag gctacttcaa ctggacctat gtcttcacct ac 222

<210> 2867
<211> 1005
<212> DNA
<213> A.fumigatus

<400> 2867
cttcctacac gaccactcca aatacaaaga agcaggaatc ggtacgtctc tccattttta 60
gataatcccg ccatgcagaa ctgcgagcac actaatgctg acttctttct agcttacgag 120
tctctctcgc tctacgaaga tgcatacaag tgctatcacc tggcgcacct ctggcgcgag 180
tcgctatact gtgccctgat ggttccccta tcggaagccg acctcaccgc ccacgcactt 240
gctctaacga caacactgac agaagaaagc cgtgactatg tctctgcagc tcaaatccac 300
gcagagcatc tgcacgacat tccggcagcc gcccgcctcc tctgccgcgg ctcccgcttc 360
gcggatgcca cgcgtatcct cacgctccac ggcaagaagg atctgattcc agagattgtg 420
gacacaggtc ttgcagatgc catgggagtc acgacggacc tcctcgctga cttcaggtcg 480
cagttgaacg cccaggtccc tcgtatccga gaactacgtg aacgccgtgc tgctgatccc 540
ctggcgtatt tcggtggtga tccaaccacc gacgacctcg gagtcgatat tccagataat 600
gtctctctag ctcccacgga cgcctccaca ctggctggtc gcaccatgtt cacgaggtac 660
accggcaaaa cggcatcctc acgacatacg tccaagaccc gacggcgaga ggagcggaag 720
cgggcacgtg gtaaaaaggg cacggtctac gaagaagagt acctagtcaa cagtgtgcgg 780
cgactcattg aacgggtcaa ctcgactgtt cccgaggtgg aaacgcttgt tgatgcactc 840
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aagatgtgtg ctcaaagtag ggaggaagtg ttcggcgccc tggaacagaa tgagagtgaa 960
aaagacgccg cagtcttaaa gccggggctg gaaggaaacg cgctc 1005

<210> 2868
<211> 360
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (66)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2868
agcgctgatc cttcgacccc cgtggtgaag atggcgaatg agtctctaat ttcgcgcagg 60
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cgtttcgaaa tagacaacta tcttggccgc tgggccaagg ctctgaagca tctccacgct 180
ctcaacgcat atgacgagat acgcgtttat gtcataaagc atgggctgta taaagaagca 240
atcgacttgt ttaagtatca gccggagcag ctgcgtgaca taacacatat ctatgctgac 300
ttcctacacg accactccaa atacaaagaa gcaggaatcg gtacgtctct ccatttttag 360

<210> 2869
<211> 1149
<212> DNA
<213> A.fumigatus

<400> 2869
acgcttgtcc ttccagccgg cgtggtgaag acaatgatca atcgcagtat tatcggtcgc 60
ccaatgccca atggaccggt atacctgcta cagccggata cgctcctccc ggtcgaggaa 120
gaaggcgagg aaggggagat tgccattgcg ggcgtcggcc tggcccacgg ctactaccgc 180
aatgccgcac taacagccga gaagtttatc gagtggcacg gcaagcgagt ctatcgcacc 240
ggcgaccaag gacggtggac acgccgtaac gacggccagc gcgtggtgga attccgcggc 300
cgcagtgatc gcaccgtcaa gaaccgcgga ttcctcgtca atctacccgc cgatgtcgag 360
gaaccgctac gccagatggg cttcggtgtc accgacgtct atgcttcgct gatcaacggt 420
ctcttggttg cgctggtgac cccggcaact gcagatctgg acggcctgca gagcgaggcg 480
gaccgtcggc tgtcttcttt ccatcggccg ggacgatact tggctgtcga tcagtttcca 540
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gcgcgtctct gcgagggcac cgatgatgaa gagaccacag ggggcgagcg tcctacggag 660
cgcgagcaag tcatagccga atgcatgtat accgcgttgg ggttggatct cccgtcggcg 720
tcggcgtcca aagatttcaa tttcttcgcc atgggcggaa actcccttgc tgctcttcga 780
ttcacctccc tgtgccgtga gcgaggcatc ctcctcacta cccgggatct gtacctacat 840
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ccagacaagg aggagcaaat cgaccaccga ttatccctca aggccgaggt tgctgcggcc 960
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gctcctattt tccaaagcga tgggaccaac acgaaccagc tgcggcaatc gtatcccctg 1080
gcctcatcgg agcagatgtc caatgcatat tgttccagag cagccggaag gtcaggagat 1140
cccccaaag 1149

<210> 2870
<211> 543
<212> DNA
<213> A.fumigatus

<400> 2870
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ggccgactag acgtcccgta tgagtataca gttcgccaca tgcgagatgg gagtatgtac 120
tgtacgcgcg ctgtcgacgc acggcaaaat ggcaagatct gcttctcgtg tttgtgctcg 180
tttaagcgct ccgaggggca gcagacgttc caccatcagc cgggcccggc acaggagcgc 240
ttcagggctc ttcttgccgg gaagaagccg gaggatcatc cgcgtagtcc cagcgtggat 300
gcggactggt ggattgaaca ggttcagcgg gggaatattg ccgagccaga gttcccgggg 360
cttgatgtga ggaacgtgga tatgacgagt tacaatgcca cagaggaggt gaagcagagt 420
ccggaaaagt accgtcagtt gacattgtac gccctcaagg ggtcaccgca tgactcaaat 480
gttgcgttga gcaagcaaga cctcaaagcc agagaacaga caggcgagtt cgataacctc 540
taa 543

<210> 2871
<211> 300

<212> DNA
<213> A.fumigatus

<400> 2871
gaagacggca ttcaagtcct ccgatcaggt ggcgtagtcc gcggatacac aaactggggc 60
acgttccgac ttcccaaacc caccaccaaa catcaagctc ggtacaccga cggccatcac 120
ttcatcatgc gcttcgatgc ttcaggcccc gttcagtccg ccgtccgcag aacccttagt 180
ctcgacccac ggatgatccg cttctcagtt gtgaagctgg gcgacaagct tgaggagatc 240
aaggacgtgg agggaaaggt tgaatggacc aatgctcgca agctcgccga ttcgatctga 300

<210> 2872
<211> 354
<212> DNA
<213> A.fumigatus

<400> 2872
aaacattctt tctgccgaca ctctccatac cctagtattg agatatccac gtccccctg 60
atcattgtga cccttatccg taacaattac ttgattatcg acctcatcct ctatctatac 120
ttacctctcc tctatctcgt tttctacgaa tctctcacca tgcctgacct acgccgtcag 180
atctttgaga gcggcaagac tatgtcccgc aaggccgctt ctcgcgaagg ctctcgccgt 240
ccctctcgcg cggcctctgc tcaaagttcg aaacagtcgt ctcgcaacgt gagcaggcat 300
ccatccgatg aagaggatga aggtaatctc agcgacgaca ctgcatatag gtga 354

<210> 2873
<211> 360
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (21),(31)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2873
aaggggacac ggaggtgcgg natacgatcc ntcaatgtaa tgagatttgg cgagacggca 60
aaaagcagca taggcctctt ctcgggccag gacgctgctc cgtttgcgat ccaggatatc 120
ttcaacgaca tcctcaagct cttcaggcca gttggcgttt gtatcagcat ctggaataat 180
gtcacccacg tcatccaggg aaccgaggct gtgaaaaatg ccaacatgat tagttatgat 240
tggattacca cgaacaatta cgtcatcccg ccctcaagga ccctcgaaaa ggaaaaaagg 300
gaaaagttgg gagaggaaag cgagggaaag aagctcacct atatgcagtg tcgtcgctga 360

<210> 2874
<211> 276
<212> DNA
<213> A.fumigatus

<400> 2874
ccagaaaagc atcccgtcgt ccggacgcac cccgtcacga aatggaaaac gctctacgtc 60
aacgagaact ttaccaagga gatcatcggt attgagaaga gggtcagcga tgcgctgtta 120
gatacgctat atcgcaccat cgcggaggcc tatgagtatc aggtgcggtg gaagtggacg 180
ccgaacgccg tggccatctg ggataatagg gtgacgttcc atacagggat cttcgattat 240
tgtatgtcta cccctctgtt ctatggcccg tgctga 276

<210> 2875
<211> 489
<212> DNA

<213> A.fumigatus

<400> 2875
catccatttg cgaacaccat gcttgcactt tctcttcttt atatcccctt gggtctggca 60
gcggcccagc tcatcggccc tgtaggccca accactgctc tctcaaaaaa gacagtcgat 120
tgtaatatcc tcagctatgg tgctgtcgct gataacacga cggacatctc gacatctctt 180
gaatcagcat tcaattggtg tgtccgacca aaccccggca gcagacttgt tgtcccggag 240
ggtcaatacc tgatctcccg cggcgtcgtg ctcagcaacg cgaccaattg ggcctttcag 300
ctggatggcc tcatcacagt agcgtatggt ggaaattgga ccattgatcg tgcgttaatc 360
cttgagggtt tagccggtac agatgtgttg aatactacca ttaatgggga gggtgaccag 420
aagtttttgt tagatgtctt ggtcattgtc aatggtgagc gtcagtcatt agttgtaaat 480
gtcgactga 489

<210> 2876
<211> 267
<212> DNA
<213> A.fumigatus

<400> 2876
tccctctttg agcggaccag aaaagtagac ctggatgcta cagcaaccac aaagagcgtc 60
ttcgacgacc cagtgctggc caaatactac ctcccgcatc cacaatatga aaacatgcac 120
cgattcgatg ctgacttccg gtggacctat cgggaagaga tagctgtcag acgcaagaca 180
gacctcaaga tcttcctctg gatcctggtg atgtttttcg gccttaacct tgaccgcgga 240
aacctaggta atgcccctgc cggatag 267

<210> 2877
<211> 687
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (508)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2877
tccttccagc cccgtggtga agactcgcct tccctgcgag gtttgaatga attggtcgag 60
aacccctatt tcggcgggac aagtgtcagg gtgccctaca agacagaagt cattcccctt 120
ctccactcca tgtcaccgca tgctcgggct atcggagctg tgaacacgtt gatacccatc 180
cggaagtttc ccgatggcgt ggacacagct attgagtcct ccctttatct tgagaagagc 240
cgggctggtc ccaccaaggc gttgcatgga gataacaccg actggatcgg gataggaaat 300
tgcttcagaa gaggtctgtc tcctgcaaat gccatccgtc cgtcgtccac aggtctggtc 360
attggagcgg gcggtatggc tcgggcggca gtgtactcaa tgatccacct aggggtgcaa 420
aacatcttca tctacaatcg taccaaggcc aacgcagaga agttggctca ccactatacc 480
cgacagaatc ttttggcgca tggatggnaa gggcgaactc tcgctcgaaa gtccacacct 540
acagtccctt gcaggatgac tggcctgcga agtacaagcc gccaaccgtc atttgcagct 600
gcatacctgc tcatagtatc ggaggagtgc cagctcccaa ctttcagtta ccttcgcaat 660
ggcttgggag ccctaccgga ggcgtag 687

<210> 2878
<211> 291
<212> DNA
<213> A.fumigatus

<400> 2878
gcatcgcttc aagagacgaa ggctaatatc atgcagctgg cctacaaacc tctgaatacc 60

ccgctcatga agcaaatgcg cgccctttcc catcgaggct gggttgccct tgatgggctc 120
gatgttctcc cagagcaggg atttgcacaa tttgagcttt tcacgggtcg tcgtgctcca 180
cggcgagtaa tgcgccggat cgtgttgcag gaatacaagg aagtggaagg acaagatgag 240
caaagcgcca tccaaagtag gcttgaaaat ctagacggac agcccacttg a 291

<210> 2879
<211> 486
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (233)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2879
caccgactgg atcgggatag gaaattgctt cagaagaggt ctgtctcctg caaatgccat 60
ccgtccgtcg tccacaggtc tggtcattgg agcgggcggt atggctcggg cggcagtgta 120
ctcaatgatc cacctagggg tgcaaaacat cttcatctac aatcgtacca aggccaacgc 180
agagaagttg gctcaccact atacccgaca gaatcttttg gcgcatggat ggnaagggcg 240
aactctcgct cgaaagtcca cacctacagt cccttgcagg atgactggcc tgcgaagtac 300
aagccgccaa ccgtcatttg cagctgcata cctgctcata gtatcggagg agtgccagct 360
cccaactttc agttaccttc gcaatggctt gggagcccta ccggaggcgt agtagtggag 420
gtaagttcta ggcatcgctt caagagacga aggctaatat catgcagctg gcctacaaac 480
ctctga 486

<210> 2880
<211> 531
<212> DNA
<213> A.fumigatus

<400> 2880
cagcatgata atgctgacta ttccgagaac catcctcccc caccgcaccc ccccccccc 60
tgctcacccc acacctcctc caggcctgta caatggcgtc cgacctgcgg gattccccac 120
ccccccctc ccccccaccc ccccctccc ccgcaccccc ccaccctcc cgcggccct 180
acacccccc caacgaccct cgcctctatc acaaccccc cccccacgcc cccgccatca 240
ccccccccc ccccccgctc ccccccccta ctccgtcccc cgctctcacg cctcacccga 300
ctccccacc ccccccccc gcctcacccc ccggccacaa ccccacctct ctccccccc 360
ccgcccccc ccccccccc agccccccct ccccccccac ccccccccc ctccccccc 420
ccctcccccg ccccccccc ccccctccc ccccactgc ccccacccc ccccacccc 480
acccccccc gccctccccc ccccccccc ccccacccc ccaccccccc c 531

<210> 2881
<211> 585
<212> DNA
<213> A.fumigatus

<400> 2881
ttgtcatcct ccgtaaggtc cattaggcct agcatcatgg ttgggatcat ggttgacagc 60
atgataatgc tgactattcc gagaaccatc ctcccccacc gcaccccccc ccccctgct 120
caccccacac ctcctccagg cctgtacaat ggcgtccgac ctgcgggatt ccccacccc 180
ccctcccccc ccaccccccc cctcccccgc acccccccac ccctcccgcg gcccctacac 240
ccccccaac gaccctcgcc tctatcacaa ccccccccc cacgcccccg ccatcacccc 300
ccccccccc ccgctccccc cccctactcc gtcccccgct ctcacgcctc acccgactcc 360
cccacccccc ccccccgcct caccccccgg ccacaacccc acctctctcc ccccccccgc 420
ccccccccc ccccccagcc ccccctcccc ccccacccc ccccccctcc ccccccccct 480

ccccccgccc ccccccccc cctccccccc cactgccccc caccccccc caccccaccc 540
ccccccgccc tccccccccc ccccccccc acccccccac ccccc 585

<210> 2882
<211> 513
<212> DNA
<213> A.fumigatus

<400> 2882
ctattccgag aaccatcctc ccccaccgca ccccccccc ccctgctcac cccacacctc 60
ctccaggcct gtacaatggc gtccgacctg cgggattccc caccccccc ctccccccca 120
ccccccccct cccccgcacc cccccacccc tcccgcggcc cctacacccc ccccaacgac 180
cctcgcctct atcacaaccc ccccccccac gcccccgcca tcaccccccc ccccccccg 240
ctccccccc ctactccgtc ccccgctctc acgcctcacc cgactccccc acccccccc 300
cccgcctcac cccccggcca caaccccacc tctctccccc cccccgcccc cccccccccc 360
cccagccccc cctccccccc caccccccc cccctccccc cccccctccc ccgccccccc 420
ccccccccct cccccccac tgccccccac cccccccac cccacccccc cccgccctcc 480
ccccccccc cccccccacc cccccacccc ccc 513

<210> 2883
<211> 516
<212> DNA
<213> A.fumigatus

<400> 2883
gaatcaagct tatcccacgt agctttgacc tggagccgtc tcttcacatt acagcctatt 60
tctaacctct ctacatatag ggtttttat actacagctc agcatgtccc ctctccatct 120
cctccctctc ctcatctccc tcctccccat cccagtcctc acaaacccca taaccccaag 180
agcaaccccg acaacctgca acggcaaccc agcctattgc acccgcctct actccaacat 240
cacgttcctc ggcgcccacg acagcccctt cgtcggcccc ctcccgcaac aaaaccagaa 300
cctcgaggtg acggaacaac tagacctcgg catccgcttc ctccagggcc agacacacaa 360
gaacctcgac gagagcgaca cggcgctccg gctatgccat acctcctgtc tgctcgagga 420
cgcggggacc ttgaagtcgt tcctggagac cgtgaagggg tggctggatg cgcacccgga 480
cgaggtcgtg accctgctct tgaccaacgg ggataa 516

<210> 2884
<211> 717
<212> DNA
<213> A.fumigatus

<400> 2884
cctggagccg tctcttcaca ttacagccta tttctaacct ctctacatat agggtttttt 60
atactacagc tcagcatgtc ccctctccat ctcctccctc tcctcatctc cctcctcccc 120
atcccagtcc tcacaaaccc cataacccca agagcaaccc cgacaacctg caacggcaac 180
ccagcctatt gcacccgcct ctactccaac atcacgttcc tcggcgccca cgacagcccc 240
ttcgtcggcc ccctcccgca acaaaaccag aacctcgagg tgacggaaca actagacctc 300
ggcatccgct tcctccaggg ccagacacac aagaacctcg acgagagcga cacggcgctc 360
cggctatgcc atacctcctg tctgctcgag gacgcgggga ccttgaagtc gttcctggag 420
accgtgaagg ggtggctgga tgcgcacccg gacgaggtcg tgaccctgct cttgaccaac 480
ggggataatg tgcccgtggc gcgcttcgac gaggcctttg cgggggccgg gttgagggac 540
tatgcgtttg tgcccgaggg gagccccaag acgttggcaa tggatgcgtg gccgaccctg 600
gcggcgttga tcgagaaggg gaagaggctg gtggtgtttc tgggtgagta tcagccatct 660
gtcacaggca tgttcgagag gtatgtgcga ctgaccatgg ttagattacg gcgctga 717

<210> 2885
<211> 450

<212> DNA
<213> A.fumigatus

<400> 2885
cagatggctg atactcaccc agaaacacca ccagcctctt ccccttctcg atcaacgccg 60
ccagggtcgg ccacgcatcc attgccaacg tcttggggct cccctcgggc acaaacgcat 120
agtccctcaa cccggccccc gcaaaggcct cgtcgaagcg cgccacgggc acattatccc 180
cgttggtcaa gagcagggtc acgacctcgt ccggggtgcgc atccagccac cccttcacgg 240
tctccaggaa cgacttcaag gtccccgcgt cctcgagcag acaggaggta tggcatagcc 300
ggagcgccgt gtcgctctcg tcgaggttct tgtgtgtctg gccctggagg aagcggatgc 360
cgaggtctag ttgttccgtc acctcgaggt tctggttttg ttgcgggagg gggccgacga 420
aggggctgtc gtgggcgccg aggaacgtga 450

<210> 2886
<211> 216
<212> DNA
<213> A.fumigatus

<400> 2886
cttatctcgg atcggcgcgt ccgaggtgaa gacacaatga gactcggagc cttcgctctc 60
cgttccacct ctatcacggc taagcctgcc gtgcagtccg ctgctttcaa cggcttgcgt 120
tgctattcta ctggcaaggc caaggttcgt gacgcttgtt cggggtcaat tgacatgttt 180
cgagctttct ttactgatag cttcttcttc ttttag 216

<210> 2887
<211> 564
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (400)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2887
gaatactcag gtctcttttg gttgctgctg actggtgaga tccctactga gcagcaggtc 60
cgcgacttgt ctgccgagtg ggctgctcgc tccgaccttc ccaagttcat cgaggagctc 120
atcgaccgct gccccagcac tctccacccc atggctcagt tctccctggc cgttaccgct 180
ctagagcacg agtctgcctt tgccaaggcc tatgctaagg gtatcaacaa gaaagactac 240
tggaactaca cctacgaaga ctccatggat ctcattgcca agctccccac cattgcggcc 300
aagatctacc gcaatgtctt caaggacggc aaagtcgctc ctatccaaaa agacaaggac 360
tactccttca acttggctaa ccagctcggc tacggtgacn acaatgactt tgttgagctt 420
atgcccctgg tacctcacca tccactccga tcacgaaggt gggaaacgtc attggcccaa 480
actacctcac ctccttggga ttgctctgaa cctcgcccca gctcctctct ggctggcggg 540
tctccaccgc tttggcttgg tccc 564

<210> 2888
<211> 450
<212> DNA
<213> A.fumigatus

<400> 2888
gactcggagc cttcgctctc cgttccacct ctatcacggc taagcctgcc gtgcagtccg 60
ctgctttcaa cggcttgcgt tgctattcta ctggcaaggc caaggttcgt gacgcttgtt 120
cggggtcaat tgacatgttt cgagctttct ttactgatag cttcttcttc ttttagtccc 180
tcaaggagac gttcgccgat aagcttcccg gtgagatcga gaaggttaag aagctcagaa 240

agtaagcgcg cagcgtattg ggaattacca cctaccatac agcgagtgct aatcaagcga 300
gcggttgttc acagggagca tggtagcaag gtcatcggcg aggttactct tgaccaggcc 360
tacggtggtg cccgtggtgt gaagtgcctt gtttgggagg taggtccaga gagccttttt 420
ccttctccct cagtctcagt gataatttga 450

<210> 2889
<211> 1005
<212> DNA
<213> A.fumigatus

<400> 2889
tgtttctccc cttggttgca attctcccat tacagtggcc ttggtttctc aatctgctgt 60
cgactggtgg atgaattctt gaaatctcac cgacatcccc gcgagtctct gaccgttatt 120
ttcaccacgc ggagcaccag gaagggaaat gacactctcc ttcgcctaca ggatcacctt 180
cggcgcgcct ctgcctctgc ctctgctccc gccgcagcat ccgcacgagt caccttgtg 240
gctgagaacg tcgacctgtc gaacctcgtc tccgtccggg ccctctcccg ccgactgaac 300
aagaccttcc ctaaactcga tgcgatcgtg ctgaatgccg gcctgggcgg atggacgggc 360
ataaactggc ccaaggcaat ctggggcgtt atgacagacc tcgtgcacga agtctcctgg 420
ccatctttca aaatcgcgcc cgcgggaatg gtgacggatg cccagaccgc actgggcgac 480
gacaaggaac cgcgtctcgg ggcggtcttc tgcgcgaacg tcttcggcca ctatatgcta 540
gcacacaatg ccatgccgct gctgcgacac tctgacatgc ttcacggccc cggccgcatc 600
atctgggttt ctagtctcga ggcgactgtg aagcacctcg acatcgacga catccagggc 660
ctccgcaccc tggcccccta cgagtcctca aaggctttaa ccgacatcct ggctctgaca 720
gccgatctcc ccagcacagc accatgggtt aaaagcttct actcggtcga cgagcaacca 780
gaaccccgca aagaaacaga actagaaccc ccgcacccaa acatgttcct cacacatccc 840
ggcatttgcg gcacaggcat cctcccgctc tcctggcccc tcttttactc catgctcgcg 900
gcattctggc tagcccgcct cctcggatcc ccctggcaca ccatctccac ctacgcaggc 960
gccgtcttca ccacacgggg gaggaaggca ccagcgcaag cgtga 1005

<210> 2890
<211> 207
<212> DNA
<213> A.fumigatus

<400> 2890
atgtctccca gggagctcca agctgttgtg gtttgccaag gcatggattg ttgcgcatgg 60
cgcgtatatc ccccgcgact ccatggaaac ggcgagagta aggctgcgtg tccttcagga 120
atcaagttcg ttattccatc agtggctatc tctcttgccg aagcagatat ccagattctg 180
catcatgaga atgaccaccg tctctaa 207

<210> 2891
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2891
ggcacaatgg caaagttggc cccattactc gcagcgatga agaaggccat caagaccacc 60
agtccaaaca tcagcccctc cctctttggg tccagcagtc caacagctag cgccgctgcc 120
cccatacaca cccccagaca aaccagccat accttcttcc cccacaccga ccgggtatac 180
cgatag 186

<210> 2892
<211> 1044
<212> DNA
<213> A.fumigatus

<400> 2892
ttgccttgcg gttcttcatc ggaatcctcg gagcaacctt tgtgccctgt caggtctggt 60
gcacgggctt cttcgataag aacgtcgtgg ggactgccaa cgcgctggcg gggggcttcg 120
gcaatggcgg cggcggcatc acctagtatg tttctccgcc ttgactttct atgtgcaacg 180
ctcacatccc tcagcttcgt tatgcctgcc atctatgact ccctcgttca ctcgcaagga 240
ctgactccac accgcgcctg gcgagttgca tacgtggtcc ccttcatcat tatcgtcacc 300
ctcgccttgg cgatgctttt cctctgcgag gataccccga cgggaaaatg gtctcagcgg 360
aacgacaaca accctgtaat gcagagcaat atcgtcgacc tccaccggcc cagcgcatcc 420
ggcaccccgt ctagcattaa tgtctccacc gtcccggaga agaagggtgt cgccacgccg 480
cagattgtcg acaccgaagc gcaaccggtt atcgatatca gccttgccaa caatgagacg 540
attaaaaacc caacgcttcg agaagcactg cgtgtggcat tctccctgcc cacactggcg 600
ctcgctctgc cgtacgcctg ctccttcggc gcggagctgg ccatcaactc catgctcggc 660
gcgtactatc tgaagaactt ccccagtctg ggtcagacca agtccggccg gtgggctgca 720
atgttcgggc tggtcaatgt cgtctttcgc cccgcgggtg ggttcatggc ggatgtcatc 780
tatcggtata cccggtcggt gtgggggaag aaggtatggc tggtttgtct gggggtgtgt 840
atgggggcag cggcgctagc tgttggactg ctggacccaa agagggaggg gctgatgttt 900
ggactggtgg tcttgatggc cttcttcatc gctgcgagta atggggccaa ctttgccatt 960
gtgcctcatg tgcatcccac tgccaatggt aagctcagcg tcttcttccg tcaggcgtac 1020
gctaataggc ccaggaatcg tctc 1044

<210> 2893
<211> 903
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (891)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2893
ttctccagca gtcggtgcgc tgacattgcc agttacttca cacccaagta tatcgagggc 60
ctcggcacat ttcaagacgg cggtgtcaga gtgaactgtc ccctgcggac tgcactccgc 120
gagagtgagg tcctctggcc atcacgtaaa aggccagacc tagtcgtcag cattgggacg 180
ggctacgcgt ctgagggatc gtcatttgac gagaactcga cacacgcttt cctgaaaggc 240
gggtttattg accgagctat ccgcacattt ctatcgtctc cggccgtcga cggaaggcga 300
ggttggaagg atgccctaga tagtgtccct caggacgtcc agaagaatgt gttccgatta 360
gaccgtatcc tgccaggaga attgcctgaa ttagacgaca tcaacgcgat tgatgagcta 420
gatcagcatg actaccgtat atcggaggaa cttaccaaag catggtttgc caaggctctt 480
tttttcgaac ttgaccagga gcctaccttc ttgcagaatc actatgaatg ccggggatcc 540
atcctttgct gcaagcatga cgccgcagga atcgtgaagc agattgcagc aaggttccca 600
gaagctcgat ttgcgctttc tcgcgggagt agtcttggag atgtcgacgg agagtatgga 660
tgctcgaagt gcgggtacta caggaagcgg gtctcgttca aagtctccaa ccttcacgaa 720
acagtagacc tgggtgtcac cggcaccaca gggttcatct ccattggggg cttccctact 780
acagtccagt gcctgctgga aaaccaacag gctgattcac ccttcgggcg aagtgaccac 840
agccgagatc gatggccacc gtctcgcggg tgttattgca gcacgcgcat nttcacctcg 900
tag 903

<210> 2894
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2894
aatagaagtc aaaacgcgtt tggtgatccg ctcggttgcg tgatccgctc gcttaccgat 60
tacgttatcg ataacatgat gactcagcaa gttgcctgtc caacgccgat cgcccaaaca 120

aaagcgtcat tcccagcccc ccctaattat atccaaccac cgcaatttca agggttctac 180
gttgcttga 189

<210> 2895
<211> 441
<212> DNA
<213> A.fumigatus

<400> 2895
gcgagcggat cacgcaaccg agcggatcac caaacgcgtt ttgacttcta tttcaaaagc 60
tgcagtgctc agccagccac tatgccacca aaagcgcgta taaactcaaa aaattcagtt 120
gagcaggagg gaagggtcct acttgcagta tcagctttga aaaataagga aattctcaat 180
attcgtgaag ctgcgcgtgt ctataatgtg ccttatacta ccctccagcg gcgcctaaag 240
gggcatactt ttcgagctga attacgcgta aatggctata aaatgactca gaatgaagag 300
gattcactta ttagatggat tctatctatg gatcaacgtg gagcggctcc ccgaccgtcc 360
tatgtacgag aaatggcgaa tatcctgctt gcgcagcgtg gttcaactcc tacccagact 420
gttggagagt cttcacccgg g 441

<210> 2896
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2896
atgatcgcga tcacttcggg aaagaaacgg cttgaccttg ctggccctct gcttgccaat 60
ctcttccgag ttttgttcac gaaagtgact cgggatctcc agcgatatgt ccagagatgt 120
gttggaacta atcgtgaaat ctaccttaac ctccgtatca aggctattac cttgatggga 180
tgtctgaaat aa 192

<210> 2897
<211> 1395
<212> DNA
<213> A.fumigatus

<400> 2897
tcaacacgga agaggaatct tttcttgttt gagcgcgtcg ctccctccct gcgctcaaca 60
cattcttaca tcgatcgacc gcctcaaaac cgaatccgat ttccgtcaaa atggccgaat 120
acgatgatgc gtacgaggat gagttctacg atgagatgga ggaggggatc acgtcggagg 180
actgctggac ggttatctcc tccttccttc gacacgaagg gtttggtgtc gcagcagctg 240
gactctttcg atgagttcat ctcatcaacg atgcaggagc tggtagagga acaaggccag 300
gtcacactcg accagacgct tcctccttcc gaggatgaag acgatcccgt cgttctccgt 360
cgatacgagc tcaagttcgg aacagtcatg ctctctcgcc cctcggtcac tgaaggtgat 420
ggtgcgacta ccatcatgtt gcctcaggag gctcgtctgc gaaatctcac ctacgccagt 480
ccgctctacc tcggcatcac aaagcgaatc atggaaggtc gggaacggct gatcgcggat 540
cgtgatgagg acgacgcggc gccagatgcg gacgaggata gaaaggcccg tgggacatac 600
ttgcagtggg aacagaaaga gctcccccct gatcaggcga aggaggagac ggtgttcatc 660
ggaaagatgc ctattatgct caagtccaag tactgtattc tcaaggatct gagcgagcag 720
gcgctttaca actggaacga gtgcccctac gactctggtg gttacttcat catcaacgga 780
agtgagaagg ttttaattgc tcaagagcga agcgccggaa acacggtgca agttttcaag 840
aaggcgccac caagtcctac accctacgtt gctgagattc gaagtgcggt cgagaagggt 900
tctcgactac tttcacaatt gtctctcaag ctttttgcta agggagacag cgcgaaaggc 960
ggatttggcc ccacgatcag atcgactctg ccctacgtta agacggatat tcccattgtt 1020
gtcgttttca gagcactggg tgtggtttcg gacgaggata tcctcaacca tatttgctac 1080
gacagaaatg acacccccat gcttgagatg ctgaagcctt gcatcgagga aggtttcgtc 1140
atccaagacc gcgaggtcgc tttggatttc atcgccaaac gtggatcttc tcagtccagc 1200
atgaaccacg agcgtcgtgt caggtacgca cgagagatta tgcagaagga gttacttccc 1260

catatctccc agagcgaggg tagtgagacg cgaaaagcct tcttcctggg ttacatggtt 1320
cacagactct tgcagtgtgc tctcggtcgt cgcgatgtag atgatcgcga tcacttcggg 1380
aaagaaacgg cttga 1395

<210> 2898
<211> 1002
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (241),(243),(377),(414)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2898
cagagacagg gcctatgtgg caggggtgga acatccacac aggagatttg gggggaaatt 60
attcccttcc aggttcacac ttttgggggtt cggttttggg gtgggttaat gggatatatt 120
tgggttaaca tattcccgtt accagcaatt cagctggcgc tttccactcg cattcagttt 180
ttttttggca tttttagcgg cttcatggtg ccctttcttg gggagtcacc ccgttggttt 240
ngngtaagga gtcgttcttc tgccgcaaaa gaggtcatcg cacggtttct ggacaaacgt 300
ctcgaggatg atgaggtact tacttcgctc cagtcaattg agactacagt tgcccacgag 360
atggagtcgc agaaacntgg atggcgaacg atttttttcca acgggccgca acanaccttc 420
cgtcgaattg ctcttggagt tggagtcaac ttcatgcagc aatttggtgg cgtgaacatt 480
gttgcttact atctgcccat cattatgaag cgctccttcg gtttcagtga ccgcatgtct 540
ctgatcctgt ctgctgtgga ttccatgcaa tggatgtttt ggactggtct cggaacttta 600
ctgattgaca ggctcggccg tcgcaagttg ttgatcgtcg gcgctgcggg ccaaagcctg 660
tgttttgcta tgaccgctct tggtcttggt attggcacta aacctctgga gggtcttgct 720
gtggcattca tctttgttta ctatgctttc tttgtaagaa accccagtga ctcagaagcc 780
ccttaccatc taacctcgca tatgcagggg ctatcctttt tggctatacc cttcatgtac 840
ccgtcggaac tcaactccag cattcaccgg aacttcgcgt gctcggctgc tatggtcatg 900
gaatggctag gtgtttatgt cattgtggcg atcacgccag ttggtgattt agtccctccg 960
ccccttgga tgtatcacta tttcaatact aactcacact ag 1002

<210> 2899
<211> 264
<212> DNA
<213> A.fumigatus

<400> 2899
ctcacactag gcattgagag catcgcctgg aaattctact tggtattcgc gatcgcaaat 60
tttgttttca ccatcgtttg ctggtttttc gttgtggaaa cctcaggact ctccttggag 120
gagattgaca aaatgttcga gattaagtac tatggcggca aatatatgac atacctagag 180
gctgccaaaa aagcgaaagg gaatcctctg tgccacgaac tttgtgaaga cggagaaagc 240
aaagacaagc agaggagttt gtaa 264

<210> 2900
<211> 231
<212> DNA
<213> A.fumigatus

<400> 2900
tcaatgcagg tttacactaa tctcttccct gtccgccata catggtactt gctagggacc 60
atcatcatct tgaatggaat cgactgggca ggttttgagg ttctggccat tggaaataaa 120
gaaatagaga cactgccgac aggctatcgc atcttggatg gtctgttcca ggctttgggt 180
gagggtcttg acggtcatgc tcgtctcctg gggctaactg gagtggtata g 231

<210> 2901
<211> 246
<212> DNA
<213> A.fumigatus

<400> 2901
gcgcggaccg ggcgaggtca cagtggtcct ccctgccgga aggcaccagc ttggccgacg 60
gcgcgccgac agactccccg catgcacgac gaaacctggc gcgtggcgca acgccctgct 120
cctcgtcctg ggccagatcc tcttcgacct cgtcggcagc gtcgacctcg tatctcgggt 180
tgtcgacctt gttgtcgatc ctcttctgct acacctacat cctccaagca tacaaagaca 240
ttttaa 246

<210> 2902
<211> 297
<212> DNA
<213> A.fumigatus

<400> 2902
gaagtacaaa tcaataaacc taccgatacc ccttacacaa tgcaagtcct cctcctcggc 60
ggccatggca aggtagccca gaaactaacc ccgctcctgc tcgcccgctc ctggaacgtc 120
accagcgtca tccgcaatcc cgagcatgag aacgcgatcc tcgccctggg caagggcgca 180
aggggcaaac tctccgttct cctatccagc ctggaggacg taaaaagcga cgatgacgcg 240
aagaagatca tcgacgccgt gtccccggat tacgtagttt ggtcggccgg tatgtaa 297

<210> 2903
<211> 357
<212> DNA
<213> A.fumigatus

<400> 2903
gttattctct gccattgcat caattgcaaa cgatacactg gctctggctt ctccgccaac 60
attgccgtac cgaagacaag cctgcactgg accaagggcc agccgaaact ttacgtcgac 120
aagagcgaac gcggcactgg tgttcctcgg atgttctgcg gggactgcgg gacgcctttc 180
acgtccgagc cgagtggtca ggatgaagtt attattatca aaacggggac actagatgat 240
ccgtaccggg atgaatgtgg ggagctggcg atggagatct ggtgtgttcg caaggataag 300
tgggttgacc agatgaagga tgagagcatc acgcgactgg acaaatctat gggctag 357

<210> 2904
<211> 777
<212> DNA
<213> A.fumigatus

<400> 2904
tcccggggtg gaagcagtga accccggagg acccgaattt tgccaaaggc tgaaaagaaa 60
acaacccggt cgattgaatt cttcccaaga gggttaggag accgaattaa caaaggaatt 120
acccggatta cccccgtttc cgggaattgt ggagggagta actcgccgag tcggcccagt 180
tatccaagaa gttcatgctc catgtggcag gatgtttgtt cgctcccgca gaccaccttt 240
gaggcgttca ggggcaacat ggaccggctc aagtttatca agtaccggca gtcgccgcgg 300
gggtcgcagg gggtcgttcc gcacaaagac tcgagcgggg tgtttacttt tctctcgcag 360
gatgatacgg ggggattgca ggttctgaac aagaaaggcg aatggatcga tgcgccgccc 420
atcgagggaa gtctggtggt gaatatccag cagggatttg aagctatcac gggggggtc 480
tgtaccgcca ccacgcatcg ggttattgtg agtctctgtt ttacgcttta tcttggccac 540
cggtctgacg ttgaaaaggc acccacgtcc aaaacgagat acagcatccc ctatttctcc 600
gcggtgcgga tggacctcac cctagcccag ctgaaagagt cggcggcgca tattgtgcag 660
cggatcccgg cgtcggacga tcgcaagaag cgggcagtgg atgtgccgag cgagttcctg 720
tcgccgttgt actcttgtgt aagtctcttg ctgccatgtg ctcccttcgc ggtctga 777

<210> 2905
<211> 357
<212> DNA
<213> A.fumigatus

<400> 2905
ataaatctta cacctcccac ccggatctcc ccagacaacc ccatcgctat ggccaaagtg 60
gctgccctcg gactgctgct atgggcaatc ccctcggtgg ccgtcatcgc aaccgtgaag 120
tccccctgtt tgtccgtctg cggaggcacc cagaagacga tcggcgacga gctgatctgc 180
aacgatggcg attacaatgc gacgacgaaa gggctgacga tgaagaactg cctcctgtgc 240
gagagtacca gtacgaccta ctcgagccag ttcgacagtg acgtctactg gttcatctgt 300
atgcatgctc tctcccttga ttcccccacc acataccaca ccggggcaca tggctaa 357

<210> 2906
<211> 294
<212> DNA
<213> A.fumigatus

<400> 2906
tccggcgtag tcaaccagaa atacaccatc caggtctgcg tctatgagaa ttccgcctcg 60
acctcgctgt ccccctgcga gtcgcaatgt ctccccctga aacccgtctt cgagaccctc 120
tggtggaacc gcaacgtgtc gctgttcaac tactgcacgc agaacaacaa tgcctttccg 180
acctacgcga acggctgctc ccagtgtctg atgggcaacg cgggctccaa cgtcctgggc 240
aatttaatgg aaaatatggg ctccgcgtgc aaaacccaac ccatcgccac ctag 294

<210> 2907
<211> 540
<212> DNA
<213> A.fumigatus

<400> 2907
atcgaacttc ggaacgcata tctcgctcac catttagtcg ctatttacta ccaccatcga 60
caaaagaggc aaccactcgg gaacatgact gccgaaaaac ttcgcattat catcgttgga 120
tctggcctgg caggtctagc tgcggccagg atccttcgtg agcatcacga tgttactgtc 180
tacgagcgcg gtggtccgga tacggccacc ggtggacagg gtatctgtct gttctctaac 240
ggagtcaaga tccttcaaac catgggattt gatcggtatc gtgccggtgg cgttccatgt 300
tacggttacc ggctgtttga caaagacggc aatcaattgc aggacttccc agttgacttc 360
aagaagcgtt atggagccga taccctcagt atgaagcggt ctgatttccg tgacgagctc 420
cttcgactcg ctactgctcc atcggatgaa ctcggtattc aaggcagtcc ggcgcagatg 480
gtgttcaata tcaggtcatc agcccggggt cgacgaacgc gtacgaacgc gtcagaaggg 540

<210> 2908
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2908
ttgctgctga tgcttccaca aatcaccgcc gaatctaccc tttctcataa tcaagagctg 60
atgctatgcc aatgctcaaa tttgattcta ctgtttcaca cgtatggagc aataagcaat 120
tgcaatatcg acgaggtctg ggctcagcct gcctcttcca aggaatttat ggagcgaaag 180
tga 183

<210> 2909
<211> 408
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (166),(387),(395)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2909
atgactggtc tcaaccccga gacagacacc atcctccaga tctgctgtta cataaccgac 60
gccaacctca acctcctcga cccagaaggc ttcgaaacca tcatccacca cgaccgctcc 120
gtcctcgact ccatgtcgcc gtggtgcgtc aacacccacg gtcgcnaggg gctcactgcc 180
gcagtcctcg catccacgac caattccact accgccgccg aatccttgct cgcctacatc 240
caacgatacg tgcctcatcc tcgcacggcg ctgctggcgg ggaacagcgt gcacgctgac 300
aagatgttcc tcgccaagga accgtataag gctgtgctgg agtggctgca ttatcggatt 360
ctcgatgtga gtgcgttcaa ggaagcngca aagcngtggg gggggtga 408

<210> 2910
<211> 315
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (111)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2910
ccgacgccaa cctcaacctc ctcgacccag aaggcttcga aaccatcatc caccacgacc 60
gctccgtcct cgactccatg tcgccgtggt gcgtcaacac ccacggtcgc naggggctca 120
ctgccgcagt cctcgcatcc acgaccaatt ccactaccgc cgccgaatcc ttgctcgcct 180
acatccaacg atacgtgcct catcctcgca cggcgctgct ggcggggaac agcgtgcacg 240
ctgacaagat gttcctcgcc aaggaaccgt ataaggctgt gctggagtgg ctgcattatc 300
ggattctcga tgtga 315

<210> 2911
<211> 249
<212> DNA
<213> A.fumigatus

<400> 2911
ctcgttttgg cttctcctgg tgaaaacctc accacaggta ttgcattatt atattctact 60
ggtggcaata cccattgtct agagcacgag actcagctgg cctcatttgt ggaccccggg 120
gatattttcg ctctcagtac tgctaatcct agcttggtag gggaagactg tgcatcatgt 180
tcatgggccg tacttctaaa tttggaggta ctcgagcttg tggctttggg caaggtaact 240
gagtatcag 249

<210> 2912
<211> 525
<212> DNA
<213> A.fumigatus

<400> 2912
cgggtgtgca ggccaacacc gttaacgagg tgttctccgc catgtatggc ttggacggta 60
aatggctata ccctcgcatg cagcccggct ctgagctcgc cgcgtctttc atctactaca 120
gcggaaacgg gttcaagtac tcagacgact ggtacaaata cgtcgtctac aacgatagca 180
actgggacca ctctacctgg acgcttgccg acgcagcggc agccgctgcg caggatccct 240

tccagatctc ctccttcgac gggaatatct ccggtttcca aaaggcaggc ggcaaggttc 300
tgcactatca cggcctggag gatgcgatca ttacctcgga tagctccaag gcgtactaca 360
agcatgttgc tgataccatg ggtctcagtc cctcggagct ggaccatttc tatcgcttat 420
tcccgattag tggaatgggc cattgctcgc cggggaccgg tgcggcttcc atcgggcagg 480
gttcttccac ctatgccggc gatgacccgc aggataacgt gttga 525

<210> 2913
<211> 1110
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (52),(161)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2913
cgccctgcac acagggaaca gtggttgggg aaagcactgg aggaagtaat tntatccttc 60
aaggatacca ggatttcata ctatttgggt tgctggacag tggccgggca aggatggaag 120
tcatcccaga gattcccaga gaatttggac ggcgtggtgg ntggagcacc ggccatcaat 180
ttggtcaatc tctgcagctg gggatctcga ttcctgaaaa tcaccgggcc gccaggttca 240
gagacattcg tgacaagcgc gcagtggtcc gcggtccaca atgagattct ccgacaatgc 300
gatgctctcg atggcgccgt cgatggaatc atcgaggata ccgatctctg ccagcccgtc 360
ttcgagaccc tgctttgcaa ttccacggct gtggacaaga cctcttgcct gacgggtgtg 420
caggccaaca ccgttaacga ggtgttctcc gccatgtatg gcttggacgg taaatggcta 480
taccctcgca tgcagcccgg ctctgagctc gccgcgtctt tcatctacta cagcggaaac 540
gggttcaagt actcagacga ctggtacaaa tacgtcgtct acaacgatag caactgggac 600
cactctacct ggacgcttgc cgacgcagcg gcagccgctg cgcaggatcc cttccagatc 660
tcctccttcg acgggaatat ctccggtttc caaaaggcag gcggcaaggt tctgcactat 720
cacggcctgg aggatgcgat cattacctcg gatagctcca aggcgtacta caagcatgtt 780
gctgatacca tgggtctcag tccctcggag ctggaccatt tctatcgctt attcccgatt 840
agtggaatgg gccattgctc gccggggacc ggtgcggctt ccatcgggca gggttcttcc 900
acctatgccg gcgatgaccc gcaggataac gtgttgatgg caatagtgca gtgggtggaa 960
aagggtattg cgcctgagta tgtgcgtggc tccaagatgt cccgcgatgg tacgatagat 1020
taccgccgca agcactgcaa gtatcccaag cgaaatcgat acgtggggcc tggcaagtat 1080
accgatgaga atgcttggaa gtgcgtgtaa 1110

<210> 2914
<211> 279
<212> DNA
<213> A.fumigatus

<400> 2914
cattacttgg aaacacggca cctacacatc aaagtcagtg cgttttccat cgatttcacc 60
aagcccgagg agagatgctt ttctctatgt agccagcaaa ggaaagacat cttagcttct 120
caccggaacc gatacgaatt cctgctttca aacattctta ctgctactta ccactctaag 180
aactctgtag accaggaaat aggttctgcc attcctggaa ccgacagctg gcaaagactt 240
ataccgtcat cgtcgtcctt gtttgttccg tgtatatag 279

<210> 2915
<211> 921
<212> DNA
<213> A.fumigatus

<400> 2915
cgtggaggag tggacttcgt ggtaccggtg atggaagcta tatctggcct ctcttcgtca 60

aatgaactcg gtcgaaatca tccgcgttcc actgaagaaa cgcctaagtt gctctactgt 120
accgcaatca aatctcgcac catggttaac cacgataccg tcgacctgcc cgtcatcgat 180
tatgcagccc tcggcgaaaa ggatgccgcg ggctaccgca ctgccgtctc catcgatgag 240
cgccgtcgac tgttcacggc ccttcgggac attggcttcg catacctgaa gcaccctggg 300
gtgaaccagg tcactgtgga cgaactcttc gcgcattccc ggcgcttctt cgccaagccg 360
ctggaggaga agatgcagat tctcggcaag ctcgacaagg gccgtgggcc cagccagggg 420
tactccaacc cgcagcaact ggcccacgat ccccagacgt cggacctgaa ggagttcttc 480
ggcatgtatc gcgatgacga cactgagaag cccaatcagt ggctgtccga cgccgactcg 540
aaggccatgc ggacggatct ggtccggttc ttcgactcgt gccacggggt catcctcgag 600
cttctgagcg ctctcgcgga ggaagtcggt ctggccgccg agacgctgca cccgttcatc 660
cgcgagaaga atcatttcat tgcctgtttg cactatccgg ccaccgagcc ggagtcgttc 720
cggacgcggg tccgcgcggc ggcccacacg gactatggct gtctgacgct gttgtttaat 780
gactcgggcg agggtctcca ggtgctgcgc aacaatggcc agtacgagta tgtgcctcgg 840
aaggacgggt gtgcggtgct gaacggtgag ccgtccattt ccctcattgg caagcagagg 900
aaaccagaga taactgattg a 921

<210> 2916
<211> 288
<212> DNA
<213> A.fumigatus

<400> 2916
tctaaaatta gattaattct ctacaccata gtgactactt acttagatat cactaagata 60
acatccaatc tattaaggta tctattaaat ccaggactgg cccattttga tgcagctaat 120
cgaatcattc tatatctctc tttaataaaa gattatatat tagaatatag aagtaactta 180
acagggaata tctttattat tactagtaac actgcctaca tagattatat agattatagc 240
agtagtaagg gatatctaat aaagctattt agtgctgctg ttaactag 288

<210> 2917
<211> 666
<212> DNA
<213> A.fumigatus

<400> 2917
tcaaattttc aaaacgtcga ctcccagaaa aaggcttcca ccaggttcgc agcagcaaac 60
caagaagata gtctgaaaga cctcagccgt tcagcagagt cattctggga gagaggacat 120
ttggtgcaag ccgaggaaac cgcacggcgt gccctggacg ggcaaaaaca gcttcttggg 180
gatggccatc gcgaaacatt gaccacagcc actacattgg cagggatcct aaagcagcga 240
gaccgcgacg atgaagctgc aatattttac gaaaacatcc tgcaaacagc tgacgaggtc 300
ctcggcggcg aggaccttgt taccttgcga gtcctcaatg acttggggtt acttttacag 360
aaacaaagga agtatgacgc tgcgcgtcgg atgcatgaac aagccgtgag ggcgtatgct 420
gcgcattacg gcgaagagca cagttccagc attatcagca tgacgaatct ggcgcgagtg 480
atgaaggctc aacgtgacta cgaggaggca gaagacctat ttcgacatgg actggcgctc 540
cgcgaggagc tgctgggagt cacgcatccg gaaaccatgg atagtgtacg tttcttgggt 600
agagcaggcg gaatcactgg tcagagagac cgccggtcga cagctggcac tgatgggagg 660
aaatag 666

<210> 2918
<211> 528
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (519)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2918
aggctcaacg tgactacgag gaggcagaag acctatttcg acatggactg gcgctccgcg 60
aggagctgct gggagtcacg catccggaaa ccatggatag tgtacgtttc ttgggtagag 120
caggcggaat cactggtcag agagaccgcc ggtcgacagc tggcactgat gggaggaaat 180
agtccagacc tgctacagtg tatgagcagt tttgcaatac tcatgctgga ccatggtcgc 240
acggatgcta ccgtcgaaat cgccaagcga gcagtcgaga cccgaaaaca ctggaaggat 300
aagcatgccc tagatactgt agatcccaac acgctcacgt cattgaacaa cctggcaggc 360
gtgctacaga gttgtggcca ccattactcc gccgaggaaa tccaccgaga ggtcctcgag 420
ggatcacgtt tggtcctggg acccgatcat cccaataccc tatcaacgtg cagtaatttg 480
gcccagctac tagacaagtc ttcaccacgc gctggcatnc atatccac 528

<210> 2919
<211> 933
<212> DNA
<213> A.fumigatus

<400> 2919
actgatagtt gttgtgctag accgaccagg gactcgatgc agctctgggc tgatcttgtt 60
cagaaccaga gttacacttt tgacaacact ctcccctatt atcaggagac ggttcagttc 120
aggcccccag acgcgctgcg gcgagccgcg aatgctacag cgcaatacaa tcctgatgct 180
ttcgctcatg aaggacaacg cccgcttcat gtatcatacc ctgtttacgc tatgcccttt 240
tcaacctgga tgagacttgg agtggaagag gtgggtataa acgaaacgct ggacttcaac 300
agcggatcat tgttcggtgc tcagtacggc agctttacta tccgaccctc tgatgagact 360
aggagcagtt cgcaagccgc ctttctgagt ccgctacctt catcagctta tctgaaaata 420
tatcagagta cgatggcaaa gagaatacta ttcaacccac aaaagcaagc gtctggggta 480
cgagtcaccg gtctactgcg aactttcacc ctcaacgcaa agcgagaggt gatcatatcg 540
gcaggtgtat ttcatacccc acagcttttg atggtttctg gagtcgggcc ggccgataca 600
cttgcagaac acggcattga tattgtccag gatgcccctg gtgtcggtca gaatatgtgg 660
gaccatgttt tctttggacc aacgtaccag gtagctctcg agacttttac gaaagtacca 720
acagacccat ggtatctcgc atcgcaactg gctcaataca tattctctca tgggggagta 780
ctgacaagtc cggtcatcga ctatcttgca tttgagaaga tcccaaattc ctttcgtttg 840
aacttctcag tccaaacaat cagggacctt tcgtggtttc caaatgactg gccggagatt 900
gaggttggtc gcctcgatgt actgctttgt tga 933

<210> 2920
<211> 414
<212> DNA
<213> A.fumigatus

<400> 2920
cagtacattt caacagctgc ttacgtggga aatttctcga atcctgttgt ctcgcaacct 60
tcgggtggta agcaatacgc aacaatcctg ggtgcccttg ttgcgccaac atctcgcgga 120
aatgtgacca ttgcctcgaa tgatacctca gatctgccta taatcaaccc aaattggctt 180
tcgacggaag cggatcagca aatagcgatt gcagcgtata agcgtatccg tggtatgttt 240
cacagcacgg ccatggcgcc gattgttgtg ggagatgagt acttccccgg gagtcagtat 300
cagacagacg cggaaatcct cgaagttatt cgcaatacat tgatgactat atatcacgct 360
gcctgtactt gcaagatggg aacacgagac gagttttcac cacgccgctg gtag 414

<210> 2921
<211> 534
<212> DNA
<213> A.fumigatus

<400> 2921
ccaggtatgc tattgtaccg atcatggatg caggttcacc gagctcatcc agtctacgaa 60

caggttgcgg gcgagctccg caagatgaca gccttcatcc ggcaagaagc gctggagaag 120
gcccgcgaaa tccaactcaa ggccgacgaa gaatttgcaa tcgagaagtc gaagcttgtc 180
cgccaggaga ccgccgccat cgactcgctc tacgagaaga agttcaagca ggctgccatg 240
tcccaacaga tcacccgctc cactcttgca aatcgaactc gtctccgtgt cctttccgct 300
cgccaggagc tcctcaacga cctgttccag caagcccgcg agaagatctc taccgttgcg 360
tcccatggat gcccagatat taccagaccg ttcctcaagg gcctgaacct ccaggggcct 420
ggttcgcttt tgaatggagg accaaggtat ccgttcgggg gccaggaaat accggatttt 480
cagcgtgggg tcaaacaatg ccattcgaaa gaaaccgttg aaaaggaatt ttaa 534

<210> 2922
<211> 378
<212> DNA
<213> A.fumigatus

<400> 2922
tacctcccac tggtgcttat caattcggtt ggactctcca attctatggc tcgaatcctg 60
acagcttgca atgcaatctc atactttatc ttctcctgcg tgatcgccac gatggtagaa 120
agattaggac gccgaggatt gatgctgctg tctggttttg gccagtccct ttctatcctg 180
gtcatcacca ttcttctttg tttcgctgag aataataagg tgtacggcac tgcatctgta 240
gccttctttt tcttatacca tattgcattc ggagttggca tgctgggagt gccatggctg 300
tatcccaccg agatcaactc gttgccgatg agaacaaagg gagcggccgt tgccactgcg 360
acgaactggt tggtttaa 378

<210> 2923
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2923
tgcttatgga ctcttcacag gattaccaat tttgccattg tcgaaatcac tcccattggc 60
attcagaatc tcggctggaa attctggatc gtatggaccg tcctcaatgc agtattttta 120
ccggtgattt acttttgta cccagagacc ggtaagtccg tttggattaa ttttccattc 180
tccggctaa 189

<210> 2924
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2924
cctcagtcaa tccttacagc gaaccgcacg ctggaagatg tggatgccta ttaccggacc 60
aacccgccgc tcattgtcgt tcttgatccg gatgctatct ccaccaagcg cccgctcaga 120
tttacccagc acgaagacga ggagcttcag cggaaggtca aggaagtgca gattgaaatt 180
cccaaggggg actccgctga cgtggagcat gctgaatga 219

<210> 2925
<211> 873
<212> DNA
<213> A.fumigatus

<400> 2925
gcaaagcctg gagacgttaa agattatttt tggagcagta cgcagagtct tttcactgat 60
ggatggacgc ttgtcttcag tcggatatcc agtgtgttcg gggacattcc aaacggcgag 120
agtgcgacag cggcaggaga tacgtctagc agggtgcgtg atacacgctc gattgccgat 180
tcgcctcggc tcgttcgtgc tgcatacaaa tctctacagt tagtcgcttc tgattttatc 240
gctctcttgc cacgccaatg tcggttggac ctcgtgaatt cattatcccg tttcgcttta 300

cagcaagagg acttcaacat ctcattgaca acgacatcat ctttctggaa tatatctgat 360
tttctacaag ggcaaattga ggaattctgc attgagtctc atgtcgaact ctcagtcagc 420
gaggagacac tttcggctct tgcaagaggt gatgaaccct cggtctcacg aaatgcgctg 480
tggctgctgc ttctgcttag gattgtaagc cttgcgaggg atagcaggct ggagatccga 540
aactgcgcga ttcagaccct tctaagaatt tttgatgcgt acggacaaca actttcaccc 600
aaggcatggc gtctgtgtct gaaccgtgtt ttgttcctaa tggttgaaac catcgaactt 660
gaactcgcaa attctcgggc agcggagaag gccagaggct ctgaggtggt ccattcctgg 720
atagaaacgg cagttgtcat gatcaagggg attgccaatc tgataactac ttttttgggg 780
gcctatggtt ggagacagtg cctttggacg cttcctggga acatctcttg ggatatttgt 840
acaagcttat cagctcaaac ttcctggagc taa 873

<210> 2926
<211> 324
<212> DNA
<213> A.fumigatus

<400> 2926
aggtcttcag tactagttat tatggaatac acggagcacg atcttttaca gatgtccaga 60
ctaacattgt cgctcacaag gaccattgct gcacccgtca tgtggctgtg gccacccgag 120
accgctttaa cagtggtgcc taacatcagt caccgacatt gcgatctaac aggcatcaag 180
ctctgtacgc atcatgaggt attttacgat atgaaagcct cttatatctc atccctacca 240
cttctttttct acagagaatc cgctctagtt attggtgcga gagacaagat aaacttggtg 300
ccatttatgt gcacatggat atag 324

<210> 2927
<211> 357
<212> DNA
<213> A.fumigatus

<400> 2927
aatcagttct gtcctttcgt ggaagaccgg agtataggag gaaggctttc atggggtttc 60
cacgatgaag cccagaaggc cattgctcag ggacagagct ggagcaaggt ccgtgatgcc 120
acagctgacc ttcagacttc tttgcgtagc atgaagtttg agactccaga caacgaggca 180
gcggtcacag agaaggttag tccagttttc cctatcaaaa tcggtagtct ctcgccactg 240
accattttac acagtatgag aagatccttc agaccatgtc ggagaggttc gcttcagtgt 300
cggacgagta aggagacgaa cgtccggaga ggcgatattt tctttcatgt ttattag 357

<210> 2928
<211> 423
<212> DNA
<213> A.fumigatus

<400> 2928
ctgacatcag gaattacaat cagtgtcccg gtgaagatgc aacgttcacc ggccttggcg 60
cggtcgacca tctcgccacg caagatcaca tccatggtgc ggggcatgct cccagttgga 120
atttcgtgtg atgactcctg tagtttcacc ttttgccagt cgacgaatgt gctcttccca 180
atatcgaggc gccatccaga gcggttcatg catatgtcgt tcgggcactg tgttggctcg 240
gtgtatcgga aagtctgttc cacattcgag acaacagatt tgcactgctc acaaacgaag 300
gtcccaagag agagctcagg ccgaatctca gatgttcgag taacggtacc agaaattgag 360
agcagctttc caatttgggc ggtacggagt tggcgcagtc tagaaaccaa aggcaggttg 420
tag 423

<210> 2929
<211> 1278
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (52),(57)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2929
tttcgcacaa atccccggca agaagaattt ggggtttaca cccttgaagg tngactntac 60
caattgactt ctctcaataa ccagattctg gcggatgcga ttgccaacca atactttgga 120
ttccaaccct tcctaacaag ggcccttcac aatttaattg cgaaatatga acccgaatac 180
ttcgtttctc atcgtcaagc cagcagtgcc tcctcccagg ctagctcatc catgatggcc 240
gccaatgcaa gcgtgaccga aaaccctgac ttggagcgga atatgcgcga gaaaacccgc 300
catcagcaga ctgacaagct gttttcgttg gcattctaca acctgccttt ggtttctaga 360
ctgcgccaac tccgtaccgc ccaaattgga aagctgctct caatttctgg taccgttact 420
cgaacatctg agattcggcc tgagctctct cttgggacct tcgtttgtga gcagtgcaaa 480
tctgttgtct cgaatgtgga acagactttc cgatacaccg agccaacaca gtgcccgaac 540
gacatatgca tgaaccgctc tggatggcgc ctcgatattg ggaagagcac attcgtcgac 600
tggcaaaagg tgaaactaca ggagtcatca cacgaaattc caactgggag catgccccgc 660
accatggatg tgatcttgcg tggcgagatg gtcgaccgcg ccaaggccgg tgaacgttgc 720
atcttcaccg ggacactgat tgtaattcct gatgtcagtc aactgggact tccaggtgta 780
cgaccggagg ctgttcgcga taacggtgct ttccggagtg gcgatgtcgg tggaggaggt 840
gtcactggtc tcaagtcact gggtgtcaga gacttgactt atcgactggc gttccttgcc 900
tgtatggtca cccctgacac cacaactcct ggccagcaat caaaccagca gttgaatggc 960
caatcccaca acatcctggc ttcattgaac caaaacaatg aaccggaagt cgacgaggac 1020
aaagcccagg aggctctcct tcagagtttc accccatatg aagtgcagga cttgaagaat 1080
ctggtccact cagagtatat ctactctcga ttggtagatt caatcgcccc tatgatctac 1140
ggtcaccggc agatcaagaa ggggttgctt ctccaattga ttggaggtgt cagcaaacat 1200
acggagcagg agaacatgca attgcgtggt gatattaata tctgcattgt tggtgatccc 1260
tcgacaagca agagttgt 1278

<210> 2930
<211> 1104
<212> DNA
<213> A.fumigatus

<400> 2930
aaccaaggca gcaagcagga tgtggaagct ctggttgatt atatctacga cacaaagaag 60
ggtctcggct gggacctgga ctttgtcgtg ccatttgccg caattccgga aaatggtcgg 120
gaaatcgact ctatcgattc taaatctgaa cttgcccatc gcatcatgtt gaccaatctt 180
ctacgacttc tgggttgcat caagacccag aagcagaccc atggcttcga gactcgacca 240
gcgcaggtca tccttccctt gtctccgaac cacggcacct ttgggaacga cggtctgtac 300
tctgagtcca aacttgctct ggagacgctc ttcaatcgct ggtactcgga aaattggagt 360
aactacctca ccatttgtgg tgcagtcatt ggatggacac gtggcacagg cttgatgagc 420
ggcaacaaca tggtcgctga gggtgtcgag aaactcggcg ttcgcacctt ctcacagcaa 480
gaaatggcat ttaatttgct tggtctgatg gcgcctgcaa ttgtcaacct ttgtcagctc 540
gacccggtct gggctgacct caacggtggc cttcaattta tccccgactt gaagagcctc 600
atgaccaagc tccggacaga cattatggaa acaagcgatg ttcgccaagc ggttatcaag 660
gaaactgcta tcgagaacaa ggttgtcaac ggtgaggaaa gtgaactcct atacaagaag 720
gtgatcgcag agcctcgtgc gaatatcaag ttccagttcc ccactttgcc agactgggaa 780
caagacgtga agcccttgaa cgagagtctc aagggcatgg tcaacctgga caaagttgtt 840
gttgttaccg gtttcgctga agttggtcct tggggtaact cccgtacccg ttgggaaatg 900
gaggcttacg gcaaattttc gcttgagggc tgtgttgaga tggcctggat catgggcctc 960
attaagcacc acaacggccc actgaagggc aaagcctact caggttgggt cgacgcgaag 1020
actggtgagc cagttgatga taaggatgtc aaggccaagt acgagaagta cattcttcac 1080
gacggggtcg aagtacgcgt catg 1104

<210> 2931
<211> 444
<212> DNA
<213> A.fumigatus

<400> 2931
cctttatcta gattcgtgtt aaagacaaag gagcagagag ccgctgagaa agctatgatg 60
gacaagtctc cattgaacac actaacattg gaggactggc tcgaatcaga acgtcacaag 120
ctcaccggca acctgacacc ggtgaccccg gagaccttcg ccaagtggaa gaaggagcgc 180
ctggataaga aggctgcaga agaacaggcc cgcaaggcca aggaggccac gggtcgtgct 240
ctgttcgaga gcggcaactg gcgtgcggag gaggagagcg acgacgagga cggagacgac 300
ggaacctgga acctggaagc cctgcggagg gagaccgaaa agctacggga gaagaaagaa 360
gaggaacgtc ttgcccgact ggctggtatt tccctcacgc catcatcgaa cgacgagacc 420
gttgcccaag agggcgaagg ctga 444

<210> 2932
<211> 276
<212> DNA
<213> A.fumigatus

<400> 2932
acgaactact catcccggtg ttcgatagga caaatgggac gaacagacct tcgcaaagtt 60
gttctcagca agcacggcaa ccctcggacg actaccgaga aagtttgcaa gtactttatt 120
gaggccgtcg agaaccaaaa gtacggttgg ttctgggttt gtcctaatgg aggcgacaag 180
tgcatgtaca aacacagctt gccacctggg tatgttccag taccggtttc caaagcattg 240
tatcccggtg ttaaccttta tctagattcg tgttaa 276

<210> 2933
<211> 888
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (464)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2933
attccccgcc accggagtac ctgcacgaag ccaacatcca gaacgcgtac gcgcatttgg 60
acggctttcc gccgcctaac agccgatgag atacttcccg aagtgcaatg gggcgtgcgc 120
tatcacacgt acgtggtcaa ctcgccggta tactgcgcgt acctgcttcg gaagttcgtc 180
cttaatggcg ggcagacgag agagtatacg ctcgtagacc cgatggaggc gtttgagctg 240
tccgggacgg ggacggggcc tgtcaggacg gttgtgaact gctcggggct gggattcggg 300
gatcctaaat cctttattat tcgaggtatg agccgagctc tatctcttca agttctaata 360
cagctgctga taaggctacc agggcaaacg tgtcttgtcc gtaacccctg ctctgtgacc 420
atcacccgcc aaaactcaga cggcacatgg tctttctgca ttcntaggcc tctgagcggc 480
ggaacgatca tcggcggcac caagcaacca cacgactgga atccaacacc ctcgcttgag 540
acgaggaagc agcttctctc cagtgcggag aaatggttcc cctttactga ggggagtggt 600
ggtcagtttg atgtcatccg tgatattgtc gggcggaggc ccgcgaggga gggtgggatg 660
aggatcgagg cggagagagt gggaggtgat cgcttcattg tgcacgccta tggggctggg 720
ggacgaggct tcgagttatc gtggggagtc gcacaggatg ttgtgcagtt gatgtttgaa 780
aatgggttgg cgcggcagaa agtgtcgttg tacataattc ttgaggtcag tactcacggc 840
tcgtttacga acaataaagc tctaccagtc gctgattcac tctattaa 888

<210> 2934
<211> 225

<212> DNA
<213> A.fumigatus

<400> 2934
ccgagggttc ttaccgccaa accgcaaggg gaaaacaacc aaagcacccc gcaaaatatt 60
cataacttca agcaccttgc caggggagga tccatccttc aggggtccaa atgtttggac 120
ggcgaggaac acttagattc cccgccaccg gagtacctgc acgaagccaa catccagaac 180
gcgtacgcgc atttggacgg ctttccgccg cctaacagcc gatga 225

<210> 2935
<211> 492
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (181)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2935
acatactgca cgaccgacga cagacacgac atgacccacc tccaggttaa cctctcggcc 60
gtcgctccct ccgccactcc ccccatcagc ctccccatca acgtcgccat ccacaaccca 120
gcagccaccc cagtcacctt cgtcaactgg ggcaccccgt tcgacccaaa agccaacctc 180
ntgggcgtct tccagatcaa cgacaccgcc accgatcatc caatcaccct cgacaccatc 240
aagttccagc gccggctgcc tccgtcgcgg gaggatctcg tcgagatccc cgccgagagc 300
tccatggagc ggaccattac catcccacat gtgccgctgg aagaaggcca cgagtacgcc 360
gtgcaggcca agggcatctg gcatggaatc tgggagtgtg cgcgcaacca ggtgacggat 420
gcgcagctgc aggagctcga ccagaggggg gagtttgagt cggagcgtgc gctgttcaag 480
gttacgcagt ag 492

<210> 2936
<211> 408
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (131)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2936
cctctcggcc gtcgctccct ccgccactcc ccccatcagc ctccccatca acgtcgccat 60
ccacaaccca gcagccaccc cagtcacctt cgtcaactgg ggcaccccgt tcgacccaaa 120
agccaacctc ntgggcgtct tccagatcaa cgacaccgcc accgatcatc caatcaccct 180
cgacaccatc aagttccagc gccggctgcc tccgtcgcgg gaggatctcg tcgagatccc 240
cgccgagagc tccatggagc ggaccattac catcccacat gtgccgctgg aagaaggcca 300
cgagtacgcc gtgcaggcca agggcatctg gcatggaatc tgggagtgtg cgcgcaacca 360
ggtgacggat gcgcagctgc aggagctcga ccagaggggg gagtttga 408

<210> 2937
<211> 528
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (510)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2937
cctctccacg gcgctgtagc ctgtagtaac ttatgccttc tatctcaagt caatcagtcc 60
atcagtccat catcgtgcgg taaggcaaca atgcagacaa cgattgatat cccgactgac 120
gcagcgcgcg tgttctccat cctcgctcaa ggcggaatag gcatcgtccc ctcgagcgtc 180
ggctacggaa tcatagcgac tgagcctccc gctctgcagc gcatctatac cgtcaagcgt 240
cgccagccgc acaagcgcca cgccatcata ggcagctacg cgctgcaccg cgagatccac 300
gtcctcccgc cggacaagat ggctctcgtg cgctggctga cggtcgatct caacctcccg 360
ctgggggtga tcgcccggta ccgacgggat cacccgctcc tcgccagact agacgaagaa 420
acccgagcgg cgagttcaat ggacggcacg atggccatgc ttgtcaacgg gggtccgttc 480
caggaagagt tggtccgggt ggctgctgcn gctgggcggg cggtgctg 528

<210> 2938
<211> 243
<212> DNA
<213> A.fumigatus

<400> 2938
cctgtgtttt ctttccttct tccccctctt ttcacctacc cttcccctct ctcggtcctt 60
gcctgccccc cgttctctcc ctccgttcct ctttccctct tcccctctct catctcccac 120
ttccaattac tatgttcact tctatctatc ttccattttc ttatccccgt tcccttcatc 180
tttcttccct cctgtaccct tttttccccc tcttccttcc cttacatctt attccttctg 240
tag 243

<210> 2939
<211> 1716
<212> DNA
<213> A.fumigatus

<400> 2939
tgctgcggtc ccttccagcc ccgtggtgaa gacgtgcaga gcgagcggct gaagaaagtc 60
ctcggagaag tactcgatgg ctatccaggc gtgaccatga ccttggaacg agtggaattc 120
cgcagtcctt tcaagccttt cgttcatcga tgggagcgat ttgcgagtgc gcgtgaccag 180
gagctagact cggtgaccaa atcgcacgtg gaccttctct acactaccct cgaagaggag 240
ctacgggata cgattgcccg taaaaatgac cttgtgctca acggtgtcgt tacccacgat 300
ctgctctgga ccatcttcga gcccgaggat gagatcttca gtatggttga cggtcgcccc 360
cgagcctttc ggttcaagtc aggagagaca aattgtcgga ccggcgcatt tgatcttgaa 420
gcccaataca ttgatttcga cggtgaggac ttcggtttcc gcgacaagga cttcgaagtg 480
gtaccgtttg gtggcaccat gcccatcact gctcttccgg tatttccccc aagacatcat 540
agtgaccaga tatccattcg tgacgccttg atcgctcgtg gagcagtctg ggagacttac 600
aaggggtatc atttcaagta ttacgaaggc ctggctgttg gtcggtacat gagaagggaa 660
ttcaagttca acatcaaaag ccgcatcatc atcgacgcgg aggcattcaa caccttcaac 720
ccagacgagt ctgtctcagt gtaccctact tgtggaaatg aacttaccga tgacgagcga 780
ctgctggccg ctcccacttt gcgtggatat tcgctcaaag agaaacggtg gctggagttc 840
aatcttgaca gtgtcaagga gatcgtgtgg gattcacaag ccttcgattc cctggtactg 900
ccgcaggatc aacaggatct taagacactg attctggcct ttgccaacgc gcagtccaaa 960
caagcggatt cgtttgacga cgtggtccag ggcaaagggc gcggaatcat catgcaactg 1020
agcgggccgc cgggtgtcgg taagacactc actgcggaga gcgttgccga agtgatgaag 1080
gtaccgctgt atgtgatgag tgcgggagat ctagggactt cggcctcgag ggtagaggat 1140
gcgtttaaag atatccttcg gatggttctc aactggggag gatcgctcct gttccactat 1200
acatatgtct ccttcccatc ccccctctc tccgactttt tttccactca ccattgttcc 1260
accttccctc cacctctccc ctttttaacc tgtgttttct ttccttcttc cccctctttt 1320
cacctaccct tcccctctct cggtccttgc ctgcccctcg ttctctccct ccgttcctct 1380
ttccctcttc ccctctctca tctcccactt ccaattacta tgttcacttc tatctatctt 1440

ccatttttctt atccccgttc ccttcatctt tcttccctcc tgtacccttt tttccccttc 1500
ttccttccct tacatcttat tccttctgta gttagtgccc cttcttcctt ctttcctctc 1560
gctttttcct ttggtactcc tcttcttatc cacttggcat ctaacggtct ttcttcttct 1620
cctccgggtt atcatctctc ttttctctat cgttttctga acttcccctt cctttatcta 1680
tccctccct tctctctctc tatttgctct tccatc 1716

<210> 2940
<211> 243
<212> DNA
<213> A.fumigatus

<400> 2940
tctatacaca cattcgctac agatgccatc aatgaattca ccgttgtccg gtccatctct 60
gatatgccac acagtgaact gtgttcttac tgctatgtca cccgctacaa gatgatgcaa 120
gcgactccgt actctattta cgacaagact tatcagtctg acctagagtt cattcattcg 180
aaatgcgggc tcagcgggcc gaccagtatc ctcccaccgc tgcaggagtc cccagaccca 240
taa 243

<210> 2941
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2941
ccgcccacag tgggagttgg cataaagtcc gctatctccg ccgactacgt caacagccga 60
tttggaagtt tggaaggtca tcatccatca ccattcgttc aagaggtcat agccttcact 120
tttttggtat acttgttgaa ttatgatatc tactggaacc cttttgtctc tatagaatgc 180
acaattagag actggtaa 198

<210> 2942
<211> 864
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (118)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2942
tctggagcag tagccggcct cacagtcgat tgctcgctgt atcccctcga cacaatcaaa 60
actcgtctac aaaaagctag acatcatgct ccaagcacac cagggtccac cctgtcgnta 120
agacaaacca tccgcggcat ttacgcgggt ctcccgtcgg tgctgttcgg ctccgccccc 180
tccgcggcat ccttttttcat cgtttacgac ggcgtcaaac gctctctctt tcctcccgct 240
ggctccgaca cggccgcaac tcgctcccgc atcgtcatca cacactcact cgcctcctcg 300
atgggcgaaa tcgctgcatg cgccgtgcgg gttccgacag aggtggtcaa gcagcgggca 360
caggccggtc ttttcggggg atctagtctc ctcgcgctca aggatatcct ggcgctgcgg 420
cacccggacc cgacgggcat tgcgaagcgc gggtacgggc aggttatccg cgagatgtac 480
cgcggggcgg ggatcacgat cgcgcgggag atccccttca cggtgctgca gtttaccatg 540
tgggagtcga tgaaggaggc atatgccaag cgcatgctgg tgccatcgac gcgggagtcg 600
ggcgccgtga gtcagattcc tgcgtcgacg agcgcgatgt ttgggagtgt tgcgggggcc 660
attgcggcgg ggctgaccac gccgttggat gttattaaga cgcgggtgat gctggcgcgg 720
cggggcgagg gggggacgc tcgcgtgcgc atccgcgacg tcgtgcagga gatctctggg 780
gaaggattcg gggcgttctg gcgcgggatg gggccgcgag tggcatggat tttcttcacc 840
acgccggctg gaaggtcatg caat 864

<210> 2943
<211> 1068
<212> DNA
<213> A.fumigatus

<400> 2943
cgcggttcct tcgccccccg tggtgaggac gaaattgcaa agatgcaggc ggaggcagga 60
ggaaacggga atgagatgga cgactacgcg cgggtcactt cagcgttcga agtgacgaca 120
ttagacgatg gcgaggaaca aggggaacca gaggataagg aagacccgga gcacttggtt 180
ggttttgcac gactgtactc aggcactctc tctgttggtg atgaggtcta tgtgctggca 240
cccaaattct ctccggagca tcctcatgca caccctgagc cacagaaggt gacagttacg 300
gatctatatc tccttatggg caggagcctg gagccgctca agaccgttcc cgcgggagtg 360
attttcggta tcggtggcct tgcaggtcat attctcaaga acggaacact ttgctcgcag 420
cttgaaggaa gtatcaactt ggctggcgtc tcgctaaacg ccccaccgat tgtaagagtt 480
tcgcttgagc cggccaaccc tgcagacctg aacaagatgg ttaccggtct gcgccttctc 540
gaacaaagtg acccatgtgc acaatatgag gtcctcccta gtggtgagca tgtgatcctg 600
actgccggtg aattgcatct tgagcgctgc ataaaagatc tccgcgagcg ctttgccaaa 660
tgcgagatcc aaaccggtca gacaatcgta ccatacaggg aaacaattgt cagcgcgccg 720
gaaatggcgc ctccaaagaa accagacctt ggccgaggat gtgtgttggc cgtttctcct 780
tcgaaacaat tgactgtgaa gttgcgcgtt gtgcccttac ctgaagcagt gacggacttc 840
atctccaaga acgttggaac aatcaagcgt ctccagtccg agaaacgctc agcgggtgag 900
accaaatccg atgcgaaagc aagcaacggg tccttggaga ccacacaaca ggcagagtcc 960
ggcgatgctt ctggagaagc ccgagagggc agtctacttt cccaagaaga catcataagg 1020
gagctcacca ggatcttcaa cgaggaggat aaggagggca aagaataa 1068

<210> 2944
<211> 306
<212> DNA
<213> A.fumigatus

<400> 2944
gctaatcggc gtcccaacat aggaacatgg catcctctgg gacgtgtcac cggtggcacg 60
ttatatcccg gtctcatggt gacgagcggc gtgatctacc atatcttgcg attccttact 120
atccccgtcg atattcgcaa catctgcgtc ctactggcgc caggattctc cggcctgact 180
gcattggcaa tgtacttgct gacatctgag atgtctcctt cgccatctgc aggtcttctt 240
gcagcagctt tcatgggaat cgcccctggt tacatctccc gatcagttgc tgtgaaacta 300
cgataa 306

<210> 2945
<211> 285
<212> DNA
<213> A.fumigatus

<400> 2945
ctgatcactt tctttctacc aggcttcgag agtatcatcc acgaatgtaa gtataggtca 60
attgtatacc tacggccttc ggcctttaac ggacctcgct tggacgaatt gatactgatg 120
ctccgtgata tagttgaccc gtggttcaac ttccgagcaa caaaatactt agtacagaat 180
ggtttctata gcttttggga ttggtttgat gaccgtatgt ggttccccac cgcacaagag 240
tgcatgaagc aacaggtcac ctgtcctgga gtgcttctag gctaa 285

<210> 2946
<211> 183
<212> DNA
<213> A.fumigatus

<400> 2946

acgcggacct tccaccccgt ggtgaagatc tgggcggaac aaacggatct gacccttctt 60
atccttgtaa gccttcatac cctcgaaaca ctcgaaagca taatggaaca cgcaagccga 120
agggtcgagg ctaaggtttt ggtacggaac gatgcgagga gcgttccaac cattggccgc 180
tga 183

<210> 2947
<211> 315
<212> DNA
<213> A.fumigatus

<400> 2947
ggagctggtg gcaccaaaag atcttgtgtt cggaaagacc ttcactggta tggctcctta 60
ttctccggaa tacgtgccaa tctaggcact aatgcgaata tttctgtaga tcatatgctt 120
tccattgaat ggtcagcggc caatggttgg aacgctcctc gcatcgttcc gtaccaaaac 180
cttagcctcg acccttcggc ttgcgtgttc cattatgctt tcgagtgttt cgagggtatg 240
aaggcttaca aggataagaa gggtcagatc cgtttgttcc gcccagatct tcaccacggg 300
gtggaaggtc cgcgt 315

<210> 2948
<211> 888
<212> DNA
<213> A.fumigatus

<400> 2948
aagcgaaact attgtccagt cccgtctgtt aagacaaact ggccaacctg gaaacacgtc 60
cacaagcatc tgaccggcta cctgcgaatg caaactggca atctgccctc tggcttggac 120
ccgtctccgg atcttcaagc aattgcggaa aagaactcgg tgaaggaaac caacaagctc 180
ctgaaactgc tcctgatcgc tgtcattcgc tcgccaaacc cagagagatt cgtcaaccaa 240
atccaggatt tgagcctaca ggcacaggaa gggctcaaga tcgcaatcga ggagtcgaac 300
ggggaattaa ttccaagtga tgtcgaggac gaaaccaccg aagacaccaa gaaacaggat 360
ctttcggtgg atctcgagct acaatttgaa gaacgagtgg gaaaggtgat tgcggagaac 420
gatcgcttga cgcatgaaaa gaaagagttg gagaaagcgc tggaagatct acacaaccga 480
ctagcgcgcc tccaggaaaa caatgacact ctgcagagcc gtcttgcttc aacggaggat 540
cgcttggtga cgctgaagtc cggaaaaggc gacattgggg tcagtgcaaa ggcattggag 600
tcgaagacgc gtcagcagga ggatttgatt gcctcccagg aggagcgaat cgccgcagcg 660
caggatgaga ttgacacctt gcgcatgacg gtggagtctc tacatgtcaa gaatcagcgc 720
ttccagaaat tacaagatga ctatgatgaa ctcaagaccg acagggacca acttgcacga 780
aaagccaatg cagcggaaaa ataccgccaa aagctgcagg ccagtcaggc ctttgagaaa 840
gagcaccaac tgcccctacg gaaatcacct atccgcgctt cattgtag 888

<210> 2949
<211> 294
<212> DNA
<213> A.fumigatus

<400> 2949
cgttatggcc cgcggacata tcacaggctc acagcagttg gccagtggtc tttgcatcca 60
ttctttggcc gatcttcatc tgagatctac tccaaatacc agaaagttta cgagtctagg 120
tattaccata ttcagatttc agccgctcag gctcaactgg gtcaccacta cagtccattg 180
ttccacttca atacaatagt tacttttagt ttctgcaaat tgtcagctgt caacttgtca 240
ggactccgta atcctcagtc ttcaccacgg ggctggaagg atcagcgctg tcga 294

<210> 2950
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (174),(183)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2950
ttccactgta tagttttcgc tggaaaggat ccctcccggg cccttgcctg ctcgtctctg 60
aagcctgagg attgcaggcc ggattggtat gatttggatg ataaagagaa gacggtgctg 120
agtgaatggt ttaccttctt cagcaagaaa atacatatcc tccggaaggt gaangatgct 180
acnaactact attgcccctg a 201

<210> 2951
<211> 234
<212> DNA
<213> A.fumigatus

<400> 2951
ccccatcact atggaggaat tgtccaaatg cgacggtatg tgattttctc ggttggattc 60
gtcaatgatg gaaaacaact aactgatgcg ctttttgcag gcacggatcc cagccggcca 120
actctcgtcg cgattaaggg aattgtgttt gatgtgagca agaatccagc ttatggcccc 180
aatggccagt atcgcggtag gttgattctt cccctcccgt gcgctgcaaa ataa 234

<210> 2952
<211> 246
<212> DNA
<213> A.fumigatus

<400> 2952
attacaagtg tatgcggcct acctagtcaa agtggtgact ctgtcagggt gatggtgatt 60
tcgctactac gttactacct tacggactac attggggtat acagaacccg cgttgctagt 120
ttgaaaagta ccgcatctag attgaaggta tacaatgatc cctacattcc tcccagtatt 180
ctagaagacg cctctaaagt cccattcaat aagcgacaag tgacagttgt aaacggtagt 240
ctctag 246

<210> 2953
<211> 561
<212> DNA
<213> A.fumigatus

<400> 2953
atagagcccc cgttggacct cctcttcccc gcggtgaaga cctccgggaa atggaacaaa 60
atgcctatcc tgactggctt caacacaaac gaaggaacat actacgtccc gtccgcaatg 120
tcgcatcggc gaatgggaag cttcttccgc accttgctcc ctgcctactc ggacaaagat 180
atcaggacca tcgacgagct ctacccagac cccgcggtgg acccgtcctc cccatatcgc 240
gaaactagaa gcatacctgt cggaccgcag tataagcgcg tcgaagccgc gtacggtcat 300
tacgcatatg cctgtccggt gaggcagacc gcgactctcg cctcggcggg acaagaggag 360
cccgtgtttc tgtatcgctg ggcgctgaat aagacggttc agggggcgc gaaccatggt 420
gatcagatgg agtatgagac gtataatccg gaggtgcgag gaatctcgag cagtcaggat 480
gagatcgcgg ggacgtttca tgcctacatc acttcgttta ttgtggctgg ggatccgaat 540
gcggttgggg ggaaagtata a 561

<210> 2954
<211> 1089
<212> DNA
<213> A.fumigatus

<400> 2954
ctggatggcg ccgggttgat agctcgtcaa gtcggcttac agcactcgca tgtgctcatt 60
cactgctcgg atggatggga tcgcacgggg cagttgagcg ctctgagtca aatatgtctt 120
gatccgtact ttaggacgat ggaagggttt atggtacttg tggagaagga ctggctttcc 180
tttggtcaca tgttccggca cagaacgggt cctttgagca gcgaaaagtg gtttcaaatt 240
gaaaacgaaa gaattggggg tgattccggc cgtccattcg gagagggcgg tggtgcaagc 300
aaagccatag agaatgcttt cctcagcgca aaaggatttt ttaacagaga caacacgagc 360
cgcgattctc tcccagattc ggaaggggag atgcaaaatt atgactccga cagtccccga 420
aagccaggtt ccgcccccag aagcgttgtc tccgaaaagg aggtaaccaa ggtaaaggaa 480
acaagtcctg tctttcatca gttcctggat gcgacctacc aattgttata ccaatatccg 540
acacgattcg aattcaacga gcgctttctt aggcggctgc tctaccatct ctactcatgc 600
caatatggca cattcctctt caatagtgaa aaggagcggg tagagatgaa ggcgaaagaa 660
cgcactcgga gcgtgtggga ttacttcctt gcccggagag agcaatttct caatcccaag 720
tatgatcctc tagtagacga tcataagcgc ggcaaggaac gcctgatctt cccacgtatc 780
aatgaagtca gatggtggag cgaagcattt ggccggacag atgcggagat gaacggagtc 840
cgctctgcca gcgtcactcc ctctgtccgt cgtggtagtc ccgcctctga gtcaacgccg 900
gtcctgacag gtattgagac agcccatcat gctgtcggaa gcggagcttc tggcaatgta 960
accaacaacg ctacctcgac cggaatggca gcagtagcct caggaatctc aaatcttagt 1020
ttctcaaagg gaaaggagag ctctcaggag ccgaaaaatc tgagtcagat ggagcttgaa 1080
atgcaatag 1089

<210> 2955
<211> 1017
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1011)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2955
cacttcgatg cggatgatgc aaccatgtct gccttcgacc cctccaacgt tgacctcaac 60
accgccagca aagaagatgt catctgcttc ctctcgttgt cggaaaatga gtacaacggc 120
cacctaggcg cgcgcatctc ctccatcttc gtcatcttta tcacgtctac cgtatttacc 180
ctcttcccgg tggtggccca gcgactcccc cagtggcgta ttccccatca tgtatacctg 240
ttcgggcgat actttgggac tggcgtcatc gtggcgactg cgttcatcca cctgctggac 300
cccgcctacc aaagcatcgg accaggaaca tgtatcggca tgtccggcgc ctggggcgag 360
tactcctggt gcgccgcaat tgtcctctcg tccgtcatac tggtctttct cctggatgtc 420
ggggcggagg tgtacgtcga gtggaagtac agtgtcccgc gagaagcgaa tgccaccgcg 480
acgttcatca cccagcccgc atgctcaagc ccgcacgaat catccgacag actgacagcg 540
acggaaccgt catccccaac cggaggcaag gatctctatc cccacgccga cgagctctcg 600
gtagcctccg aacaggcctt ccgccaggac atcgccgcct tcctgatcct cgaattcggc 660
atcatcttcc attcggtcat catcgggctt aacctcggcg tggccggcga cgagttcgca 720
acgctctacc ctgtcctagt cttccaccag tccttcgagg gattggggat cggagctcgc 780
atgtcagcgc tccatttcgg ccgacgccgc tggctgcctt ggattctctg cctggcatac 840
gggctcacca cgccagttgc cattgcgatt gggctcggtg tacgcacgtc gtacagcccc 900
ggctcgagga cggccctgac cgtgcagggg gtgctcgacg cgctatcggc agggatcttg 960
atatacagtg ggttgggtct tcaccacggg gctggaaggg tccacgcact naaaagc 1017

<210> 2956
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2956
atatttccgc agcctgctgg ccgcaaggca ccttcgggag ccaacacaat ttctgccaaa 60
caggagggcc ttgacagttc ggacactgac aacccttacg ttgcagaacc gggaaagagc 120
gtaaagggtg aaggggagac ggactccgtc aagctgaagg gaactgttga ccctgctcgg 180
ccacagcgat ga 192

<210> 2957
<211> 228
<212> DNA
<213> A.fumigatus

<400> 2957
accaccttcg tcaagcgcca ccttactggt gaattcgaaa agaagtacat cgcaaccctc 60
ggtgtcgaag tgcaccctct gaccttcacc accgtatgcc ccgccaacaa ccccgctcta 120
tcgttccact ttgcttctcc gggccgacta acctttcgcg atagaacctg ggaacgattc 180
agttcgatgt atgggacaca gctggtcagg agaagttcgg cggtctga 228

<210> 2958
<211> 264
<212> DNA
<213> A.fumigatus

<400> 2958
cctgaaggga aaggtcggca ctgtcatgca ttggaatctt acacaactag tagtttagat 60
gcttatcaca atttttctcc ctttttcctt tcctttctcg caaacgataa ctctatttac 120
gatgaacaaa aagcaaatct gttgacaggt tttggccacc tacggatggc cgaaaaaaat 180
tttcataccg tctctttgct tcaaggggtt tactccttac tcccacacac agccttacag 240
cgtaagccac tgtacggcaa atag 264

<210> 2959
<211> 186
<212> DNA
<213> A.fumigatus

<400> 2959
catcttgttg attccctgga attccaagga acagcatctt caattaatag ctttattatg 60
ggtgatgtca taggctttct tttgggaata ggtccgatga acagcattta tgtctcaacc 120
acttgtatac aacatctagg aactacatca cttggacaac tacttaagca gcttcgtgtt 180
ttcatt 186

<210> 2960
<211> 288
<212> DNA
<213> A.fumigatus

<400> 2960
gttattgtcg gcttactggg gagtgatggc catactgaac atcacgaaac aggtgacctc 60
gtccgtgtct gcgagaacat ccccatcgtt ctctgcggca acaaagtcga tgttaaggag 120
cgcaaggtga aagccaagac cattactttc caccgcaaga agaacctcca gtactacgat 180
atctcggcca agtccaacta caacttcgag aagcccttcc tgtggctcgc ccgcaagcta 240
gtcggcaacg ccgccctggt gagttttcgt gcctatatag tcttgtga 288

<210> 2961
<211> 288
<212> DNA
<213> A.fumigatus

<400> 2961
aacctgggaa cgattcagtt cgatgtatgg gacacagctg gtcaggagaa gttcggcggt 60
ctgagagatg gatactacat caacggccag tgtggtatca tcatgttcga tgtcacctcc 120
cgtatcacgt acaagaacgt ccccaactgg caccgtaagt tattgtcggc ttactgggga 180
gtgatggcca tactgaacat cacgaaacag gtgacctcgt ccgtgtctgc gagaacatcc 240
ccatcgttct ctgcggcaac aaagtcgatg ttaaggagcg caaggtga 288

<210> 2962
<211> 207
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (123),(150)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2962
ctcaccccac tttcgtcatt ctccagacgc aattatctgc attcgaccac ttttcgtgct 60
gatatcacag ccaagcaacc taagacggta caccgaacca aattgggcat cgtccatatc 120
gtnccagtcc caatcaaacc caccacccan tcagaagtca tcaaagacga ttgtcccgaa 180
cctttcccaa ttccaggcaa atactga 207

<210> 2963
<211> 660
<212> DNA
<213> A.fumigatus

<400> 2963
cgtgaaaatc tcgcagtccc acctggtgat ccaggatcgt acaagtcccc ctttttaag 60
gattttattc atctgaatgt tgccatgatg acatcgaata acgcgcttgt tcctgatcca 120
gacaaacaag atgaccttgc gtcaaaattc tggcaatggc ccatacttaa tgtgggcctt 180
cgtatgtgct cctgggatga caacaccatt aagtattacc tcctcggaaa tccctttgtc 240
tactggggca gtacattcag tctcggagtt tttggactct taatattctg gtatctcgcc 300
cgctggcagc ggggttacaa ggatctcaat caagcggaca tcgatcacat ccattattcc 360
ggcttctatc ctcttctcgg atggatccta cactacttcc ctttcataat catggctcgg 420
gtgacctacg ttcaccatta ttaccctgcg ctctactatg ccatactcac cttcggtttt 480
tgtgtcgact ggcttactca gaaaatgagt cctgtggctc gtgggtctct gtatgccttc 540
ctttacgtga tcattatcgg gatgtttgtt cattttcggg tcattgtgtt cggcattgag 600
ggacctagcc agcagtgggc caatctgaac tggctgagcg gttggcggat tgcgaattga 660

<210> 2964
<211> 252
<212> DNA
<213> A.fumigatus

<400> 2964
tactctataa gaagtcactt ggtcacacgg ctgagttttc aacagggaaa tggctatgca 60
cttctacgac tatatgggga cgttacaatc gaaaaggatg ctggtgttga tactctgttc 120
ttcccatttg ggcttgtgaa agtcgcgggg gaggggctac aacttgggaa ctatatgcgg 180
tttaaggaaa cgaaatattt taacgccagc gtggactgcc tcattgttac tgttcctcag 240
acaacagcat ga 252

<210> 2965
<211> 183

<212> DNA
<213> A.fumigatus

<400> 2965
tgttcaccta ccacaaaagg aaatctctat ggtgcacttc aagttgatat gacccaggca 60
tcggagcaga aagctcctag acatttgtgc acagaactcc cgtgcgcgaa gctatctgac 120
aggaagaaag gtgcctatag cgatgcaggg tatatgctca ggccgtatag agtccactat 180
taa 183

<210> 2966
<211> 282
<212> DNA
<213> A.fumigatus

<400> 2966
aacaagagtg cgggtgaatt tcccgcgggt tcagtaggag gtgcattggc acccgcggct 60
cccaagtttt ccatgtcact taacaacaat aagccgaaga atgttttcgc agccatggca 120
aagaagaatc ccttagcagg aaagaaaggg ccagtgttgg aacaacctaa gaagatgacc 180
gagcaggagc gcatcatgaa ggaggagatg gaagcgatgg agcgcaagcg tatgcgagca 240
ggttcgggct ttccaaatgc caagcgtccg aagatctcct aa 282

<210> 2967
<211> 198
<212> DNA
<213> A.fumigatus

<400> 2967
ttatctattc tttttggcat ctcgacagag gactctttca tcagtttatc atacaataac 60
caaagttcaa tcgcagtagc caataccact atgatctcct ctaattttgc ccatcacggc 120
tacatcgctt attgcccctc gtttgctgta atcttgacga ccagcagact ttggtttaga 180
acttgcagga ggccgtaa 198

<210> 2968
<211> 192
<212> DNA
<213> A.fumigatus

<400> 2968
gctggacctc cagaccttat ctatttttac ccgcatgcta ccaccacatc tactaccact 60
accggatgcg cagtcggata tgggcagcat cgaccaagat ggtttatact tgcaaagata 120
tatctaagtt cccaatcgaa ccaacaattt gatgatgagg tcaactattt ggcgtacaca 180
aagccattct aa 192

<210> 2969
<211> 375
<212> DNA
<213> A.fumigatus

<400> 2969
cgcggatcct tccggccccg tggtgaagac agatggcaca gggcggaaat gcaagtgacc 60
aaggggggaga atttgatcaa gcacgaagcc gagattatgt cgcggccgaa gcgcacttgg 120
ttcgagactg aacgtgacaa gcgtgcggcg cgcaaattgg gtgctaccga gctcaacgga 180
ccatctaaga aggataaagt aaagctgagc aacaaggata agaaacggct tgacgacgcg 240
cgccagcgtc atgagggcaa tattggttgg aagaagggca aggctgaccg agaggctccc 300
aagcagggta agaataaggg gggcaaaacc aaaagtgaca agaaaaataa gatcaagatg 360
aagggaaaga aatga 375

<210> 2970
<211> 552
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (52)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2970
gacccatggc ctccgggaac ttttttttt cacctgttcc actctggctt tngttttcca 60
tggcaggata cgttcccttt ttctccggcc aggcccgcga ttggatcttt ggcggatact 120
cggagtcaag agatggaggt gtacaccggt gttagggcag caagttccag gaatgcagct 180
ccaccggccg atgtcaagat acacactatc tttcccatgg gcattctcag ccctggcttt 240
gacaacgagc aaggactcaa gcctcaactt acaaaggagc tggaagctgc cgataagccg 300
cagcgtccga tcgaagtcgc caaggcatcg attcaaggct tggagaaggg cgactattta 360
attactacga tgttcgtcgg ccacatgatg aaagcgagcg ctcttggtgc cagccctagg 420
aattcaatca ttaccgacac tctgaccagc tggctcagta gtctggtatt cctgcaggtg 480
attcctgatc tccgaaagaa ggctttcaat tggggcttga agaatggcgt tccatcatct 540
cagtcgaagt ag 552

<210> 2971
<211> 1344
<212> DNA
<213> A.fumigatus

<400> 2971
tcgacgcggt cctgccagcc cgtgctgaag acaaccccta tgctgggaac agatgccgct 60
gtaggagatg cagagcgccg aggtcgccct cgaccttcat tatcggaacg gactattgag 120
acattatccc ggatccctcc atcacctggc cctccgagca ggcaatctag tttcttcaat 180
ggcaacagcc cggtacggtc cccgtctcgg acaccatctg tgatgacctc aagatcacct 240
tcgagggcat caactacgcg gcaacctagc gagaatgatt ttctttcaca acaagcgtct 300
gcaatacaac ttccttcgag gtctaggata tcacccgctc cgactttgtc ttcaaacgac 360
gcttctaccg gccagagaac atcgtcggct ggtactgaca tctcttcgac cttgaagaag 420
ccatctgtaa gagcaagttt atataacgga gttaatgata cgacaagaaa gtcgccagat 480
cctcgcccag ctctgggcaa gacgtccgca aacgctacgt tttcagacat gggacctccg 540
cctcctccac tccatgtgaa aaagacaagg aaatctctgg cgaacaattc cagccctata 600
aataactcga gaaagccatc aaccccgctg aatgcgccgg atctctcgat agagcaacag 660
tcggaaatag aaatgagaaa ggcttccaag tcatccagcg cattaaggga gagcattgct 720
aaggcgaaag ccgcgcgcaa agcctccgca aggcagaaca atactcaaaa cggctccgtt 780
gatatctttg ataacctcaa cgttgaagat cccttcaatc aacagcccaa agactcaaaa 840
agtgggttgc tccgcaagcg tgtggaagca gggcggacct cgggccattt gaacattgca 900
gccatgtcat tgacagagat accgaaagag gtcatggcta tgtatgactt cgatcctaac 960
tcgacgacgg attggtatga gagcgtagat cttgtcaagt tcatcgctgc ggacaatgaa 1020
tttgttgagc tgtcggaggc agcctttccc gacatcgatc cgttcgatat cgattccgac 1080
aaagacgaac gaggcaatca gtttgctgga ctggaaataa tggatcttca tggcaaccag 1140
ctgcgcaccc ttccaatggg gttcagaaga ctacaaagac ttcacactct gactctgtcc 1200
aataacaaat tggacgcgga aagcattcag atcgtcatgc aaatggaggc tttgaaagac 1260
ttgaaactag caaacaatct cttggagggt tcgttctcct cagtcttcac cacggggctg 1320
gaaggatcag gggggtgcta ttgg 1344

<210> 2972
<211> 243
<212> DNA

<213> A.fumigatus

<400> 2972
cgtccgctca aggttagagg actaataccc atcaggctgt gcctgtcctg ccatttgcat 60
tggtggagaa ggctcacatc catgaacggg acggtaggca tccaatgtgc ttttcgcttt 120
tatctgtcct atactaacac aatcctagtg caggcgtggg tttctatcct cttggccgtc 180
catggtgcgg gcattgccgt cggctcacgt gagtctcttt ggaagtacct ttgctcaagc 240
tga 243

<210> 2973
<211> 432
<212> DNA
<213> A.fumigatus

<400> 2973
gtctctttgg aagtaccttt gctcaagctg atatgcgatc cgatagcaat atgcgcatgt 60
tgggcggata ggagcgccac tcggcggtgg ccatatctag ctggtctcct gggactggtg 120
ggcgctacct tgattctctc cttctcggaa tcggtctcgc tatttgtcgt cggccgctta 180
ttgcaaggcc tgtctggggc agtggcatgg acagtgcccc tggctattat cactgaccgc 240
gttggagtca ctcaagtggg accctacttg ggatacatga ctctgggacg aagtgctggc 300
atgtcggctg ggcctatctt cggtggcttg gttttcctct actggggata ctttaggacc 360
tacgtgaccg cattcattat tctcggcatc gacattgctc tgcgtctact tctggtccaa 420
ggtccgcaat ag 432

<210> 2974
<211> 390
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (78)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2974
gaatcttccc atccgcctaa cctatatact cctctcgatt ccccgtcgtc tcctcccttc 60
cccacacacg cccgtcgnga caccatgaag acctcatggg cgttggccac tttggtcgcg 120
ctcgcctccg caaagggctc caagggtgcg cagtgccgtt gcttgcccgg tgacagctgc 180
tggccctctc ctgcctcgtg ggccgcgctc aactccactg ttggtggtcg tctggtcgct 240
accgtcccta tcggatcgcc ctgccatgat cccacctacg atgcggccgc ctgtgcggcg 300
ttgcgggatg cctggaatct tcctcaaact cagtatgtcg aactgcgcta tgctggcatg 360
ctccatcgca acaagggaag ggaaagctga 390

<210> 2975
<211> 759
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (555),(625),(701)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2975
gtaagttggt tagggaacaa ggatggccga gagactgcta acgggaggtg cagttacttt 60
gctcgctcgt ctggtgctgg tgctctttct gtttggatgc accacttcaa cgacatccaa 120

tacaaggatt ggtccgactc tcactacaaa ggtcccgcat tcaaggtggg cgctggtgtg 180
atgggcttcc aggtgctgga ggcagctcac gccaggggtc tggtggtggt cggaggtgaa 240
tgtcctaccg tcggtctggc tggtggatat atccagggag gtggacactc cgccctcagc 300
acctcctacg gactgggggc cgataacgcc ttggagttcc aagtggtcac ggccgctgga 360
aagctggtca cggccaaccg gtccacaaac cccgacctct tctgggctat cagcggtggg 420
ggtgccggca actacggtgt ggtcatctcg gccaccatca aggcgcaccc cgacgccacg 480
gtggccggcg ctggtttgca gttcctctcc agcaagacga ccgcagacaa gttctacgag 540
gctatcctcg agttncacgg tctggtaccc gaaatgatcg atgccgtgcc accgtcatct 600
accaggtcgc tttcttcttc tttgncatca accctattca ccgcgtacca ccaagacgac 660
ggacgatgtc aagaactttg ttggcgcccc tcattaacgt nctggatttc cctgaacttc 720
cccttcactg tttctattcc aaggtcgctt atactttga 759

<210> 2976
<211> 543
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (8)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2976
tacgctgntc cttgccgccg gctggtgaag actgttccct cgagctcctt caatggtgat 60
gcacccctgc attcacctgc cttttcgcac tttcggcact ctagcatcga cacccgacct 120
tccaccgccg aagccaagtt gcatgaggac gatgaagcgg atttggccgc tgccattggc 180
ctctgcaatt tcggaacgcc gcgcactgga ccggtgccga tgtcccctgg cattcccccg 240
gtacccccgc tcccgtctcg ctacctcgat cttagcaacg gtactggcag cattagtcaa 300
agtctggacc ctgccgctac tgtcaatgcc acttcgtctc tcaccgagtc caccccgaac 360
atcttcctct ctgtatcata taacccatca ctctcctaca agatctccga cgagcgggag 420
gtgaaaatgg gtgatgcgga tcgcgtgcaa aggcagaacc gcaatgccga tgttgacttc 480
agcaaccgtc ctgctcatgc ggatgacgat gacgatggcg tctttggtcg catggaggag 540
tag 543

<210> 2977
<211> 243
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (89)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2977
ggtttgcggg ggtcccaatc aagggccccc aaggaatatc tcctttccaa ttttttctct 60
tcctcacaca cccctaaaat ctctccctna aaaaacatat ctttttttcct ctccccttc 120
cccctcaata aatctcctca ctcccgctcc ctccttaaaa tttctttttt gtcctttct 180
ccccaaattt tcacctcgta tccgttctgc gtgccctttt atcgcctccg cttgtctatc 240
taa 243

<210> 2978
<211> 561
<212> DNA
<213> A.fumigatus

<400> 2978
ttatcaccgg cttctttaat gagagcttgg atttcaacct ctcgaacagc tatatcggcc 60
ttctccttcc tcaggtcttc cattcggttg atcatctgcg tccttgactt ctccaagacg 120
gccaacatcg tgcgcaatcg ttctagactt gtcgaaagac gaggtagtga agttatctta 180
ggcggagtcc ttggtctgtt aatatggtct ctgccgccgc taccgattgc agcccttgtc 240
tgtgcggctt catatgcagc cttctcttct aggtctgaat catcctcatc agaaatggct 300
tcagcctcct caatgagttc ccgcatctgt tcccgctgct tcatcttctg ctcgcgctca 360
gccttctttc ctaatgagat tcgaccgtcc tccacatatt cgtcaaatcc ctcggcgaaa 420
tcttcgtctt cgcgaataag cctggtatcg cgcatgtctt ctttttcggt ctttttaga 480
ccccattcct cgtcgctcat gttttcctcc agagagatga aatcctgctc ttccgtttcc 540
ggaagccatt tcctttggta a 561

<210> 2979
<211> 1002
<212> DNA
<213> A.fumigatus

<400> 2979
ggagttaaaa cacccacaag gaaaaccaag gaaaagggcc cccgggaaac caggcggagg 60
ggtttaattt taacaagagg ttgcgggaaa tttcaaacac cggtgaaagg ccctaagggc 120
cagctaaccg gatggacgga ggaaggaacc aaggaccatt tggaaagttc gatgcggaaa 180
aatatggggg aaagtaaagg aaaggattat ggcgcctttc ggcccatccc ggaggggaag 240
gcggaaatca ggggaaaaag aaaagagggc agaagcccgg tttaccaaag gaaatggctt 300
ccggaaacgg aagagcagga tttcatctct ctggaggaaa acatgagcga cgaggaatgg 360
ggtctaaaaa agaccgaaaa agaagacatg cgcgatacca ggcttattcg cgaagacgaa 420
gatttcgccg agggatttga cgaatatgtg gaggacggtc gaatctcatt aggaaagaag 480
gctgagcgcg agcagaagat gaagcagcgg gaacagatgc gggaactcat tgaggaggct 540
gaagccattt ctgatgagga tgattcagac ctagaagaga aggctgcata tgaagccgca 600
cagacaaggg ctgcaatcgg tagcggcggc agagaccata ttaacagacc aaggactccg 660
cctaagataa cttcactacc tcgtctttcg acaagtctag aacgattgcg cacgatgttg 720
gccgtcttgg agaagtcaag gacgcagatg atcaaccgaa tggaagacct gaggaaggag 780
aaggccgata tagctgttcg agaggttgaa atccaagctc tcattaaaga agccggtgat 840
aactatgaga gactgagaca agaagccggc ctcacacctg gttccgagga ggatctgtca 900
attgctaccg atatcaagaa cgctcgcggg ctcgaaagct tcggcgcttc catagctggc 960
tcggcaggcg actctgggag ccagtcgccg tcatcgactt ga 1002

<210> 2980
<211> 243
<212> DNA
<213> A.fumigatus

<400> 2980
aatccaggtc ttggagcata tataggcttc ctgggggtca tctggttcac atggcttcaa 60
attacattat ttgatatacg attcgctcga gactcggttt ttgaacgaat ttgcaaagct 120
gctcagctgg ctgccatggt aggcttcgcg tctgcgggaa cacgattcac gactcagatc 180
cgcggtgaga acgtttgggc cttccagtcc ttgagtcttc tacttggtgt gttcaccaag 240
ggc 243

<210> 2981
<211> 282
<212> DNA
<213> A.fumigatus

<400> 2981
taccttacct ccctccatat atgtttatat actatccgaa gatattcccc ctgtataatg 60
aaacattccc ccccagccca acaaacccaa cgtcccccac atcctattcc gcctctgtcg 120

gaatccactc cattggcccc gcccatgcac ctcttttcaa tccctccttc catccacctt 180
ccttccctta ataccttccc ccccgcaaat ccccttcttt tatcccccca caatccctcc 240
ccccctttc ctaacttttg cgaaaagccc tctcctccca cc 282

<210> 2982
<211> 564
<212> DNA
<213> A.fumigatus

<400> 2982
gttcggacgg gcgtgcaact cgctatcatc gccgcagttg cattgctcct tgtggtgatt 60
ctagataaca aattccgtgt gctaccggcg tccatccatg gccaccttcc cacgcattat 120
gctggctacg tcgttaccga tgtgaccgtg gttacatgct cttccatcag catttttcc 180
agttgcaaag ttgacccgaa ggcatggtct agaattgaaa aggacctata tctgcgctct 240
gggtggacat ccagtgctta cgtacaattc caacggaaga aggaagagga actcctcgca 300
tctgacaagg tggtgatcga cttgaagata agccggctga taccgcaatc ctcgaatgac 360
ccacatggag agaaaattga atgggagcag aggccaggtg gcatctggct gaagcggacg 420
gccaagcgcc atgcgagtga ctcgcagaaa gcgatcacct cgatcgatgt tttgttcggc 480
gcggacgcgg ttgatccacg tgtgggctgg gaggtgaaag acactccgct gccgctggtc 540
ttcacctacg ggaatggacg gatc 564

<210> 2983
<211> 255
<212> DNA
<213> A.fumigatus

<400> 2983
tctgatgcag aacgcgaatt ggctgcgtca tccaggctgt ggcttctttc ccttgtttcc 60
ctttctccct tccttaccta ttcttgctat gtttctttct accaattagt ctgcttaggc 120
tcctttcccc cgcgattgtt gattcctttg gaactgaagg atcatctctt tatccatgga 180
tttcttcgca gttgtcaatc taatctaagc tcgctgtttc tttatatctt tagcgtcctc 240
cccattgtcg cctaa 255

<210> 2984
<211> 324
<212> DNA
<213> A.fumigatus

<400> 2984
atcgtcgagt cgacacgtgc ctggcgcgat gcgtggtcat ccatcctgct gcatcaagag 60
cgaatgctct gcgagttcga cggtatctat gctcccatca tcgggtcctc cgatccgacc 120
accgcgaaag ccgctccaac accggaagtc acactagcca ggacgcgcag actgcgagag 180
gaatacgagg agttgcgcaa ggagctggcg gaggagctta atgctgtgga tcagcggatg 240
atcaggcccg cctcgcaggc gaaggagtac ctggctccat tgaagaagac catcaagaag 300
cgggaagatc gcaaggtcgc ttag 324

<210> 2985
<211> 324
<212> DNA
<213> A.fumigatus

<400> 2985
caagtggtgt tcgtgcctcg tggccgtgga aaaggagtag cgagaggcgg gggttcgcgc 60
gcaagcgcca accgtaaaac cactgccccc aaagtggtcg cagctcccgt ggagagtgtg 120
gttgagatcc ccacgcagcc catcgacccc gattctttca gtcggtcctt aggccccact 180
gccaagcaac agcctaccgt cgacttgagc actcaagctg gggccgctcg tggccttgct 240

ggcgcatctc gtggtcgtcg tggagcatcc cgaggacctg ctcgtggtaa caatcgtggt 300
cgaggcaagc tctgggttcc ttga 324

<210> 2986
<211> 756
<212> DNA
<213> A.fumigatus

<400> 2986
cacattctct gccagcaccc gtttctcccc atagcttccg gtacttcgac ctcaccgttg 60
tttcgaagtc gggcgaaaac cttggcttca ctcaccacat ccaagctcgg ttctcagagc 120
gattcgacgc ctaaggagat acatctgcct gaagacccat ttgtcaatgg gcagccaata 180
gaagcctatc tctataaaga tgcaaccgaa tgtccgatat gcttcttata ctatcccccc 240
taccttaacc gcacgagatg ttgcgaccag cctatctgtt cggaatgctt cgttcaaatt 300
aagcgtcccg atccacatcc gccagaacat ggagaagcgg agcccaatgc cgccgcggcg 360
gagggcgacc gtcgggacaa tcaagactgc cagctagtat ctgagcctgc tgcatgtcca 420
ttttgtgtac aacccgaatt tggagtcaca tacactcctc cgcccttccg cagagggctc 480
gtttacgcaa cagatcctac gcttcgcccc aactttactt ctccaatgtc ctcaacgtcg 540
tctttagcat cggccaatgc gtctccaggg acgggccgtc ggcgcgctac ctcgctgtct 600
gccaacgacc ctgcggtcat cacgacagac agagttcgtc ctgattgggc ccaaaaacta 660
gcgaatgccc gggctcatgc tgcgcgaaga tcagctgcgg ccacggctct gcataccgct 720
gcatatctga agaattctac cgaatcaggg aaatga 756

<210> 2987
<211> 486
<212> DNA
<213> A.fumigatus

<400> 2987
aaatctcagt atttcttcca gctcatcggt cactgcaaag atacacagca aatgactacc 60
acagcatcag agaccgcgcg cctacacatc actcctttca ctccggatct cttgccctct 120
gtactaccat cttcgatccg agcgtccgca acagatatat cttttcatag cattgcaaca 180
tttcccgaga acaattacgg ctacgtgacg ctgccggcaa tggaagcaga taagatcaaa 240
aagaaattga atggttccat tctgaaagga cgaaagttta aagtcgagac tgcgcggcca 300
ccgaaacgac aagaagtgga tgttgaaacc gacactgtta tgtccatcag aaagactact 360
tccgacaaag tatcccaaaa gcgcaaggcc aatgacaacg ttctcgatgg atacgagctt 420
ccgtccggcc gtcaagtgaa aagagggtgg acagagtcgg cagatgccaa gaaaggggag 480
acgtaa 486

<210> 2988
<211> 732
<212> DNA
<213> A.fumigatus

<400> 2988
aaagagggtg gacagagtcg gcagatgcca agaaagggga gacgtaagga tgaaaagctg 60
aagaagggaa aagatggcaa aaaggcgaag acccaagtaa aatcgaagta tactgagaag 120
tcagaatgcc tcttccgaac caagataccc aagaaccgat ctgcgtctcc cgatgagaag 180
caggaaaagc agatcaagaa gaaaaagaaa tctccacagg aatccgttgt ccatgagttc 240
gccacgacca tcacccatcc gagcttctta cggtcggaag tagatggagc agcacctaca 300
tctgcatttg aggaaggcaa aggttggata gattctgcag gaaacctcaa agagacggtt 360
agtgaccggc tgagaaaaga ccaatatcgc ccggggcaag tcgccggggc taaggagaag 420
cgaaagtcgg cgaaagctca tccgacagcg caggagacgc accttgagaa aacagaggat 480
gacagaattg actcggcaga tgagtcggag gactggacgt cttctagtgg gacaacgtca 540
tctgatgaca gcagcacaga ctcagaaatc gacgacggca tgtcgtctgc atcttctgaa 600
tcaagcgcgt ctttcaaccg aggcgaacag caacaatcac attcattgac gacgaaggaa 660

aacgtatctt cgcctcggaa gactgatgag tctgagctat gtcttccaca cgccgggcga 720
aggaaccaag ta 732

<210> 2989
<211> 390
<212> DNA
<213> A.fumigatus

<400> 2989
agcatccagt cctgtgagca tcataccaaa ccagaatcac acacttcctt caaggtaagt 60
gagcaaggca ccatcaaacc accctcaacg ctgcaagaga gtgacacgga ccaaacaatc 120
acagacacaa tgaacaaaac ttccactgag ctaatcgctc tcaagtcccc catggccaag 180
cactccagcc tgatcttctt cctccacacg gccgccaaga tcatcatcct cctcgctatc 240
gtggatgtgc tcagagtgct catccgtcag gtgcaggtct accttgatca gcaggcacgc 300
gagcacaacg agatccacgg cccgcagaga gttcgtcttg tccgtcgccg tcgccgcctg 360
gacgacgata tctttggatt tcctttctag 390

<210> 2990
<211> 219
<212> DNA
<213> A.fumigatus

<400> 2990
catgatgaga ttaaaaccca attctctagg cactataatc accagcgtgc taaatgcaaa 60
gatccaaaga tcatcctaga atggttcaat catgtccaga ttataatcat gcaatatggg 120
attataccta aagatatcta caactttaat gaaactggct ttgtaatggg cttagtagct 180
actgctaagg tagttataag agctaagatg cttagttag 219

<210> 2991
<211> 684
<212> DNA
<213> A.fumigatus

<400> 2991
cgcacggtgt ccgctcgtca agcataccgt cgcatccgca gagtcctcca attacagtgg 60
cgaggcgtaa ctctggtctt gatcatcatc gcgaatgtga ttttcttctc cgtgaccttc 120
atcgagctcg acagctccct caaaccgacc gcggagaata tggaaaaggc gcttccatgg 180
gttgcatgtc tggcagccac caatggtgac cgagaaaaat gcgaccccga ggcggcaaag 240
ttccggccta gcgaagggtt actcctcgcc gtcctggttc tcctttccct ggtcggattc 300
tggaacttca tcctctttgc ccgcccctcg atcttccacg gctgggtcga cttcttccag 360
aacaagtttg gcacgggcga cggccgtctc gagttcgtgt cggctgatgc ccgcacgcgg 420
ctgggcgaca cgcggtccta cgagatgctc aacagcacgg gcctcccctc ctacaaatcg 480
ccatcgccca tggtccgatc gccaagtcct gcgcgcatgg ggggcacgaa gagtcccgag 540
aatggccact ttgggcgaga cgccaggtat gtgcggccgt ccatgagttt ttccagcccg 600
cggccgccca gcgcatcaca agggcgcggc tgggatccca agacaacgtt tgccccggct 660
gtctatcggg aatatgatga ctag 684

<210> 2992
<211> 387
<212> DNA
<213> A.fumigatus

<400> 2992
tggtctatgt gtaggtactt ccttttccag gccggtctga tccccatcat actcctcatg 60
acagatccta ccagcacgga cgcacccgcc tggcttcaag acgtcgaaac caccaagaag 120
cttctcaccc acccttctct aagcaacaac cgtctcgcca ctcgctgtct agaagtcgtg 180

aataggcttt gctcccctac gtatacttcc tccgtctcgg acgggtcgac accgatacag 240
ccaccgatgc tgatgcaatt ctcagatcag ctcctcaacg atcccatgtt cgggagtatg 300
ttcccggatg tggaccagga gttaaatcta ggggggatgg atttctccga atgggtgaat 360
tatacgcctc aaactgactt gcactga 387

<210> 2993
<211> 225
<212> DNA
<213> A.fumigatus

<400> 2993
gacgcgcccg gaaatcttgc agacggcgct gaatatgttc tcgatcttct aaacatcctc 60
ttcctgcagc gcatatggct ttttatcaag atctggatcg ccagcctgag tttctcggag 120
ctccgcctcg atctgaacga tgcgctgttt ctcctcatgc gccgctgtgt caccgaagat 180
cagatccata tcttcgagag tctgttaacc ggactctcaa gttag 225

<210> 2994
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2994
cttatactag gaatctatct agatattact tgtactatat ctaagcttac ttactttact 60
aggaatccta gccctaatta ctttattata gtaaagtata tattccacta tctagcagag 120
atacttttac tcttattata ttatccttct atatttagta atgttaatag ttttattaat 180
gctaattag 189

<210> 2995
<211> 717
<212> DNA
<213> A.fumigatus

<400> 2995
aggacgagct ccttcgtcat cctgatctcc aacagctaca agttgaagga ctggcatctt 60
tatatttact ggcctctggc cacatcaatc ggtatgccct cgtcgcctac cagtgaccga 120
aacgatttac tgctgaatgt gactatacta actttcatac tttttagagc atggaaactg 180
tctggcagtg cgatgcgcgg ggcctttgct ttggggttgc atctacgcaa tgtgggaatc 240
tgtacatcag atacttccaa ggagatcaga taccgtgttt ggtggtcttt gtacaccctc 300
gatcatttgc tcagtgcgat gacgggacgg ccgtcgtgta tcgtcgataa ctcatgcacc 360
actcccttac cggtaccgtt cgatgagcct gattttcaga aagaagaggt ggtgcgcatg 420
ataggtgatg catcaagagg caactcgaac cagctggacc ggatctctcc agtctgtcca 480
agcgcatctg atctgagcac taccctggat gctaaaacag ccgacggaac agccaacgcg 540
aaaacttcag gaagtagcat ggtagagtac ttgaagagcc tccctccttg catgtcatta 600
tatttcattc agctctccac gctcacttca atcaacaaga ggatgacttc caaattatat 660
ggtcccgagg cgatgcattc tccttggcca agcaaagaat tcacaatcca gagcctg 717

<210> 2996
<211> 477
<212> DNA
<213> A.fumigatus

<400> 2996
agacggcttg gctggtcctc tccacggatt gtaagcggcc cctggtgtga actcgccgtc 60
cttgaagagt tttcgtttac taataattgt gtttttttca ccaacagggc caaccaggaa 120
gtgctcaact ggctcactaa gatgaagaag agcattggca acgacctcag cgaccaggcc 180
atcaaggatt acctctggtc caccctgaac gccggccagg ttgttcctgg ctatggccac 240

gccgtccttc gtaagaccga tcctcgctac gtctctcagc gcgagtttgc tcttcgcaag 300
cttcctgatg acccaatgtt caagctggtc agccaggtct acaagattgc tcctggtgtc 360
ctgaccgagc atggcaagac caagaacccc taccccaacg ttgacgccgt aagttcctcc 420
cttctcatga ttgattcagg tatggcgagc gatcatggta gactgaccca tctttag 477

<210> 2997
<211> 189
<212> DNA
<213> A.fumigatus

<400> 2997
cactctggtg ttcttctcca gtactacggc ctgaccgagg ccaactacta caccgtcctg 60
ttcggtgtct cccgtgccct cggtgtcctg ccccagctga tcatcgaccg tgctctcggt 120
gcacccattg agcgccccaa gagtttcagc actgaggcat acgccaagct cgttggagct 180
aagctgtaa 189

<210> 2998
<211> 1212
<212> DNA
<213> A.fumigatus

<400> 2998
ttgtttggtc tccttttgtt tactacgttc tggggagatc aagtccgctc ttttgttgca 60
gctatcctcc gaagctggat cgcccgtgaa ggcaagatgg cgcgtctggg ccgctttggg 120
tttctcgccc tcgcggtggt gttccatctt atatatgctt attccatatt tgacatttac 180
tttgtcagcc cgattgtgag cggcatgaga tcgtatggcg ttgagcgaga acctggagcg 240
aaagcgcccg ccagtcgtct tgtgctcttc gttgccgatg gtttgcgcgc cgacaaggcg 300
tttcagccag ctccagaccc ttctccggaa gacggcgaag atgcagaaaa caacgatcca 360
atctacctcg ctccttttat tcgatcgcgc gtgctctccc acggaacgtt tggcgtctcc 420
cacacccgag tacccaccga gtctcgacct ggacatgttg ctctcattgc aggcctgtat 480
gaagatgtct cggccgtgac gacaggttgg acattgaacc cggtcaactt cgatagtgtc 540
ttcaaccaaa gtctgcatac ttggagctgg gggagtccgg acattctcgc aatgttcaag 600
gagggcgcag ttccgggccg ggttgatgcc gacatgtatg gagaagagat agaggacttt 660
accatggacg caacgcaact ggatacctgg gtcttcaata aagtgaagga gctttttgcc 720
tctgcaaaga gcgatcccga attggatgcg aagctacgtc aggataaggt ggtgttcttc 780
ctgcatcttc tggggctcga taccaccggc cacggctacc gcccttactc cagggaatac 840
ctgcataaca tcaagattgt ggacaaagga gtgcaggaga tagcgactct tatagaagag 900
ttctacggtg acgacaggac ggcgtttgtc ttcaccgcag accatggtat gagcgattgg 960
ggaagccatg gagatggtca tcctgacaat actagaacac ctctggtcgt ctggggatct 1020
ggtgttgctg gtccaaagta cacagatgga aaggctgtca ctggccatga agatggattc 1080
tccgccgatt ggggccttga cggcattcaa cgccatgatg ttgcacaggc cgatgttgct 1140
gctctgatgg cctaccttgc tggcttggat ttccccgtga actctgtcgg tcaattgcca 1200
ctcccaatat at 1212

<210> 2999
<211> 255
<212> DNA
<213> A.fumigatus

<400> 2999
gttcggtgtt gggcgtcccc ctgcgataag tacgaactgt tttcgcctgc tggacattgt 60
tcatcttcaa gttcttactc cagcctcgta gactcagatc tcacaatggc atcccttgct 120
cgttcgactc tccggctccg cgccacttct cgcttccctg tcgcagcccg cacgctcacc 180
acctccccgc acctccgagc agctgcgaag ccttacttcc ccgatgagcc cagcgctcct 240
aaggtggtca ccgcg 255

<210> 3000
<211> 315
<212> DNA
<213> A.fumigatus

<400> 3000
cattttgctg gacaacagaa tttgcgttcg gcggaggaga tggaggagga agagcgggaa 60
gcacaatcgg cgaagctgca ggagctgatc cgccgaggca cgccagcgga tttgcaggaa 120
gccaatcgac tgatgaaggt gatggccggt ttcgacaccc gacacaagac cgactaccgg 180
gccaaggcag ctgaggaagt ggctaaggtg cagcagaagg ctaagatttt ggaggagatg 240
ctacagagcc acaagccggg cgatcggatt gctgaaggcg acgtgtttga ggtgaagatt 300
gcgcccggcg actga 315

<210> 3001
<211> 222
<212> DNA
<213> A.fumigatus

<400> 3001
tcatccgcgg atccttccag ccccgtggtg aagactgaag aatggcggca gactatatgc 60
cagacgtcgc ggtacaagga ggatctgggc catattcgcg acatgcaccg tctgctgtta 120
tacaagggct acatgtttcc tgagatccgt catgaagatg ccgcggtcct gaacccaagc 180
gacgtacgtc cttgtcttcg tggttcccgc cctatggcat ga 222

<210> 3002
<211> 390
<212> DNA
<213> A.fumigatus

<400> 3002
ccaattcgaa tagggaactt gcgagtgcac ttcaaagtgc tcatccgaag attcagaaga 60
tgtgcgaaga aagagtcgga tgaccctgaa gctgttcata aactgctgga gatcaatgac 120
agcattcacc gcaccattga acgttacaag ttggttaaga agggcgacta cgatacggca 180
tccaagatcc ccaagggtac tctaggcact acaacggggg tttcgaagaa cgcaaataac 240
gaactctcct tgatcgattt cgacccggag ccgagctcga acggcaatgc cccgccaccg 300
gcgggggca gttccttgga gaatgacctg cttggcttgt caatagagga gccagtcccc 360
gctggaagta tctcgttggg acctggttag 390

<210> 3003
<211> 468
<212> DNA
<213> A.fumigatus

<400> 3003
cgactgacga tggacatagg aaatctgact acatctgcaa acgcaccgct acaacaagcc 60
cctgcaggat tcaagcccac ttacgatatc atggcttcgt tcaattcgtc ccgacctgtc 120
tcacagtctt cgacgccggc tccccgacca cctcagcaac cgactgcgac ccccacacca 180
ccaccgccgc ctgcgagcga tccttttgca gctcttgtgt ccgcaagccc tcggacctcc 240
agtcccttcc cgcccggagc ttcttcgact cagtcgcccg cagctgcttc gtcggctctc 300
ctcgacttgg tgggagctgg tcctcctacc accgcagcgg ccagtggtag cagtgcccag 360
acccaagacg atgacgagtg gaactttgct tcctcgctgc cggagagcaa cgcccttccg 420
accactaata aagtgtcttc accacggggc tggaaggagc cgcgccat 468

<210> 3004
<211> 957
<212> DNA

<213> A.fumigatus

<400> 3004
tacctaagtg cggatccttc cagcctcgtg gtgaagactc agctggacga cgatcaagat 60
gcctttaacg aggacacgtt cggcgacgtt ggcacaggct cagtcggcaa ggacttcgac 120
tttttcgggc agacagcaaa ggttgcggat gctatcgggg aggagcaagt tcgtttcaat 180
ttacaacact cgggtgctcc tagtgggagc tcggcgaaag agatcgctgc tcagcctcca 240
gcaaccagcg tctcatcaga caaacccaaa cgtactggat atgagaaata ccaggacccg 300
gggtatatcc ctgacctgca agccaaatcc agcgtctggg gcttgcaaaa gaagccagag 360
cctgctcatg agcctgttca cgagcctgca tcgcaaacca agaaaatgtt aagcttggag 420
gaggtcgaag ctcagttacg tagtcgcggt attgcgtcgg tccagccccc ggtctcaatg 480
ccgatgccga tgcccgatct ttcgcatctt caacggaccc aacagctgcc aaacggtccc 540
gaagcctttt cacagctgcc gcccgagttt ctccaggccc agttccccaa agatgtaccg 600
ccagcacatc ttctgcacca tccctccatg gtgccagagc catattctct accacccagt 660
gcgccaaatg tgccattgca tctcctgcat aatgccaatg tccttcccca acatatggca 720
cctccgcagc gtcaggcgat ccccccacga gtgcagcagc ctccaccaca gcatccgcca 780
ccgcaggcta taaagggagc aaataccggc ctgcctttga tcaccaaccc tcagcagctg 840
atgcagttga cagaggaaca acgcatggca tatttaatgg aggatgcgaa gcgggcaaag 900
cgcaatcaca agatattcct cttgtcttca ccacggggct ggaaggagcc gtgccat 957

<210> 3005
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3005
accaccgcgg atccttccag ccccgtggtg aagacgtatg gccatgctag tcctgtgatt 60
attgctggcg gctacaaggc cgactccgcc ctggaggcag tcgactcgcg ctacaagggt 120
tacgacgtgg tgattggtat tggtcgtccg tggacgtcaa accctgactt gccttttaag 180
atcaaggccg ggatccctct tcggccgtac gagagagagt tcttctattt gcccaaggat 240
cctaagggtt acattgacta cgagcccagc gaggagttca aggccacaca ggttgcggct 300
tga 303

<210> 3006
<211> 693
<212> DNA
<213> A.fumigatus

<400> 3006
aaaatgtacc aattcgtaga agtattcaag gacccccgga cgtacttcat cgcggtgatc 60
gtggccgcaa tgaacatatc caacgccgcc atcagcagtt tctccgtgct gatcatcaga 120
agcttcggct acacgaccaa ggaaaccgag ctgctcacca tcccgggcgg tgtggtcagc 180
gttattagca ttgtcacagg cacatatctg gccggtcggt ttgatcagcg atgcctgagc 240
ctcataggga tcctcgcctg cggactcctc ggaggctgct tgatggcatt ctcccatgag 300
ggaatgaaag ccgccgagct agctggcaac tatctgacca cctgtgtcgg ggccgctctg 360
ccgctgatgt actccatctc tggtgctaat gtcgtaggcc acaccaagaa agtcaccctg 420
aatactatcg tgctgatgtc gttctgtctc ggaaatattc taggtccgtt gacgttccgc 480
acggaagacg agccagacta tatgccagcg aagattgcga tcgtggcaac ggtctcagta 540
gcggttgttt tttctgtcct gttgaagcgc tactatatgt atgagaatcg gcgtcgcgac 600
atacaggccg agggacatgg tccggagaac tctgactttt ttggatctga cggacaggga 660
gaatccggtc gtctacggta tagcatgttc tga 693

<210> 3007
<211> 1107
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1025),(1064),(1073),(1089),(1090),(1095),(1096),(1097)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3007
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tatgtcgccg atttcgacag acacaattat tctcatatac ggacggctcg tgttcaacca 120
ccgggatcgt tgttccagaa tagtcaccag gtcgcagtgc atcaaagatc caacgtgcag 180
ccccgtggtc cacacgatgt gacagcatca gcgtaccaaa tgataccgcc agatacggct 240
aatactcccg cgcctttaga gaatcagcat tacggaggtg tgcgatatag gcctgcttat 300
tctccaccat cgtacgcccg tcccaatccc tacatgccat tcccgcaatg gaccatttca 360
ccagtgacca accagcccag acggcaccat cggacgcaga actcctcttc caccgcaagc 420
gcagtgcagg ggcagcagca ggcaacatct gtcggccaca cagcacgccg acgcacgcgc 480
cctgctggtg agacgaatcc gcaactccca cgtcgcctct cgacatctca agtgcccaga 540
gtgccggccg tggcgactgc cacaagctct agtcctggga tggcaatcgg agcaccacat 600
tacctcacgt atctcacgcc agaagatcat gtccggatcc aacgattggc agagctgcaa 660
gcatacacaa gcagtatgcg cactggtagt gtcgtccatg gaagtcaccg acagcactca 720
ctggatgacg atggcatcgg tgatcgtggg tcatcaactc ccaaaggcct cgatgacacg 780
acggacggtc gtcccgaacc caaagaagac aaagatttga ccgtcaatct cgaatgcaag 840
atctgtatga gtcaactcgt ggacaccgtg acaattccat gtggtcacgc gatactctgc 900
cgctggtgcg ctgagcagca cataccgtcc agtcaactcg atcaagctcg ggtcaagggg 960
cgaccccttt gccctatgtg tcgtggagtc gtcaaatcca aggtacggcc tcggattcgg 1020
agagnggata gcgctaacgt tattgttgtc cgtcttcacc acgnggctga agnaggcgcg 1080
ttcaatgtnn aaaannngcc ctctccg 1107

<210> 3008
<211> 198
<212> DNA
<213> A.fumigatus

<400> 3008
ggttcggtca ccaagtttgt tccatacctt gttgctggtg tccagcactc tctgcaagac 60
attggtgtca agagccttga cgagctccac gacggcgtca acaagggcat tgttcgtttc 120
gagatgagaa gcgccagtgc catggccgag ggtaacgtcc acggtctgca cagctacgac 180
aagaagctct actcctaa 198

<210> 3009
<211> 234
<212> DNA
<213> A.fumigatus

<400> 3009
tccagcggca gtgttcagat acaatccgaa tggtttcttc ttgagccaag cttcgaagcg 60
caattattcg tctacgtctt ctctgcgatc tccggcctcc attcaaagtt catggagagg 120
gatatctcgg caccattcac atgcgcgatc gtcattccgc acatgtccgt cttcgcggtt 180
ctattctaca aaaacaccta tcttgccgga ggatatcaag tctcgggaca atag 234

<210> 3010
<211> 879
<212> DNA
<213> A.fumigatus

<400> 3010
ccgcaggttc ggttcaattt cacaaccgtg ggcgatctcc agtctgttga gaaggatacc 60

actattgaca ttattggagt gctgaaagac gtcggggaga ctactcagat cgtatcaaag 120
acgacaagca agccctatga caagcgagag cttaccttag tcgatagctc gggcttttct 180
gttcgtctta ccatctgggg ctccacagca ttgaatttca atgcgacccc agagtctgta 240
attgctttca agggtgtcaa agtctctgat tttggaggac gaagtctgag tctgttgagt 300
tctggttcaa tgactgttga ccctgacata gaagaagctc atcgtctcaa gggttggtat 360
gatgctcaag gcagacacga gacattcgcg tcacatgcca ctatgtccaa tgcatcctcg 420
tctgcaaaga gattggatca cttgaaaaca attgcacagg tacgcgagga acaactaggg 480
atgtcagaag atgcagtata cttctcgctc aaagggactg ttatttacat aaagcaagac 540
aacatgtgct accctgcttg cctctccgaa gggtgcaata aaaaggtgac agaactggat 600
cctggtcaat ggcggtgcga aagctgtgat aaaactcacc cgcgcccaga gtatcgatac 660
atcatgctca tcaatgttag cgatcatact ggccagctct ggctcagttg cttcgatgaa 720
gtcgggaaac aggtaatggg cacgtctgcg gatcagttaa tggatcttcg ccaaaatgga 780
gaaaaggccg ctggagacat tttccaggaa gctaattgtc gaacttggaa cttcagatgt 840
cgggccaagc ttgatcattt cggagatcag caacggtaa 879

<210> 3011
<211> 723
<212> DNA
<213> A.fumigatus

<400> 3011
aaaatcgtgt acaaggtcgt gcaagacaaa gagggtagac ctcgtgtcgt ggaagtggag 60
ctggatgaga atgggaatgt gattaaaaaa gagaagatgg acgacgtgca agacccctct 120
ggccgagagt tcactgagga ggagttgctc attgcaagtc ctgtcgttct ggggttcgcc 180
ttcagtgaga agttgtggct ggagttcagc gtctctggaa tcagcgacat cgactggaac 240
gaggacgcat ttgactctct tgtccttccc gacaaccaaa agtcgatcgt caaggccctt 300
gtcgagtcgc ataccttttcg cgccgcccag aacatcgacg atgtcattca gggtaagggt 360
aaaggccttg tcgcagtgct acatggacca cctggcacgg gcaagaccct gactgccgaa 420
ggtatcgccg agttgctaaa acggcctctg tacatggtca gtgcaggaga actcggaacc 480
gactcaagga ctttggaggc ggaactcaac aagattttgg acatcgccca ctcatggggc 540
gcggtcctgt tgctggatga ggccgatatt ttcctcgaga agcgcacaat ccaggacatc 600
catcgcaacg cccttgtgag catcttcctc cgtctcctcg aatacttcca aggcattctc 660
ttcttgacca ccaaccgcgt ggaaacgtct tcacacacgg cgcctggaag gatccgcgat 720
tgc 723

<210> 3012
<211> 255
<212> DNA
<213> A.fumigatus

<400> 3012
aagcagttac taacttgctt cttaagctct caggcaatgg acgtcggtac cttgaagagc 60
cttcctgccg ataccatccg catcctggtt tggatccttt ctttcttgag cttcggttat 120
gcgacggctg agtttgaggt cacctccgag agactcggag tataccgccc ggaggagcat 180
atcgagtatg tcaatccctt attctgttcg gcgcgtctac gttttggtac tgatgcttct 240
gtccgacttt tgtag 255

<210> 3013
<211> 1266
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1257),(1260)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3013
gcttcggtta tgcgacggct gagtttgagg tcacctccga gagactcgga gtataccgcc 60
cggaggagca tatcgagtat gtcaatccct tattctgttc ggcgcgtcta cgttttggta 120
ctgatgcttc tgtccgactt ttgtagcaat cccaaagact atgccgataa tcaggatgca 180
cgtcagtacg actctcgact ccgtggcccc atccgccaag ttgaacttga aatcgaccca 240
cagactggta tgaagaacta catcgcgaac gaacgagggg actgggctac gagtactgcc 300
tacatcaagt atagtctggc gaggagcatc cactatggaa gattgtatac cagcggtgga 360
caccacaagg ggaaggagga agacctttgt gaggctctgc gatgcctggg tcaaggccta 420
catactctgg aggactttgc agcgcacaca aactactgtg aacttgcgct ccgtgaaatg 480
ggttttcgca atgtgtttcc gcataccggc gcagccaccg aaatgaatat ccgtggtcac 540
cgtgtctttc cccttgtgac aggcaccttt ggtatggtgg acttcttcca ttccgtgctt 600
ggagaggcta cagatcactt cactcagtca gaggtcaatg aaatggatat cgcgctgggg 660
gatgctcagg cgaattcctc gggtggatct ctctctgctt tcaccgggct gttgggcaaa 720
atccccggga caaaggactt gatcgcggag gctgaggaac tcaaacgtcg ctctgatgct 780
cagcagtatg ccaatcaaca cggtggtcag aggacgggat atgcccacga gacgtctcga 840
ggattggata gttacggttc agctgtcgga cgtgacctgg gagaatcgct cagtagagct 900
tcagggccca gccagccctc gacctccgga ggccctgctg ggcccggttt gccaggaatg 960
ccagactttg atcccaagaa gactgtggcc cagatctacc ccattcttca gttcagagat 1020
aatgtggtgc ggaagctttc atcgataatt gagaagattc cgggtctaga ggcactggtg 1080
gaaaaagtca cggagaccct gactatattc gtgatgtcac ttcttgctcc gttcatccgt 1140
cccatcatca acgccgcttc caattcgttg caagctggtt cgtcaagcgt cattgatgcc 1200
tctgggaagc accaatttga accatgtctt caccacgggg ctggaaggat cgacggnggn 1260
gtctaa 1266

<210> 3014
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3014
agatacacat tactaccggt acgccaaaaa ccacagagca cggaatacgg agtgagagaa 60
aacgtcctaa gcggtaagca tggcttagta caaccatgta accccaagtc ccaataccta 120
gatgagttgt ccaaggttag cgcaaggagt gaagatgtca agcaaccaaa ccagattatg 180
aaataa 186

<210> 3015
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3015
attccgccta cccttgctag tctgttacct caggcagcta ccaatacaat ccgtagcacg 60
acagagttct atcaacgatg gtccatgcca gtggaggaat tccgcgacac gatcaataat 120
tgttatcaga aatacgatac aatgtcctat tcgatacaac gaatcatact tccccaagaa 180
gccaaaatgg aagttcatcc aaaagcttat tag 213

<210> 3016
<211> 1017
<212> DNA
<213> A.fumigatus

<400> 3016
ttaacactac cactgcagct tgcacgaagc acgatgttgg ctacacgtcg gggtgtgcga 60
tctatttcca cagatgattt gatattccta attagacatg acaaggccaa agtctcacgt 120
cttaagacct tcctttcttg gaaggatgtc cgtaaaaatg tcaaagactc ggatgataaa 180

ggtggcgccg acgctgcgga cttcgcaggt gctgacgacc cgattgcggg aggcgtcgtt 240
gccgggcctc aagacgttgc ttccaaaccg aaaaacaaga gggcgcgtgt tggccttgtg 300
tgggatgtaa atagcttcta ctccgtccag gtaccggaga gggaggacga agaagatgaa 360
gaggaagagg agcagaacta tgcaactctt caacgtcttg cagcagctga tgaacgcaca 420
aagaacatga ccagggaaga gtacgtgttc tggtcggaat gccgtcaagc atcgtttacc 480
tatcgcaaga gcaagcgttt tcgagagtgg gctggctttg gcattgtgac ggaatcgaaa 540
cccaatgacg atatcgtcga tattctcgga ttcttgacgt tcgagatagt tcagaccctg 600
accgaggaag ctctcaaggt caaggaacgt gaggaccgtg agaagatccg tcgtggagga 660
gccgaaagcg gagcaggtga aaacacgaag aagcgtaagc gagaaactgg tcttttcgat 720
cctcccgaag agggacgtac gccagtcgaa ccaagacaca tccgtgaggc ttaccgtaag 780
cttcaagcca ctccgaacaa gaatattgct atgctcctgc acaacgggcg catcccggcc 840
cgtatgcctt tgagattggt aggatccatt ctcagctgta tttctgacct ccatgctgat 900
ttactcccag atttgaccga gttccacatc ctgtcaccgt cttacactcg cacgtttcct 960
ttcccggcgt ttacattctt tccttcggcg gagctatact acgatagata cccatga 1017

<210> 3017
<211> 561
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (274),(444),(502)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3017
ccaacaacaa tgaagcaaac cggcactctc gtcgccctcg ccggcctggt ctccatggtc 60
cacggtcacg gttttgtcac ctctcccaag ccccgtatgc ccggcccggc tatgaaggct 120
gcctgcggta accaggtgga gatcaaccag cagtccgaca actacggcaa catccagggt 180
gagcttcagg tatccaaggg ccagagcgac tacaacgccg acgagtgtaa catctggctc 240
tgcaagggtt acaagtttga cgacaacaag gacnacgtct actcctacac cgccggccaa 300
accgtcgact tcgtggttga catccgtgcg cctcacaccg gtgtggccaa cgtctccgtc 360
gttgacaccg ctaccaacac ggtgattggc aataccctca agtcctggaa cgactacgcc 420
tcgaacgcca ccggtgtctc ccangatgag aacaacttca gcatcaccat ccccgacaac 480
ctgggcaaca agtgctccga ancccctgtgc ttgtgttctc caatgggtat ggttccccca 540
aatctattca acagaaccta g 561

<210> 3018
<211> 543
<212> DNA
<213> A.fumigatus

<400> 3018
gcttcgcgac gggttggagc acagtgttcg gatgtgagct tggctgggat cattgatcgg 60
gaaagaattc tgacgggggga cagggatatt cacaaccgca tcgaccaatt tgatctacgc 120
gaccaacttc atggccttga ttgcgctgta caagacggac ctcgtgatcc agccatggat 180
gaccttcgtt gcgtaccagg gtttcaacat tttgacaggg ggaacagtca tgttcgggaa 240
tcgttttatt ccacttatca acaagttttc ctgtgggctg agattttcac tttcatatgt 300
aaccctggca tactgacagt tgcgcaagta tgctatctcc aactggcctg gttcgtcatc 360
atggtcaccg ttgctgccgc agctcccaag cataacgaca gcgagttcgt tttcagaacg 420
tggatgaata acaccggctg ggagaacaat gtgatttgct tcatcacagg actggtgaac 480
ccgctatatt ctcttggtgg actggatggc ataacggttt gtcctttccc tgaagatgtc 540
tag 543

<210> 3019
<211> 243

<212> DNA
<213> A.fumigatus

<400> 3019
cgggggacag ggatattcac aaccgcatcg accaatttga tctacgcgac caacttcatg 60
gccttgattg cgctgtacaa gacggacctc gtgatccagc catggatgac cttcgttgcg 120
taccagggtt tcaacatttt gacaggggga acagtcatgt tcgggaatcg ttttattcca 180
cttatcaaca agttttcctg tgggctgaga ttttcacttt catatgtaac cctggcatac 240
tga 243

<210> 3020
<211> 282
<212> DNA
<213> A.fumigatus

<400> 3020
tcacctcgat caaccccggt ggacctggcg cttgtaggac gctccctggt aatcatgcgc 60
aacttcatgg tggacggctt cagtatttac ggtttcatct tcgttttcat catgcaatgc 120
tttctgggta cttccctggc tgaatttgtg tctgcatacc cggtcgaagg tggcatgtac 180
cattggattg ctgcaattgc cccgaaacga tacaacagca ttctgagctt cgcgacgggt 240
tggagcacag tgttcggatg tgagcttggc tgggatcatt ga 282

<210> 3021
<211> 825
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (69),(79)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3021
tacgagaccc ccgacgagga cgagtcgaaa ctcgaatggg tcgtcatcac caatggtaca 60
cccgccagnt gcacccaant aggcctattc aacgttttcg ccgaccgagg ccccatcgac 120
cttgtgatct cgggccctaa ccacggccgc aacgcttcaa cgatgtacaa cctctcttca 180
gggaccgtcg gcggcgccct ggaagccgct atctgcggga agcgcggtat tgccatctcc 240
ttcggcagca aggacgagca gccaatcgag gtcatccgcg ccgcggcccg gcttgccgtg 300
cgcgtcgtca accacctgta ccagaactgg gacgagcgtg tcgagctata caatctgaac 360
gtgccgatgc gcgcggacgt ggaaaccaga ccagtcctct atactcgaac tctaccctac 420
tactggccga aaggctgtct gtacgccgaa gtgacccagg ccaacggtca ttccgcgccg 480
ggcttgacga acggaaactc gaaccactca gacgaaactg acgcgaaact gtgtaatggc 540
acgactacaa aagccgtgaa tgggttcggt ggctcacacc tcaagaaacg taatttcgcc 600
tggtcggcgg aattgtctga gatgaagaaa gctctgcagg caagcgagaa ggggactgat 660
gcgcatacag ttctgaatgg aagtactagg ttagcatcct cgatcatctt ccgtccacgg 720
gacggtacat ctcgtctgca ggaagctgac tgtccaatac agcgttactc cccttaccgc 780
aaacttctcg catgtttctg gtctggatgg acccttggag cttga 825

<210> 3022
<211> 432
<212> DNA
<213> A.fumigatus

<400> 3022
gcattgactc aaatcaaagc acaagatatc cggtcagacg ctaaccccga caatgtaggt 60
ctcacggaga cgtcgactgt cgtttgctcg acccatccca cagacgtatt tctcggctca 120

tccggcacct tgctgcctgg ggttgaggta cgcatcatga cccccgaggg caaggaggta 180
accagctacg acacacctgg tgaactcgtc gttcgcagcc caagtgtggt tttgggttac 240
ttgaacaatg agaaagctac caaggaaaca ttcgaggacg gatggatgcg caccggtgat 300
gaagctgtcg ttcgggtgag cccaaagggc acggagcata tcttcatcgt cgatcgaatc 360
aaggagttga tcaaggtcaa ggtccgttac ccccgaagtt gtatatcttc actagcactc 420
agtttcaatt ga 432

<210> 3023
<211> 294
<212> DNA
<213> A.fumigatus

<400> 3023
aaaggagtca tgatctctca ccgcaatgtc atcgcgaata ccttgcagat tacggcgtgc 60
gagaaaacat ggcgggactc cctgactcca accggcggac cacgatacac tgatatcgca 120
ctgggtctgc tgccctacag tcacatttac gcgctggtgg ttatttgcca ttcagggccg 180
ttcagaggcg accaagtcat tgtcctgccg aagttcgagc tcaaatcgta tctctctgca 240
attcaacagt tcaagataac gtctctcttc ttggtaagtg gtgtcaactc gtag 294

<210> 3024
<211> 225
<212> DNA
<213> A.fumigatus

<400> 3024
agcgaagata ccatagaaca aatgctgacc gaggatccct ccttctccaa ggttcctccc 60
atcattatta ccatgctgag aagccaggaa atttgctcca agttcgacct gagctctgtc 120
acatcgttgt tcacaggtgc agcaccacta ggaatggaga cggcggcaga tttcaataag 180
atttatccca aagtcataat tcgtcaaggc tacggtaagc attga 225

<210> 3025
<211> 330
<212> DNA
<213> A.fumigatus

<400> 3025
ggcctacaag tcgctccagc ggagctcgaa gctcatttgc tcacccaccc agcagtcgca 60
gactgtgccg tgatcgctat tccggacgag gccgctggtg aagtgcccaa ggccatcgtg 120
gtcaagtctg cctccgctgg caatgacgat gaagctatta tccaatctat taagaaacat 180
gtggaggacc acaaagctag acacaaatgg ctcaagggag gagttcgctt catcgatgtt 240
attcccaaga gtccgagcgg caagattttg cgccgattgc tccgtgacca ggagaaggag 300
ttgaggagac aggctggggc caagttataa 330

<210> 3026
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (144),(158),(181),(221)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3026
tggtatacta acccctccct agtgaagcat ggagatacac cggccccttc agccgcttca 60
accgctttaa gcgtatcttc cccggcttcc gtattgccag cgtcgccttc gccggttact 120

gcgtatacaa gcacttcttc ctcnaggatg agcaccanca ccgtgaaggg ctacactgaa 180
ncgttttttc cggggaataa ctgggaatgc atgggaagtc naggcaaaaa ccccgatacc 240
cccggttaa 249

<210> 3027
<211> 573
<212> DNA
<213> A.fumigatus

<400> 3027
ctacaacccc gcgctgcaca cgacaatatg ccacctcctg tcggcagata cgggccttct 60
ggcctgagtg gtccttattc acatttgcaa caagcgcatc tccaacaaca gcagcagcaa 120
cagcagcaac agcagcaagc tcaacatcat ccggcccacg cccagtcggc caacacggcg 180
ctccctcctc cctcccttgg cggccaccct ggttttgcgg ccggcaaccc caacactaat 240
atcaatcctt ttacattatc agggacaggg attgcgaacg gcatgtccgt tgctgggttt 300
acgggggctg gcgatggagg gggctctggg ttggcgagcc atgcggccca gattggtttt 360
gcgagagggg cacagatgca gcaacagcaa ttacttcaaa ctcatgatgg ccggttagct 420
ctcgagacaa aagcaggcgg tgtgaagact cggatacggg atgtatggaa acacaatctg 480
gcccaggaga tggccgtgtt acggcagctg gtcgagaagt atccttatat cagcatggta 540
tgtccgtatt gggatgacga tcccgggggg tga 573

<210> 3028
<211> 684
<212> DNA
<213> A.fumigatus

<400> 3028
caacatcgaa caatgctata tcagcgtctc accgctctag gcgttgccgc tctggtcgcg 60
gcctcatcgg tctctgcaag ccctatggcc aggggcgtta aaggtcgctg tcgtgctaag 120
tacaacaagg ccgtctccca cgtcccaaca acccatgaag caactccgac cataaatctc 180
ccggtggagc tcccagagac tcgatctcag tcccccttggc ccactgtaga tgagatcgtc 240
cctgtcaaga agccccaggc tgatgaggat cccaatgctt cctcttcctc ctcctcttct 300
tcctcttcgt tgtcaacgac atctgcactg ccctcttctc ccgctaccca ggaacaagac 360
accgtttcgg cagctcctgc tgagcctaca acagccgctc ccgagaccgt taacaaggcg 420
gccacgactg catcttcctc cagcagcacc acccactccg gcaaagccac cttctacggc 480
ggcaacgtct ccggcggaac ctgctcgttc accgggtaca cgcttccctc tggactcttc 540
ggaactgcct actcaggcgc cgcatggaac aacgccgcgg aatgcggtgc ctgcgtctcc 600
gtgacaggac ccaacggtaa aaccatcaaa gcaatggtac gtctcctctt ttcgtgcgga 660
tcatatcata tataccccag ctaa 684

<210> 3029
<211> 432
<212> DNA
<213> A.fumigatus

<400> 3029
aaccatcaaa gcaatggtac gtctcctctt ttcgtgcgga tcatatcata tataccccag 60
ctaacgccac ccatccagat cgtcgaccaa tgccccgaat gcgaacaaga ccacctcgac 120
ctcttccaga acgccttcac ccagctagca gacgtctcca agggcatcat ccccatcacc 180
tggtccttcg tcccctgcgg gattaccacg cccctcgtcc tcaagaacaa ggggggaacc 240
tcgccctact ggttctccat gcaggtcatg aacgccagcg agcccgtcgc gaagctcgag 300
gttagcaccg acggcgggaa gacctggcag gggaccacga gaacctccca caacttcttc 360
gagaagagca atgggtttgg aaaggatacc gtgggacttg aaggttaccg ggccattcgg 420
cagctaccct ga 432

<210> 3030

<211> 228
<212> DNA
<213> A.fumigatus

<400> 3030
attggagtag tattgcttct catccaatcg atcccacagg aaatgtgcct taaaataagg 60
tgcattctgg agagttcccc catgttgaga gatgaaaagg tcaatgaccc tctttcctca 120
ctccagtctg ttcttattat tttgaagcaa ttaacttttg tattaaacta ttcgggcgct 180
gacgtggtgg tgtcaagcga gcggaggcgt agatcacgtg agatttga 228

<210> 3031
<211> 249
<212> DNA
<213> A.fumigatus

<400> 3031
cggcgaatta ctagatatag tatagcgtgc ctattcagga ataatgtaca tgtgcctctt 60
ggcatcgcag tgcttggtct atatagcttc caactttccc tcttgacatt aggttatttc 120
cccaccattt ccttttgttt ctttcgcttt tggttctgtc tggaccagtc atcccgtgtc 180
ctgcacttcg ccacccccct aatcctctct ggcaacgtga ttttgggaga ttggatttgc 240
ggttcgtga 249

<210> 3032
<211> 1173
<212> DNA
<213> A.fumigatus

<400> 3032
gcgcaattcg cggttccttc caggcccgtg gtgaagacct tcctcatgaa gacagttaac 60
agtgtcaaca aagacggctc tcgcaaatac cacctagaca tccaattgaa tactctagta 120
acaaatgttc gttttgatac gaccggtgag cggcccagag ccatcggcgt cgactatctc 180
cggggccaaa gcctgtaccg cgccgatccc cgtgccagca aagcatccgc aggaactcct 240
ggcagtgtca acgctgccaa ggaggtgatc ctctcggcag gcaccttcaa cacgccccag 300
ctgctcaagc tcagtggtat tgggccgaag gaagagctga gcaagtggaa catccgcacc 360
ctggtgaact tgcctggcgt gggcaagaac ctgcaagacc gatacgagac cggacttgtg 420
ggcaaggccc ctaccgattt tgtcctcaca agcaagtgca cattcatgta tagcatgcct 480
gatccctgcc tggaccagtg gaagaacaac gccattaaca agggtaccta tacgaccaac 540
gggattgcca tcgctatcgt ccgtaagaca tccacggccg agggaaagcc ggatgtgctc 600
atttcagggg ctcccgtcaa ctttccaggg tattatccca actactcgta cgagggcctg 660
aaggatgcgc aatactggac ctggattacc ctgaaagccc agagccggaa caatgccggc 720
acggtcgaac tgcgctccgc ggaccctaga gatactccga tcatcaactt ccactccttc 780
gatagtggcg ttacggacaa tggcgcggac gagaaggatc ttcaggctgt ctatgagtcg 840
atgctgttct cacgcaagat cttcaacgat ctggtgcctt tggacggcaa atttgaagaa 900
gtatggccgg gtcccaacgt gacttccgag gcggacctga aggactttat caagcgggag 960
gcttggggcc atcatgcctg ctgtaccgcc gccattggag ccgacgagga tccgaacgct 1020
gttcttgact cggacttccg ggtgcgtggt gtggatggcc tgcgcgtggt ggatgcttcg 1080
gtgttcccca agatcccggg atggtacatt gcgcttccca tctatatgat cagcgagaag 1140
gcggccgacg tcattattgc tgatgctgca tga 1173

<210> 3033
<211> 342
<212> DNA
<213> A.fumigatus

<400> 3033
aatcttgacg ataccagtaa ggtgcaaaac tacactttca ccgacttcag ccccggtttt 60

ctggctaaag ccgccgaacg attctccaag gacgcagtaa tcctggagtt tttgacgctg 120
aacatcgaag aggatccgct agcacagggt tttcaggctg agtcatttga cctgattgta 180
tgtgccaatg tcctgcatgc cacgcggtca atgcaggaga ctgtagccca ctgtcggtgc 240
tttctgaaac tgggaggcaa gctcgtgctg tcagaggtga caatcggcgg cctcggcggt 300
atctgccgtg agatcagtcg ctggctacgg agaagggcgt ga 342

<210> 3034
<211> 1149
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (747)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3034
cctccatgtc ttttggtttc tctccagcgt tctccctgtt tgcttttgtt tatggtccat 60
ggtcgtattc tagaagtcat gcattctaat cagcctagac tctgtagctc acataatgat 120
gaacctgcgt tctactccat cgtggacagc gacgatcctt acgtgcagag tctgatggaa 180
caagccttac aacgtcgcct tcgcaaagga cagtatcaaa tggtatcgaa gctatccgat 240
cttccttccc cctcagcccc tctctttcaa tatcgcgaat acgaacggct ggactttgag 300
catgcgatga tgtactcgaa tacctccctg atcaatgcct atatcatccg gaaagcgctc 360
attcgcaagc actacctctc caacacagtg gccaactggg tcaccaagca ccctaacagc 420
gtactacgga accatttcaa attcgcatgc gacttcgagc tagactacgc cgagtttctc 480
gacgaagcct tgctcgaggc atacgagctt cgcgagagcc tggacaggaa cgaaggcaag 540
ccggattcag aaaaggaatg gtggattctg aaagcaggaa tgagtgaccg cggacaaggc 600
atccgtctct tcaacagcga ggatcaactg cgcgagatat tcgaagaatg ggaggaggac 660
aactcggatg atggaagcga acccgagaac ccagataccg aggaccagaa tggggacagg 720
gacggacaag gcgttgtcac ctcccancta cgtcacttca tcgcccaacc ctacatagat 780
cctcctctca ttctaccctc ctcgtcaaac cgcaagttcc acatccgaac ttatgtgctt 840
gctgtcggct cattgaaagt ctacgtttac aaggagatgt tggctctctt cgccgcgaaa 900
ccatactgtc ctccatggga ggacgaagac gaggtcatcg atctcgccag acacctgaca 960
aacacctgtt tccaagaagg cggcagcacc aacgaaggaa gcgtccgacg gttctgggac 1020
ctggatcacc atgtacccgg actgagccac ggctggaaag agaagatatt cgaccagatt 1080
tgcgccgtca ccggagaggt cttcgaggcg gccgtcttca ccacggggct ggaagggtcc 1140
gcgcaacag 1149

<210> 3035
<211> 1014
<212> DNA
<213> A.fumigatus

<400> 3035
ggacgcggat cttccatccc cgtggtcgaa gatactttgc cccgtacgca tagacgaaga 60
agggaaaaga aattgatgac tatggatgag gttaattcac ggtttccact cacaaagtac 120
aaggcatgga ggtcgacgcg ggcaaacgcc agcattccga ccgcagaggt gatatctaca 180
gccgacagca gtctacacag tccaaacatc aagaacggca cattggttgt agataccagt 240
gtatcgccat ccttggtgaa atcggcatcg acggatagtc aacggcagat ggggcccacc 300
atcgcgcaaa cttcaacagt cgcaccggat gctggagcac aattcgctca gttggacgaa 360
aagtccaatg gtcgtccaat ttttgctgat tgcattcatg ctcgagacgt ttcgaagtac 420
accaacgatg agatgaaaga catacataat caggacagtt gtgaatgtca tgggttggaa 480
gacatcggag acgccgatca tcccatccgg actgcaccac tggccgagct tcttcccact 540
cccgcagact cctgtgcaat atgccttgac gtgatcgagg atgacgatga catacgtggg 600
ctgacatgtg gtcatgcttt ccatgcatcc tgcgttgacc cgtggttgac aagccggagg 660
gcctgctgtc cactctgcaa agcagattat ttcactccta aacctcgctc tgatccggtg 720

gtggagcgtg cgagcacaga tcgccgtagt atggtgggaa tgtatgctcc cagccgacct 780
cggcctgtct ttataggatg gcgatcaaat ccgtttcgtc gaacaacaat attgccccag 840
cgactcatgc gacgcgatgg aatcccgcca tcgcagctgt cgggtgcact caatgtcgat 900
tcgtacatgg cgcacaatgc atctgacaca aggtcagaaa tctccagacc tcaacccagg 960
ggatcaatgc ggttgttccg tcttcacgac ggggctggca ggaaacgcga tgca 1014

<210> 3036
<211> 198
<212> DNA
<213> A.fumigatus

<400> 3036
ttgacattgt tttcaggtac ctctggtcag gccaaaaact acattaccag aactcaggca 60
gttcgcaagc ttcagatctc tttgcctgac ttccgtcgtc tttgtatctt caagggtatg 120
ttcagaaaat acgatccttt atttctcttt tctatatgtg gtggcgtcga tcctgatcgg 180
attgcttctg cgatttag 198

<210> 3037
<211> 282
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (59)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3037
caacaaggag gtctcgaagg aaattcaggc gaaagtcgac aacgtgatca aatcagcang 60
acctggatga agccaaggag gagccggccg ccgagacgac ccgagaatct aatggaacaa 120
attgacaagt tcgagcccgc agccccagaa gctgatacac tcccccaacc tgacctgatg 180
ggaaccgagg ctggatcgct cttcgcccca ttcacattct acatttcacg agaggcacct 240
agggcgcccc tggaatattt cctgcggcct tttgggtggg aa 282

<210> 3038
<211> 840
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (829)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3038
tcggattgct tctgcgattt aggtatctat cctcgtgagc ctcgaaacaa gaagaaggct 60
tcgaaaacat cgaccccgaa taccactttc tactacacca aggacatcca atatcttctc 120
catgaacccc tactcaggaa atttcgggag cagaaggccg ttgcgaagaa gattgcacga 180
tctcttggac gcggagaagt cggcgatgca gctcggttgg aaaagaacca tgcccccaag 240
ctcacattgg accatgtcat caaggagcgc tatcccactt tcattgacgc tttgagagac 300
ctggatgatg ccctgtcact tctgttcctc tttgccaacc tcccctcgac cgctcacgtt 360
cctcctaaga ctattgccct ctgccaacgg ctttgtcacg aatttcagca ttacttgatc 420
acgaccaact ctctgcgcaa atctttcctt tccatcaagg gtatttacta tcaagctacg 480
atccaaggac aggatatctt gtggctggtt ccttaccgat tcgtgcagcg cgtcaacggc 540
gacgtcgatt accgtatcat ggccacattc gttgacttct acaccacttt gcttggattt 600
gtgaacttcc ggttgtattc gtcgattggt ctgagatatc ccccgaagtt tgacaccaga 660

agcgacgaga atggcgcaga attggcggct ttcaccctcg agggccgcgg agtcggcgat 720
gccccgaagg ccattgaggc tggaaacaca caagcaacca cctctactaa caacaaggag 780
gtctcgaagg aaattcaggc gaaagtcgac aacgtgatca aatcagcang acctggatga 840

<210> 3039
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3039
ttgatgcgac tatacgtcaa ggattgcatc accatgggaa aattccccat agcagcagtg 60
ttctctacaa atcctatctc tgacgttagc aactctgagc aggtcatgcg atcgagtacc 120
agtaaaggga catgtgtgac cattagtcta ggccctaaga acaactttct gtgcttagat 180
ccagtagtac atatgttgtg ccattcatct ctgggcatcc catattcatc tccctga 237

<210> 3040
<211> 561
<212> DNA
<213> A.fumigatus

<400> 3040
caagtttcga acaatagttt cgtcaagacc ctgacgggta agaccattac cctcgacgtt 60
gagtcgagcg acaccatcga caacgtcaag gccaagatcc aggacaagga gggtatcccc 120
cctgaccagc agcgcctgat cttcgctggt aagcagcttg aggatggccg caccctgagc 180
gactacaaca ttcagaaggt acgcgaatct ctgacggacg acgattggtt tcgtttcgtt 240
tatgcgcatg gggtattttc gggagatgca agttgttcgc tggattgctg gacttggttt 300
ccggatcctc gggcaggacc gtctgcgcca ggagatgtgt ggattgttat ggaggattta 360
cagttattga gaaggatgtg ttcggctgac cggatgcttt tgcacatgtt taggagtcca 420
ccctccacct ggtcctccgt ctgcgtggtg gtattattga accctccctc aaggctctcg 480
cttccaagta caactgcgag aagtccatct gccgcaagtg ctacgtacgt ctttgtcccg 540
atcgctcgac ccaacatgta a 561

<210> 3041
<211> 426
<212> DNA
<213> A.fumigatus

<400> 3041
gagtccaccc tccacctggt cctccgtctg cgtggtggta ttattgaacc ctccctcaag 60
gctctcgctt ccaagtacaa ctgcgagaag tccatctgcc gcaagtgcta cgtacgtctt 120
tgtcccgatc gctcgaccca acatgtaacc cgttactggg gacgctcgct ttggaattct 180
ttactaactc gatccctgta taggcccgtc ttcctccccg tgccaccaac tgccgtaaga 240
agaagtgcgg tcacagcaac cagctgcgcc ccaagaagaa gctcaagtaa acgatttcta 300
tcttgttacg gtttttccgc gttgctgggg gaaagagatg ctcggagcta tgacgtgatt 360
gctacatggg aggttttaaa aggcgttgga atgatgaaac attatagccg aagtcacata 420
ttttag 426

<210> 3042
<211> 402
<212> DNA
<213> A.fumigatus

<400> 3042
atcctccata acaatccaca catctcctgg cgcagacggt cctgcccgag gatccggaaa 60
ccaagtccag caatccagcg aacaacttgc atctcccgaa aataccccat gcgcataaac 120
gaaacgaaac caatcgtcgt ccgtcagaga ttcgcgtacc ttctgaatgt tgtagtcgct 180

cagggtgcgg ccatcctcaa gctgcttacc agcgaagatc aggcgctgct ggtcaggggg 240
gataccctcc ttgtcctgga tcttggcctt gacgttgtcg atggtgtcgc tcgactcaac 300
gtcgagggta atggtcttac ccgtcagggt cttgacgaaa ctattgttcg aaacttgtca 360
gtcatggctt ttccggaggt tccgcgtata tcgtgtcgat ga 402

<210> 3043
<211> 261
<212> DNA
<213> A.fumigatus

<400> 3043
caatccacac atctcctggc gcagacggtc ctgcccgagg atccggaaac caagtccagc 60
aatccagcga acaacttgca tctcccgaaa ataccccatg cgcataaacg aaacgaaacc 120
aatcgtcgtc cgtcagagat tcgcgtacct tctgaatgtt gtagtcgctc agggtgcggc 180
catcctcaag ctgcttacca gcgaagatca ggcgctgctg gtcaggggggg ataccctcct 240
tgtcctggat cttggccttg a 261

<210> 3044
<211> 222
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (51),(112),(218)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3044
gactctacga agcggtggta ctggaatctc agcccccgcg cttcgtggta ncacgggtat 60
gatggcattg tcatgggtaa aacgaactgg acgctggcaa ggcgcttgcc ancgtgtcat 120
cgaagtatta agactcggat aactatcatt gaaaatatga ggctgacgca taacgtcctg 180
gtgtctttca cagataccac gggaggtatt tcttgccnat ag 222

<210> 3045
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3045
ggacccaact tatgcactgg gcttctgtat tggcttacga gacatcagtc cgagcaattg 60
acatcgttta attctattga ctgtcagcaa ttgactggca aaaatataga gcaacgatct 120
gaccacgtcc aaagacgcgc gatgcatcgg aacgccgttc tgttctgcga ctacgagctc 180
atcacccttt acctcgctac tttcgaccgc tactctgttc gtgccttgct ttgttag 237

<210> 3046
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3046
gtgcgcggcg ttctgcttga cacatgcact aagtactcta agctgtctca ggctgtggat 60
gccggtccag ctcagagact tcaagtgctt caatctcaca agcccatcaa cgttcccttc 120
cagaaacatg ccatgtcttc cctgttcaca aaaaccctga ccgggcgcca acaatttcaa 180
gctccgtatg cctga 195

<210> 3047

<211> 231
<212> DNA
<213> A.fumigatus

<400> 3047
cgaatccggc ctaataccag gcgcagcccc gccaaaatgt cgttaacaaa ttgccgtttc 60
tacgaggaga agtacccgga ggtcgacagc tatgtcatgg tcaatgtcaa gcaggtatgc 120
gactgtttct atgataatgg tcgttctttt gcaggaatct tcgactatct ctctgtggtt 180
cattctgcag atcgccgaaa tgggcgcata cctgaaggct cttcaatttg a 231

<210> 3048
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3048
caaattgccg tttctacgag gagaagtacc cggaggtcga cagctatgtc atggtcaatg 60
tcaagcaggt atgcgactgt ttctatgata atggtcgttc ttttgcagga atcttcgact 120
atctctctgt ggttcattct gcagatcgcc gaaatgggcg catacctgaa ggctcttcaa 180
tttgacaact tgaatgcatg a 201

<210> 3049
<211> 417
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (31)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3049
tccccccgca ctgcggtacc ttccagcgcc ntccgtgtag acgaggaggc tattcaggcg 60
tacgagcaag ctcttaccat caaccccaac tttgtccgtg cccggtacaa ccttggcgtg 120
tcctgcatca acatcggttg ctaccctgag gctgcacagc acctcctagg cgctttatct 180
atgcaccgtg tcgtcgaaca ggaaggccgg gagcgagctc gcgagatcgt tggcggtggt 240
gagggcggta ttgatgacga acaacttgag cggatgctcc atatcagcca gaaccagagc 300
acgaacctgt acgatacgct gcggcgtgtg ttcagccaga tgggccgtcg ggatctggct 360
gatatggtag tggcagggat ggatgtgaat gtgttcagga aagagttcga tttctag 417

<210> 3050
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (190)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3050
ttcactttcc ctagcaccag gatggctgtc gttactggtg ctcaactgat cgcccggacg 60
ctgcgggacc tcggcgtcac tgtgatcttc gggatagtgg gtataccagt aatcgaaata 120
gcagagagtg ctatcgactt gggtattcgc ttcattgcgt ttcgcaacga gcaggcatgc 180
agctatgcan cgagtgtgta cgggtacctc acaggacaac ctggt 225

<210> 3051
<211> 285
<212> DNA
<213> A.fumigatus

<400> 3051
gcgtcttatg tcgtgcgctc gattaccaca ggtactcgat cacgactaaa ttttggagcg 60
caatggaatg aacaatcgaa tcctgacaat gtcacagcgg atatcatctc gaccgtcgag 120
ttcgaccaca ccggtaacta tctggctacg ggagacaagg gcgggagagt agtgctgttt 180
gagaggaatg agacggtagc gacaaccttt tctttccaca gcagcaatgc acagggttct 240
aatgagtcaa ccagaaaaaa acctgcgagt ataagtttca caccg 285

<210> 3052
<211> 363
<212> DNA
<213> A.fumigatus

<400> 3052
ctaccctctc atagaacaat ccatagcatg gtgtacaacg ccatgaagat gttcatggaa 60
atcaaccctc aactgttcga cgaatgttcc cacgaatata atgagcgaca gaacagcgcc 120
gagcagcgtg agaaatctcg acaggagcga tgggagaagg tcttggagcg agccaagcaa 180
aggaaaaacg gactcttacc tcctccagct ccgcctgcag aagtgccagc gcaagttgat 240
gaggttgatg ctcttgctca ggataaccag aagcgtctca acgccctgaa gctggaggac 300
tctgcgtcaa acaaggagcg gaaagaaggt gcaacagcta ccgtaagtag catcctaccg 360
tga 363

<210> 3053
<211> 1143
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (846),(918)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3053
atcagaagtg ccagagtcag gcactcgaaa agtctcaggg aagaagctgc gcccgcgcaa 60
acagtgacgg aggaagtgcc tcttgtggac tctaagccag tggagctatc ttcagccgaa 120
tcgacaaagg ccgagaaggc ccctacaaag atgaccactg atgaggcgcc acttgccgag 180
aaatcctccg agaaaacagt gcctgcggag cctatcgctg aagagaaggt tcaagcgacc 240
atcggggatg agccgctctc ccggaacaat gtggaagaac agccaaaaca gaagtctgtc 300
gaggcgaata aggcggccga cgaggccgtt ctcgaggaac cgatcaagga atccgccct 360
gaggagattc cagaagattc taggaatgca gttgttgcag acgccccggt cacggagtca 420
tcaacgacgg aaaaggtcga agtaacagca cctgacgctg agaaggagcc cgctcttaag 480
gaatctgcca aggaaccaat ccaggaggag atccctgaag cttccgagaa ggaagttgct 540
gcagagaccc cggtcacaga gtcatcgacg acagagaagg tcgaagtaac agcacttgac 600
gctgagaagg agccagctct tgaggaatct actaaggaac cgatccacga ggaacaaaca 660
attgagactg ttgttactgc agaagtgaca gccgccaagg aacccgaggc gcaggcaacg 720
gaggagccag ttgctaatga atccatcaac caaagaggtc gaggcaacaa cggagggagc 780
ctactgctgg ccaagaattc ggccaaggag cctatcagta atgagacggc aattcgtgtc 840
acccangctg atgaatcaac aaaggaacta tctaccggat ttgcagccgc agaagacatc 900
accggcaaag gggctganca ccttacggag gtgtctaccg ctgccggaag gactggccaa 960
ggattttgtc aacgacgcat ctgctgtaaa atcggctcca accgaggtga acccggaacc 1020
cacctaagga ccattccgct tcagtggtta ttcccaaagg aacctgaacc ccctaatgct 1080
gaaaaaactg ctgttgaaga atcattttgg cgccaattcc cgaagccccc atgggatgaa 1140

ttc 1143

<210> 3054
<211> 687
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (72)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3054
tcagcccctt tgccggtgat gtcttctgcg gctgcaaatc cggtagatag ttcctttgtt 60
gattcatcag cntgggtgac acgaattgcc gtctcattac tgataggctc cttggccgaa 120
ttcttggcca gcagtaggct ccctccgttg ttgcctcgac ctctttggtt gatggattca 180
ttagcaactg gctcctccgt tgcctgcgcc tcgggttcct tggcggctgt cacttctgca 240
gtaacaacag tctcaattgt ttgttcctcg tggatcggtt ccttagtaga ttcctcaaga 300
gctggctcct tctcagcgtc aagtgctgtt acttcgacct tctctgtcgt cgatgactct 360
gtgaccgggg tctctgcagc aacttccttc tcggaagctt cagggatctc ctcctggatt 420
ggttccttgg cagattcctt aagagcgggc tccttctcag cgtcaggtgc tgttacttcg 480
acctttttccg tcgttgatga ctccgtgacc ggggcgtctg caacaactgc attcctagaa 540
tcttctggaa tctcctcagg ggcggattcc ttgatcggtt cctcgagaac ggcctcgtcg 600
gccgccttat tcgcctcgac agacttctgt tttggctgtt cttccacatt gttccgggag 660
agcggctcat ccccgatggt cgcttga 687

<210> 3055
<211> 465
<212> DNA
<213> A.fumigatus

<400> 3055
tccttccagc cccgtggtga agacgccaaa caccccaaca tcgtcggcgt caagctcacc 60
tgcggcaaca cgggaaaact cgcccgcatc gccgcccagg ccaagcccga cttcctcacc 120
ttcggcggct ccgccgactt caccctccag accctcatcg ccggcggcgc gggcatcatc 180
ggcggcgtgg cgaatctgat tccgcgctcg tgcgtgcgcc tcatggagct ctaccggagt 240
gggaagatcg cggaggcgca gacgctgcag gcggtcgtcg cgcgcgcgga ctggttggct 300
atcaagggtg ggtttgtcgc ggtcaagagc gccctgcagt cgtatcgcgg atacggcgcg 360
ctgccgcggc ggccgtgtgt gccaccttca gcagaggagg catctgcact gaagaacgcg 420
ttccaggagg ggatggagat ggagcggagt ttcgaggtcg cgtaa 465

<210> 3056
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3056
agacagcgac tagcaagcca gctgggctca aattcaactt tagcccgcga atttagtggc 60
gaccgtgccg cttcgagtgt ggaggagatt agcacccttg gactaaatgc agatcaagag 120
gctttggtta ggaagacgta ctatgaggcg ttgcgaatgg tgtgggtcat ggtaagccac 180
cgcaacatag caacggtgcc agtgcaatca tgctaa 216

<210> 3057
<211> 402
<212> DNA
<213> A.fumigatus

<400> 3057
ctggtctcta ttaccattca tggcgttgtc agacggggcg catgcgtacg aagccagcct 60
tcccttcccc attgtccgtt acaaagcgaa gtcttacgat tgactcgatg ccttcggcgt 120
accagatcca ccgaggaatt ctcgtacttt accctacgca agaaggagac tgagaaggcg 180
cccgcaacgt cattgtttgg aatcgcctgt tcacgacagc tcgactcgaa cctgcttatc 240
aaccgtcctg cggatgtgac tagatcaact gtacaaaagg cggtcgtcgt tattacggac 300
acccctcaga gcgtggggca actgagggag aagctctctg tcgtgacttc ggcttggttc 360
gcgcagcggt acgttgaaaa tatccatgtc tgcgttaagt ga 402

<210> 3058
<211> 402
<212> DNA
<213> A.fumigatus

<400> 3058
tttctggcgg gttccccgag gtccaaccta ggggtgcctt tgaaggtggt ttcaagcccc 60
aatgttcaaa gcccggcagg aaattctccc accagccggt taggccccat tcccaagttt 120
cttgggttct cccccagttc caagctattc acctacttct cttggcatgg gcatcacaag 180
tcctcgtttt atgacgtcgc ctgggttctt acgggccagc ccatcgttgg ctccaacctc 240
gcgtgcatat tcaccgacgt cgccggcata tggacaggca tccccgacgt ctccgtccta 300
ctctcccaca tcgccagggt tctcaccaac atcgcccaac tacagcccta cgtcccccag 360
cttcagcccg gcttctcctg cgttcagccc tacgtcgcct ag 402

<210> 3059
<211> 540
<212> DNA
<213> A.fumigatus

<400> 3059
gccccattcc caagtttctt gggttctccc ccagttccaa gctattcacc tacttctctt 60
ggcatgggca tcacaagtcc tcgttttatg acgtcgcctg ggttcttacg ggccagccca 120
tcgttggctc caacctcgcg tgcatattca ccgacgtcgc cggcatatgg acaggcatcc 180
ccgacgtctc cgtcctactc tcccacatcg ccagggttct caccaacatc gcccaactac 240
agccctacgt cccccagctt cagcccggct tctcctgcgt tcagccctac gtcgcctagc 300
tacagcccga ccagtcctgc catcggtggc gccggtcgac acctatctcc tacttcacct 360
acatctccca agtacacgcc tacatctcct ggctggtctc ctacgagccc gcagacgtac 420
tcacctacgt cgcctaactt tgctggatcg ccgacgtctc cgggcggccc cacctccct 480
ggatacagtc ctacgtcccc cgccttcagc ccttcgtatg taccctcgtc ttcagcttga 540

<210> 3060
<211> 210
<212> DNA
<213> A.fumigatus

<400> 3060
acgcaacggg agctacccca ggttccagtt gtggaagaac attcaacttt cttcaacact 60
acggagtaca aggcactatt ttctcttagc tgtagaatct ctcgagaaca tgacgaatca 120
tttagcaccg cctatttgag catatatacc cacctctacc gacatcgagg atacaactac 180
acaataaatc caggcgcaga atgtctctga 210

<210> 3061
<211> 327
<212> DNA
<213> A.fumigatus

<400> 3061
tttggaatta gtcaagttaa atcccagccc aagcctgcca cggccgccaa ggccgccaac 60
accactcggg gccgtggcgc acgccgtggc cgccgtggtg gtggccgcag ctcaaaccgt 120
cctaagccga agaccgtcga agagctcgat gccgagatgg ttgactactt tgctagcaat 180
gagaatgctg gccccgcaga tgccaatgcc cctgccgctg caaacggcgc tgttcagcag 240
cctgccgccg gtggtgagga tcttggaatg gccgagatct ctgtaagctt cgctgatttt 300
aatgctcact ggacgcacag acactga 327

<210> 3062
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3062
tcggcaggtc ccgtcaagcg agtgatgctc acttacaaca agaacggcac cagtcgtggt 60
attgcttcga ttgtgttcag cagacctgac acagccgcca aggctgccaa ggagttgaat 120
ggcctccttg ttgatggaag acccatgaag gtgagaggcg catcgtcctc gttttcattc 180
caaccgtctc taactctccg cagattgaag tag 213

<210> 3063
<211> 246
<212> DNA
<213> A.fumigatus

<400> 3063
caaccctcac ctcctccaca agaaacctca ccacaaccgc ctcccgcatc tccggccccc 60
ggaacatact cgtcccgccc gcattatcat cttaaccgcc tcaatctgcc ggcgggaacc 120
gagttgaaga aacgaccccc cgtaaatgcc cccccagaac gtttgatgcc catgccagaa 180
ggcaacctcc tgcgccggat agcgggcccg gttccgggtt gtttggtggg ttcagccccg 240
cggtcc 246

<210> 3064
<211> 651
<212> DNA
<213> A.fumigatus

<400> 3064
ttgatcacca attcaacatc aaaagtagtt ttcgcttatg ggccagtcat catggtttcc 60
tgtcccattt gcgggaattc cgttccgtcc ctaaagatca acgatcatat cgactccaat 120
tgtgagaact tcattgaaga gccgacatcg agcacggggg agccagggtc ttctcataag 180
actccggtac ccagcttctt tcagccgacc tctgtccgaa aggccgcctc ccaaagcata 240
ccgcaaaatg attccccgtc cgcaccctct ccgctacgac ccgccagtgg gaaacgaacg 300
attacacatg agaaggagtc tgccttgaac ggggacaacc cggatcaggg tgaagcgcag 360
agagagcctc atccgaaaaa gccgaaggtg aacgcgcttc agaaagcagc accgttggcc 420
gagcgcatgc ggccccggac actcgatgaa gtctgtggcc aggagctcgt cgggccaaat 480
ggcgtactcc gcgggctaat tgagcaggac cgtgtcccaa gcatgattct ctgggggcat 540
gcaggaactg gtaaaacaac cattgcaagg gtcatcgcgt ctatggtagg gagcagattt 600
gtggaaatca acagtactac taccggggtc gcggaatgca aaaagatatt c 651

<210> 3065
<211> 462
<212> DNA
<213> A.fumigatus

<400> 3065
agacgcaaag gccctacagg ccgatttgag tatctcggaa acggcagggt tattatcagc 60

ggaaaggagc ggcgcgtacg ctccttcaag aggatctgcg gcggtactgg tatcactccg 120
atctttcagg ttctccgcgc agtgatgcaa gaccctcaag atcccacttc atgcgttgtc 180
ctctttggga acagacaaga ggaggatatc ctgtgtcgag ccgaacttga tgcatttgaa 240
gcgtcagata agaacaagtg taagattgta catacactca gcaaagcacc agacacgtgg 300
gctggtcgga gagggcgcat cggtgaagca cttctgaagg agttcgctgt acctgacgat 360
gagagcatgg tactcatctg cgggcctgag gcgatggaaa actctgccaa gacaatcctt 420
ttagcccagg ggtggaaaga gtcaaatctt catttttct ag 462

<210> 3066
<211> 633
<212> DNA
<213> A.fumigatus

<400> 3066
gacgctctcc ttcaccccgc ctgtagatca ctgccgggac cgctggcgtt ctccaatgca 60
agtgcggcaa gcggatgggc gcagaagatc agcccctatg cctctggcta ccatctgaag 120
gctgccttcc atgcaaacga tcagaccaat gccgagcgcc tcctacgtag cgtctggggc 180
cctatgagcg atccatcgct cgccaactac accggctgca cgtgggagac attgaatgcc 240
gacggcacgc ccggccttgg tgctgccacc tcgctctgtc acgcctgggg ttccgggccc 300
acggcggatc tcagtcgtta cgtgctgggt gtccaggccg taacgcccgg cttcaaggag 360
tggacggtcc acccacagac tttgggcctg gggtacgccc gcggtaagca ccctgttcca 420
caaggtaaca ttcgggtgga ttggtccttc ggcaaagacg gcctccttaa catgactgtg 480
accgcccctg cgggcacaaa ggggattata tttcccccca gcccactgaa agtccctttg 540
tcgaagtata gggtctcggg acatgcaagg aaagtcggcg agggttttga aatacaggga 600
gggcaggcat tcacccttca acagagcaga tag 633

<210> 3067
<211> 426
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (15),(40),(41),(65),(234),(243)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3067
gagtatttcc cggtnagatc atccttggtt atctttgtgn nttatagaga tttcaaagtg 60
cctgntgagt acgccccgct tgccattcgc acacgcgccg ccgcgcttgc aacggcatcc 120
aactggatat tcacttacct tgtcgtggaa atcaccccgg tcagcatcaa gagcatcggg 180
tggcgcacat acatctattt cagcgtcttc aatttttgct tcattcccct gatntatatc 240
ttntaccctg aaacacggaa tctctcgctg gagcacatcg accggctgtt tacgggcgaa 300
aagattcttc ttcacttgcc tcagagcatg ctggctgatg ctgaggatgc tgttgctccc 360
ggcacagata acagtgacgg gaaagacgtc gacttacgtg aggttgagaa cgtcaaattg 420
gggtga 426

<210> 3068
<211> 798
<212> DNA
<213> A.fumigatus

<400> 3068
aggaagccgg aggtgggaaa ccccggccaa ggccggcctt ccagcacggc cgggccattc 60
ttggagcccg ttaaaagagg aaaatttctg gatcacaaag gcgaacgttg gacattagca 120
ggggaggttg ccttggaggc gctgggcggc cccaaggttg tctggaagcc cggccggacg 180
gacctcgtcg acgactccaa ggtgcccccg cgcggccggc tgcctgacgc cacacagggc 240

gccgagcacc tccgcgccgt gttctatcgg atgggcttca acgaccagga gattgtggcg 300
ttggcgggtg gacataccct cggccgatgc cacatcgacc gcagcggatt tcagggtccc 360
tgggtgaaca acccgacacg gttctcgaac caattcttca agctgctgct gacgctggat 420
tggaagccga agacgctgcc gaacgggatc agccagtttg tgtatgtgga tccggacgct 480
gaggaagggg acgagccgct catgatgctg ccgacggata tcgcgctcaa gacggacccg 540
gcgttccgcg tgtgggtgga caagtacgcc gccgacaagg acctgttctt tgatcatttc 600
gccaaggcgt ttgccaagtt gatggagctg gggatcaagc gtgatgagaa cgaccgcgtc 660
atcaacgccg ataatgtcaa gggcgggtac atctctgcgc cgaagaagag caatcacccc 720
actgggccgg cgaaaggggc tcagggtgga tgtcctgtgg cggcgtcaca gggcggatgt 780
cctcgggcta agctgtaa 798

<210> 3069
<211> 345
<212> DNA
<213> A.fumigatus

<400> 3069
gtgtccataa gaaacgcttc acgagcttgc agtggcttga tgtctgaata ctttgtggag 60
gaaatgtcac gccttcttga cgaagaaaag caaatgactc ataaggctct ttccgcgcgg 120
gtcgatgcaa aaatcgacga cgctaagttc ttcaacaaac tgggcaaact accggctgag 180
ttcgacgctc aacagattga ctgggcctat ggacccgtca ttcaaagcgg gggaaagtat 240
gaccttagac tcacagcagt gtctgataac agcaatcttg aaccgggcat tattatcgct 300
gggttcggga tacggtataa gacttacagt tcaatgattg cacgg 345

<210> 3070
<211> 294
<212> DNA
<213> A.fumigatus

<400> 3070
ttcttcaggc aggctaagca caccctgcac gacaatctca actccaacgc ccatcagatc 60
atggctgaag agattgtgat agacaagact ttgtttttca atcggttgtc aagcttctac 120
gcggcatgga gagcggacaa acgctcaagt caccccacat ttggtggcgt tggctcgatt 180
gtcatcttga tgggcaagac tgacgaagcg agtacttttc aaaagaataa tgctatgcac 240
gtatgttcaa tccttaccac ttcatttggt acttcctttg caacgctaac ataa 294

<210> 3071
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3071
caaccgattg aaaaacaaag tcttgtctat cacaatctct tcagccatga tctgatgggc 60
gttggagttg agattgtcgt gcagggtgtg cttagcctgc ctgaagaact agaagtgtac 120
aagtctagtc aagcttctct ggttgcctta agctctggat tcggtaacgc gactatggta 180
aacacaagat tttga 195

<210> 3072
<211> 747
<212> DNA
<213> A.fumigatus

<400> 3072
tgcccctccc cccgggtgaa gactcagctg catgccgaca actgtgccaa caccggtgtc 60
agttcttcca cagtctccag ctcggtcgtt cctgtcactc caacaagttc cgcagtgcag 120
gagagcaccc ctgccacctc tcctactccc gagtcgagcg ctccgggatc taccaccact 180

gtcaagacaa ccatgactag tacctttgc cctgagtcaa ccatcccagc tggctctgga 240
tctcagcctt ctcattctgc ctctgccacc cagtcttcca gccccaactg cccgaccgat 300
ctctctggac aatatgaatt tcctcacctg atcatccctg tcgactcctc ttctcccaac 360
aaggctcctg gtacctcgtt caacggcaca gtctcttcca ccgtctcgag catcttcaac 420
tttgacattc cttcctcgga cgcaggcaag acctgcagtc ttgtcttctt gttccccaag 480
aaggaggatc tcgagacctc ttcttactcc ttcagcggcg acggcaagat cgattttgca 540
atgctagagt ctgccgctac ttcccagacc tccttcagca atgctcccaa agtcaagcaa 600
gactacggcg ttaccacggt ctcccctggc aactcctacc tgatctccac cttccagtgc 660
cccgctggac aggcagtcgg cttcgagatg aagaatgctg gtagcaccaa cctcaacttc 720
ttcgaggact acaatcccgc tccgtaa 747

<210> 3073
<211> 666
<212> DNA
<213> A.fumigatus

<400> 3073
caatgtccat ccacatcaga gaagccactc agggatgaca tctctcaaat ccataccatc 60
tacagcttct atgtgcgcga gtcagtcgcc acattcctcc gacaacctcc gcccctggaa 120
tccctgatct cctctttccg agagatccag tcccgcggat taccctatcg cgttgcaatc 180
gacacgaccg gcaaagtcct agggtacggc tacctcgccc cgtttaatgg cacccggatg 240
gcctacgcgc cgactgtcga ggtatccctg tacgtccacc cggaatatac atcgaaaggc 300
gtaggaagcc gtctactctc gtccatcctg gagtcggtcg agtcggaagc gggagtatgg 360
caccgtgcct acgaacacaa ggaatacgaa tcacatgtgc aagtcattcc agaggacgag 420
ggccgagtgt gtagtatcat cgcctgcatg gcggtcgata ctacggggaa ggagaatggc 480
gagggtttgc gaaagtggta tgaacaacgg gggtttgtgg agcgagggcg actgaagaat 540
gtgggatata aacaggggcg atggtgcgat tccttatcca tcctatggtt tagcttacct 600
actgacatga gaaggattga tacggtatat ctgcaataca gtgttcgtcg ggatgctaac 660
ctctga 666

<210> 3074
<211> 519
<212> DNA
<213> A.fumigatus

<400> 3074
gttatctata ttccctctca gaagtcaaaa gactttcaat cattttcggc tccgcttctc 60
aacatacatg actcgcacgt tactgcacca tttttcggtc caaatcagtg gatagccctt 120
gtccaacccg tgtctggagg agggattccc ccgtcattgc cagccgttca attgaaggtt 180
acgttcaaag agggggggcgc gttcgacttc cacaacaact ttgagagact caaggagcgt 240
atgcagcagg cacttgagct ctcacaagaa gacggccgac gatcgggaaa cgttgacctc 300
tccacaatcc acctggaaga gctgcccgcc tacacggggc cgcagggtga tatggctggg 360
gttcactctc atggccaaga cctatctcca gacccgtaca gtcgccagga cggtgcaggg 420
acagaaaccg aaccattgga tccaccgcca ggctacgaag aagttcagca acagagtgtt 480
gccaatgaac tcgaagaaag gctacgccgt ggcagttga 519

<210> 3075
<211> 282
<212> DNA
<213> A.fumigatus

<400> 3075
tactttcaca cggtcaggat gggtctcgcc gacttttttct ccgatatgat ctcctccctg 60
agtttccccg aggctcaggc tgaggctcct gccgaaaccg tcgagcagac cagccaggag 120
gctgaaaccg aaaacaagcc cgacgtgagc gaggagaaga ccgaggagag cacggaggaa 180
tctggtgaag agactcccgc tgaagagtct tccgaggaaa gccaggagga gcccgaggaa 240

gaggagcccg aggaggaaga agaggcggaa gaggagctgt ag 282

<210> 3076
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3076
gcttccatga atcgaccagc gaggatgaac aacgtcagaa acaccaccga gtcaaaatat 60
gttgtgctgt ggctgctggt ggatgagttt gcggcagcat ccatgatgag aacagccaac 120
gaagacacgt atgccactgt ggtgccagcg gaaatgagaa gattcatgct gccgaagcga 180
tag 183

<210> 3077
<211> 1506
<212> DNA
<213> A.fumigatus

<400> 3077
cctgtggttc ctgctcggcg accattgccc gaagggcttg aagaaatgcc cttcgtgacg 60
gaagtttctg tgaatctcct ggctcacagt ggcagagttc agtttgtggg acgggaaaat 120
gttgatgcca ttctggagaa aattgatgac cttggttacg aggcctccct cgacaacatc 180
caacctgtgg tcgtgaacaa cgaagagggt aagaaccaga aacggacagt ctcagttcgc 240
gtcgatggca tgttctgcca ccattgtcca gagcgggttc ttgactcttt gaaggcgttt 300
cccgacgtgg aatgcgaacg aacattgtcc ctcaacaaca atgtgctgaa agttacatat 360
acgcctgacc ctccttcgtt gactatccgg gccatcattc aaaccattga gtcagcgcat 420
gatgctttcc aggcatctgt cttccatcct cctagtctcg aagatcgatc gcgcgccatg 480
cagctgcacg aacgtcgtcg attgttaatg cgcttgacct ttgttttgct ggtcgcgatt 540
ccaactttct tgatcggtat tgtcttcatg agccttgtgt catcgaacaa cggggttagg 600
aaatatttag agcagccgat gtgggctgga agtgtctccc ggatggaatg ggccctcttc 660
atcatgacca cgccagtcat gttctatggc acggacattt tccacatacg agccatgaaa 720
gagatctact cactttggcg accgcgaagt cgcactccat ttgtgcgacg attctatcgc 780
ttcggcagca tgaatcttct catttccgct ggcaccacag tggcatacgt gtcttcgttg 840
gctgttctca tcatggatgc tgccgcaaac tcatccacca gcagccacag cacaacatat 900
tttgactcgg tggtgtttct gacgttgttc atcctcgctg gtcgattcat ggaagcctac 960
agcaaagcgc ggacaggaga tgcagttgcg tctcttggaa agctcaggcc ctctgaagca 1020
ctattggttg aaaagtccac tcctatcgat cagactgaat ttgggaaatc attctcgtat 1080
gaaaaccaac agcggattgc agttgatctc ctcgaaatcg gagacgttgt cagcattcct 1140
cacggcgctt cccctcccgc agacggtgtc atcattggtc ccaataccta ccagttcgac 1200
gagagttcct tgactggaga atccagatgg gtgcgaaaat cagcgggtga ccaagttttc 1260
acgggatctg tgaatgttgg ccagcccgtg aaaatcaaga tcactgccct cggcggttct 1320
tccatgctgg accagatcat caacgtggtc cgcgagggac agagcagacg ggctcctctg 1380
gaaagggttg cagacgtact cacatcccat tttgtgcctg taatcactct catagcaatc 1440
ctcacatttc tcatctggct ctctctcggg tcttcaccac ggggctggaa ggtgcacagt 1500
agtcat 1506

<210> 3078
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3078
gttgactttt ccagctttct cttgcccatc acattgctat ggaatatccc tatcgtcact 60
gaaaacgcct ccggcgtcaa tcatggcagt caatacgagc atcatgacgt tctattttcc 120
ggattatttt actttaagag ttattatccc atcgattgta tgatcactgg aatattgcag 180
aactgtcccc catttcacct cccttgctct tga 213

<210> 3079
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (43),(83)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3079
gaactggcac taggcggaga tctgggcttt caattcgtca acnggggttt taagtattgc 60
tctttttatg atcgaggtta cantagccta ggagcaattt cagataccca cccgaacccc 120
aagttgcgtg tggaacacag cgccgatcca ggccaaggcg ttgcagacgg cacacaatct 180
cagcactacc gaccagccta cgaattaacc gaggaccagg aggagaggct gggacgcagt 240
aaatag 246

<210> 3080
<211> 324
<212> DNA
<213> A.fumigatus

<400> 3080
gctctttttt tcatgaggaa tgctaacata ctcaagaccg atatcacgga ccctcaaaga 60
cactttgaaa tggtggctcc ggcgagagcc ctccatgagc cagtattacg cgccgcaatc 120
ctcgcctttt cgtcccggca tatcaacaga caaaaacagg acggcgacac agagtctttg 180
aagtatcaca acgaatgcct tgagcttctt attccaacac tgtcgtgcga tgagaatgag 240
attagcgagg aattactagc agccattgca attctccgtc agaatgaaga aatggatcgt 300
aagttctcaa aggtagttag ctaa 324

<210> 3081
<211> 273
<212> DNA
<213> A.fumigatus

<400> 3081
agacgcgcca ttatctcgaa catcaatgtc aataacggcc ggtcgggcat cgatctcaac 60
tcagtcctga ccagtattca tacctttgac cctgcggctg gttgtgatga ttccaccttc 120
caaccatgtt cgtctaaagc tttggcaaat cataaggtct atgtcgattc tttccgttct 180
atctacggta tcaacgctgg ccttggtcct ggaaaggctg caaatgtagg ccgttacgct 240
gaagatgttt accagggagg aaatccatgg tag 273

<210> 3082
<211> 795
<212> DNA
<213> A.fumigatus

<400> 3082
aggtacctcg caactcttgc ggcggcagag cagctgtatg atgccctcta tcagtggaaa 60
aagcagggtt atctgaccgt cacacaaacc tcgctcgcct tcttccgtga cttctcgtcc 120
accgtcgagc caggaactta caagtcgaat accccgacct acaaatccct gactgattat 180
gtccgcacct acgctgatga cttcttcttc cttgttgaaa aatacacccc aagcaacggc 240
tccttagccg agcagtatga ccgcaacacc ggtgtccctc tgtcagccaa cgatcttacc 300
tggtcctatg cagccttcct ctctaccctt cagcgccgcc tcaacatcat gcctgactcc 360
tggggccccc cgtctgcaaa tcctgttccc actacctgca gcaaaaccac cataactggt 420

acatatagtg ctgtggcgcc tccctttccg acgtccaccg ctcagtgcgt tgccgctgtg 480
actgttcctg tcacctttg gttgatcgag aatacctact atggcgagaa tgtgtacatg 540
accggcaacg tcagcgctct cggtgactgg aacgccagcg caggctatag tctgaatgcc 600
ggtctctaca cctcggatga gaatctttgg ttcgcaactg tcaagggact cgagccgggt 660
gttaccatgg agtacatgtt ctacaagatt gaaccgggaa actccgtgac ttttgagggg 720
ggggagaaca gggtgtatgc agttcctaca gcatgtcctg tggcgcctca ggtccacgcg 780
gtttggcaga cctga 795

<210> 3083
<211> 939
<212> DNA
<213> A.fumigatus

<400> 3083
caaacaaatt ccggctggtc cgtccgtgcc agccccgcta taagtcgagc cgactcctcc 60
acgattccgc cttcgcctgc aaggactatc tttgaggaac gcctgagcga gtcggggaca 120
cagcccatcg acattgccaa agcgaatagc caatcccagg atgactcgga agctccacaa 180
gccaccactc ctctgcttcc tcccttcatg ggggacgagc cactgagtgt tactgcctcc 240
cgagttcaat cacctctgca gtcaccgtcg gtcgccgacg tctccgagga gagcctggac 300
aagggcatga tgtcgtcaga ccctcgcctg gcaggaatgc cgtcacctcc gctgtcgacc 360
aagccgtcgg tcgcgtcttt caatcgtcca cgcgccagca ctatgcggac gctgtctggc 420
gagggtccat ccttcgcgtt gaccgatccg aacgacgagt gggcgacaca acttggccat 480
gccaatttca ctatccagcc cgagccttac gtgccggaag tctacgatct gagctcattc 540
cggcaattgc gcgaacactg ggaccaagca cagtgcaact ttaccaagca tctggtccgg 600
accggtgaac actacggtgt gacctccacc atctacaagc tcacggaggc caagtgggac 660
gcgatcaaca gtgaatggaa gcgcacctat gacgagatgt tgtcccaact ggatgcgacc 720
gacggctcgc tgatgggcat catccagtct caaggcaacc cctgtgagcc agtcaaaatt 780
cctcggttac acgatgagaa gttccccgaa ctgggcgatg gcgagatcgt cggtcccatg 840
aaaatcgctc cggcggcgaa tatgccagcc cgctgccgga gccgatcctt gaaacgaagc 900
tttttcaaat tcttccagga tctcatatcg cgatcctga 939

<210> 3084
<211> 477
<212> DNA
<213> A.fumigatus

<400> 3084
ccccactcca ccccgcaaac tgacggctca tactgcgttc ctaccgtcaa catgtggacg 60
actaccagcg gcttgagtgg tcggtcgctc cggttgagca tcacctttgc cgctgtcgtt 120
ggattctcgc tctttggcta caatcagggc atgatggccg gtctcctcaa cggcgacgag 180
tttgttaact ccttcccaat cctcaaaatg cccgacaatc cgactgcagg ggagaaacac 240
tacatcgacg tcatccgtgg tgctgttaca tcctgctatg agcttggctg tttcttcggc 300
gcgttgttct ccatgttctg cggcaataga ctcggccgca cccgcctgat cttcatgggt 360
gccagtatcc tgatcgttgg cgccttgctt acaacggtct gctacactgg taaatgggag 420
gttggtcagt ttgttattgg ccgtgttgta tcgggcattg gaaatggtat gaacacg 477

<210> 3085
<211> 426
<212> DNA
<213> A.fumigatus

<400> 3085
accgcgaaag atgtgaatgg aaagacaaca ttccaaatcc acaccaacgt agtctttccc 60
cccgttctat acccgccaac ccaacagcac aacccgcctg tcccaactcc agaatggtcc 120
tcgctcatcc aatcctggtg tcgccatcat cgcatctacc gcctctcgct gattgaagcg 180
atcgagagcc cgctcttcca taatggtacg ctgcggacac ggttaagtat gagcgaggct 240

agggctgtat tggactggat ggccaaaccc gaagaggaag ggggtggcgg gaggcgcgcg 300
gaatggatcg atgggggaag taagtcggta gcctggattt ggtggaggag accggaggag 360
tgggcgggga ttgtggcaga ttgggtgtgt acttcctttt cctctgcttg ttggctagct 420
tgctga 426

<210> 3086
<211> 336
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (38)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3086
tcgtttgatg catgttcaat gtacgttgat gtgatctncc atctagcgag gatgttcgat 60
gtagtactaa tgttctcttc actgattgct cgtatgttgc aactctcgag tgttgtctgt 120
atgctcttct ctatgcacct cttccatcgt gtgatctcca cgatatgtct gatcatcatc 180
cttatcttca tggagctgac caagccgtcc tctgatgtgg tgaaggtctt ctatacaata 240
gcttatgagg cactgtatcg tggctcgtat cctatctatg tttctactat atattgttct 300
tctctacgcg tcgcattgat gacgatggat atctac 336

<210> 3087
<211> 474
<212> DNA
<213> A.fumigatus

<400> 3087
cttgcatcaa cgttcgaggc acatggcggg gagaccgtga tctacgagcc gccagcagac 60
tttccgcccc ttacagaagg attcacacat ctgatatcaa ataccgtgga ttttcctgca 120
tttgatgctg ctaatgatgc gctcataccc gtcgtcaaac cgcaatgggt gcaggcgtct 180
ctcgcgaaga aaaagttggc caacccgcga cagtacaacc cggatcctag gctattcttg 240
aacgatgtcg tcgtcatgtg cggtgatatt ccagaagggg ataaggatgc gattattggc 300
ggcgttttgg ccaaaggcgg cctctacagt cccagggtgt ctggtatggt cactcacttg 360
gtcgacctga cgatggattc cgacaaggcg cgaatcgtca cttctcgaaa gctgaacatc 420
aagattgtgc ttcctcactg gtatgactgc gattacccta caatctttga ttga 474

<210> 3088
<211> 612
<212> DNA
<213> A.fumigatus

<400> 3088
gcttcagggc caggcgtcac cacaatgcga gggcactggg gactgcaatc gccctacgta 60
tttcctacaa actctacgac ggtaaggaat catttgcagg acactctgac tgtacaaacg 120
cgacccatgc tcatcctcgg cagtatcata gacgacccca gaaattcgca tctcatcaga 180
tggtccgaca agggggattc tttcatcatt ccagacagga acaaatttgc gcggacgtta 240
ctccctacaa tttacggtca tggtaacttc agagcatttt gccgccttct atggtactac 300
aagttggatc tcaagaagca atcctctccg tggaggtcat ggcaaaggac tccgttcaga 360
gaattcagca atcctaattt tcgacgagac gatgacgctg ggtttttgcg tattgaagga 420
cgaaggaaga agactaagga gtcctcaaac cctgtatctc ggtcttccgt gtccgatccg 480
ttttcccgtt ctggcggaga atccagtatg gatgaagatc atgtcgcaag cgacatgtgg 540
cgaggcggca aggcatgcga gagtgtccga ggatcataca ctagatatcc aaagcggaga 600
cgggtatctt ag 612

<210> 3089
<211> 270
<212> DNA
<213> A.fumigatus

<400> 3089
ggctctgaat gcattctacc cttgaatgga gtcgggttgc taaccgtgtg cgaagtgggt 60
atcacgcgac acacgcagcg cggacatatt gctcgcgcga ccatggaagc agcctgcttc 120
cagacgaagg ctattctcga tgccatggca aaggacagtg gacacaaatt gtcggaattg 180
gccgtggacg gcggaatgag taattccgac atttgcatgc aggtacgtct ccgaaagaaa 240
gcaagctctc cgcttcacgg atatcagtga 270

<210> 3090
<211> 270
<212> DNA
<213> A.fumigatus

<400> 3090
acacaagccg atatcatcca aatccccgtc gagcgtcccg ccatgcacga gaccaccgcg 60
ctgggcgccg ccatcgctgc cgggttcgcc attgacgtct ggaaggagtt cagtgagctc 120
aagaacatga accgcgccaa ccgcaccacc ttcacacccc gcatctcgcc cgcccagagc 180
gcacggatgt acaagcagtg gtccaaggcc gtcgagatgt cccgaggctg gctggacacg 240
agcgagatcg agtccgagga ccaacagtaa 270

<210> 3091
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3091
caacctgatt tcaagatggc cttcttacaa gcacaggtgc aaaatcccaa ctttacaact 60
tcattgataa cggatgaaca tgttataagc atgtatatgc aatacagtac attgatcgct 120
cattcttaca ccgatatgcc caaaccttat atgcaacaat tgctgttttg ggacttcata 180
ttcgaaggag gagaagccac caagaactca taa 213

<210> 3092
<211> 771
<212> DNA
<213> A.fumigatus

<400> 3092
ccaaatactg atttctgtgt cagggaggaa catgaggaca ctttgcttca tgaaaccctt 60
ttgtgcctga aggctctctg cacaacttct gtcgcattga agcacctgac caaaattgag 120
gctgaactct tcccagcatt gttgaagatg ttgttcgatg aggaaaagaa aggaccgagc 180
gaatacacca cccgcggcat catcatgaat ctccttttca ctcagcttgc taccgcctcc 240
tccgacgaga tggcaacagc atgcgcctca cggatccttt cttacttgca ggatccaagt 300
cccccggaag aaagccaacc gctctcgttc attgccaata tctaccagtc tcgcccttat 360
cgagtgtggt gtaaggaagt cagcaatgta accaaagagg tgttttggat ttttcttcat 420
cacctcaatg tcatacccat cgtcaagtcc gacaaatcgc catcagaact agagcaacag 480
acgttccgag agcgacattt tccggcacct agacctcctg ttcccgccgc gccgtacgta 540
ggtggggtcg aatgggatgc caccaactat ctcgcagcgc atctggacct gatgaacggc 600
ctcattgcat gcctgccatc tgttgaagaa cgcaacaatt tgcgttcaga actccgcgct 660
tctgggtttg agaaggtaat gggcggcagt ctgagaacat gcaaggagaa attctactcc 720
tccgtccacg attgtctccg aacatggact gcagctgcag ttgaggatgg a 771

<210> 3093

<211> 276
<212> DNA
<213> A.fumigatus

<400> 3093
accgtgtctc tctctgctac agccagtcgc gacactgctg ccgatccatc ggactttgtc 60
cactatctac gcgagataca aaagcctgag atgatcgaga tcgggaaaat acacaagctt 120
cgtatcctat tgcgcaatga gaccgtcagc tgggttgata ctttcattgc cgatggcggt 180
atggacgaaa ttgtccagtt gctttacagg ataatgaaag ttgagtggcg gtacgttcat 240
gcggtccgaa ctgatgtcct tatgaccaaa tactga 276

<210> 3094
<211> 270
<212> DNA
<213> A.fumigatus

<400> 3094
gacgttggct cgtggaggcg acgctgctgg catatcgctt ccttagaaac ggtgtactat 60
gactactact actactacta ctactactac tactactact actactacta ctactactac 120
tactactact actactacta ctactactac tactactact actactcctg ctgctgctgt 180
tgtcctaccg ctacccacac aacactttct ctatgtcggg gcaatattta tgaaattact 240
gacgccatgt gcatgccatt ttcatcatta 270

<210> 3095
<211> 1077
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (495),(555),(558)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3095
cttgaaattt ctctcccgct gctgttgaca agtcctttgg aaatgcgtcc tcggcatcgc 60
gaagagttcg aaatcgccat tttttgcagc ttaccctgtg aagccgaggc gatcgaggca 120
ttgctagatg aggtctacga ccggttcggc aagatctacg ataaggaacc cgaggatcgt 180
aatgtctata taaacggacg aattggcaag cacaatgtgg tcttatgcca agtgccggag 240
tcgggcaaat gcagctcagc gagcgtagcg tcgagtttga cattcagtta tacaggtatc 300
cagctcgccc ttgtcgttgg gatatgcagt ggtgttccct cgccgtcctg cagtgagcgg 360
gagatctttt tgggagacat tgtcattgcg gatagtgtga ttgaattcga cgtgggagag 420
cagtgtcctt ggggattcca gcgggaaacg agcgttgagg ctgcccatga aagacctgtc 480
cttgaaagac cgaanagagc tataagaaat cttttgaatg ctctatcaat tcacggaaac 540
cgcgcattaa tggangcnga aagtgctggc ttcttgaaaa gctacagtcc agaggaggtc 600
caaagtggca gtatcccgga gcatcgaaag atatcttttt cacgtctgca tatcgacacc 660
agcatcgccg agattctgtt tgcattccac gacgagtatg aggatacgct ctgcaagggc 720
gcattggaag aagaatgcta catctctgca tgcgcggagg aacaagtctg tcgccgcagt 780
tccagcgacg agtcagtcaa gcctgcactc catgttggga tgatcgcatc gggagacacg 840
gtaatggagt ccgcagaaca ccgtgacatg attgcggaga cggagggggt aatcgccttt 900
gagaccatcg gggcaggaat gtgggatact cttccttgtg tgataatcaa cggcgtatcc 960
gattatgctg atggccgtaa gaatgaagga tggcaaaact atgcagcggc agtagccgct 1020
tcaggtgcta aagcgtttct gcaatactgg gcaccctgtg caaaagctag tgagtga 1077

<210> 3096
<211> 438
<212> DNA

<213> A.fumigatus

<400> 3096
catatactga ggataagcac gcagacaatc caattgtgtc ttttcacaaa gacatggagc 60
tttgccaact atccctcgtc tggcctgaag gacatcacgt ttcccatttc gatggcggat 120
acgcctcacg agactggcta ctatttcgca cagcaattca ccttcaccgg tgtctttgat 180
gtcgggcata tcggtctcca gccccgttcc gatgcctccg gttcaagcat cgtccacgct 240
gttttctcca gcttcgtgtc cggaaccacg agcaccgacc caaactgcca cgacggcgca 300
gacggcggcg cagatgtcag ctgcgcggtg gaaatcccag ctccatatgc tccactctat 360
gacctcgtgg tccagaactc agccgggacc acctgtcttc atccatcggg gatggacaga 420
gcgcgattaa gccaaccc 438

<210> 3097
<211> 390
<212> DNA
<213> A.fumigatus

<400> 3097
cctgcaggag gaacaattgg aaccggtctg tttatcagca gtggaacggc catcgcgcac 60
gctggtccag tcggggctct gatcgcatac atctttgtcg ggacgatcgt ctactcggtg 120
atgacctcgc tgggagaagt tgcgacgtac atccccaccg cgggcgcctt cacctcgtat 180
acaacacgac tggtcgatcc cagtctggga tttgccatgg gatggatcta ctggttcaac 240
tggggcttcc gactacgcgg tggaattgac ggcctccggg atgatcatcc cctactgggg 300
acgaggaact ggtcgattgc tatctttctc cggggtgttc gggtgttcac cacgccgatc 360
aacttccggc ccgtcggctt ctactgggaa 390

<210> 3098
<211> 537
<212> DNA
<213> A.fumigatus

<400> 3098
tcggaagccc cagttgaacc agtagatcca tcccatggca aatcccagac tgggatcgac 60
cagtcgtgtt gtatacgagg tgaaggcgcc cgcggtgggg atgtacgtcg caacttctcc 120
cagcgaggtc atcaccgagt agacgatcgt cccgacaaag atgtatgcga tcagagcccc 180
gactggacca gcgtgcgcga tggccgttcc actgctgata aacagaccgg ttccaattgt 240
tcctcctgca ggctattaga ctttttttttc ttgttgttcc ccctcctccg taaaagatca 300
gatactgacc gatggcaatc atctgcaagt gtctatcctt caactgccgc ttcagatcgg 360
gcgtctccga ctcctgtacc tcctcattgc tctcctcatc gctgtgatgg tcgcctcgca 420
gcgagtttac cttgctcgag cgaaaccgaa ccttgtctgc taatctccga cgcttttcag 480
cgctggatac ctccagaccc ttggcatctg aggtcagatt gtcttgaaca gccatga 537

<210> 3099
<211> 210
<212> DNA
<213> A.fumigatus

<400> 3099
aagcctagtg tgttatattt gatctatcgc tcctctctga gccttgtggc tctcccttcg 60
gggttcaagg gctgcttgac tcgggatgga tggaggatga taaaggcgtt cggcacatct 120
ccttgttact tcgacggacg cgatgaaggc atctctgata ccaaatacat tacttggtgg 180
tgtttgctcc tccatggact ttccatatga 210

<210> 3100
<211> 183
<212> DNA

<213> A.fumigatus

<400> 3100
gacgacggct tttattccgt tcatcagact cttccgactt tgctgaacgt cgagtggcag 60
cataacaata ctgttgaaaa ttctgtacac gcatactcga agccatatcc agtctgcaat 120
aatggagatt tcgagttcaa gcatgagcag gcctacctcg atgaggggca gaacttttgg 180
tga 183

<210> 3101
<211> 879
<212> DNA
<213> A.fumigatus

<400> 3101
ttaagctgct acttggagca tggggcagat gtcaatgcaa ggagcgcgtt taaagggtgg 60
acagcattct ttgaagcagc ttctaatggc cataaagctg tggtgcagtt gctgtttgat 120
tgcggggcag acgtcaccat gaaagatgag gatgggtgga cgccgctgtg tcaggcagca 180
tccagaggac atgaggcagt ggcagggcta ctagttagcc atggagccga tatcaatgca 240
agggacggaa atggaaggac agcattatac cgagcagctt ctgatgggta tgaggcagtg 300
gtatgtctgc tacttgacca tggggcagat attaatgcaa ggggcaagta taagggtcgg 360
acggcactct ttgaggcagc ttctaatggc catgaggcag tcgtgcatct gctacttgac 420
cgcggggcag atgtcaacat gaaagatgag gatgggcgga cgccgctgta tcaggcagca 480
tccagaggac atgaggcagt ggcagggctg ctagttggcc atggagctga tatcaatgca 540
agagataatg atgggcagac agcactgttc cgggcgtctt ccaatggtga tgaggctgtg 600
gtgcagttgc tggtcaaccg caaagcaaat gtcaacgtgg cggactactt tcgcgggatg 660
acaccgctat cccaggcagc ttccagaggt catgaagggg tagtgtcctt gctacttgac 720
catggagcag acatcaatgc aaaggacagt ggcgagtgga cggcactgga tgtagcggca 780
ttcaaagggc atgaggaggt tgtacggctg ctcagatttc cacagaagtt tggagtctct 840
ttcaagtttc accaaaagtt ctgcccctca tcgaggtag 879

<210> 3102
<211> 1017
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (76),(224),(278)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3102
ctccgggcgt gttttgtcag gaatttgttg acctggtaca gggaaccaaa ctcacattca 60
gtacatccag ccttantacc tgattttcaa gtcgctagct gcgtacctga agaaacatta 120
tcccaaagaa tcaccttgaa acaggagtct ggtatcgatg cgcaagaagc gctcaggcaa 180
attaaaagcg gcgcttccgg ccagacagca ccaccagcac ctcntccacc tcccgtgccg 240
actttgaatg tccctggagg agtcccacct ccgccccntc cgccacccgg cgctcttcct 300
gcgcccgttg ctgcagcacc ggacatgtcg gcagtctttg ctcagctgaa ccaaggcgat 360
gccatcacct ccggcctccg caaggttgat aaatccgaga tgacgcacaa gaaccccagc 420
ctgcgtgcgg gtgcaacggt ccctgaacgc cccagctctc agggtagcat ttctcgctcc 480
aagtctcctg ccccgagcaa gaagcccaag ccagagagca tgcgtgctcg taagccgccg 540
cgtaaagagc tcgaaggaaa caagtggctc cttgagaatt tcgataaccc cggtggcatc 600
atcgagattt ccgctcagca gaatcagtct attctaatca gccgttgcaa caagactatt 660
gtaaaggtga acaacaaggc caacgcaatc tccatcgaca actgcaacgg tctttccatc 720
atcgtggatt cgcttgtcag cagcctcgat gtcatcaagt ctgccaaatt tgctctgcag 780
attgacggag tcgtgcccac tcttctgctt gaccaagtcg acggtgcgac catctacctt 840
ggacagcaga gcttggctac cgaggtcttc tctagtaaat gcacggctgt caacgtcatg 900

ctcccgccta aggagggaac cgatgatgat accaaggagt gcccagttcc agaacagatc 960
aagtcatatg tcaaagacgg ggttctcgtg agcgaaatcg tcgagcatgc tggctag 1017

<210> 3103
<211> 762
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (47),(128)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3103
tcgttcgaac cggtcacccc accacagcac agcgttccat ttgggcntga accggcttat 60
atcgcaaacg agaacacagg tctttacact gcgattcctg acattacttc tgcagccacc 120
ttcaatcnta tgatgcagct accgccgtca aacctagcaa gcgcgtctta cccgatgcct 180
gccaggacat accattcgaa cgtatattcg gtgattgagg ggtctccaac gtacaagcaa 240
cgtcgtcgtc gctcttcaat tccaccgagt gccgcggcta atggacacgc ccaaacaaca 300
tccccaccat ctcagcagat tgcgtatgcc gcccatcggc cgagtgatct ccgacgttcc 360
gtctcaaatt cggtggtgcc ggcagcagaa ggggaggaca cacatgaagc ttctaatcat 420
ggcgcaaacg gatatacttc tgcagttctc ccacggagga atttgttgca cgatatgtcc 480
cgcaacggga ccccgctctc aaatgtcgag gaaaatcctg agtcgaatcc tcagacgacg 540
ggccatcagg atgacctggt cacgcttccc aatggagaag cgtacgaggg aggtgtgcag 600
aacaatgttt caaataaagt ggagcgattt actcctggcc ccattcgccg cgcccgaagt 660
gctacaatga tggagctagg accataccct cagaagtctc actcgtgccc gattccatcg 720
tgcgggcggc ttttcaagcg attggaacat ctcaaacggt ga 762

<210> 3104
<211> 642
<212> DNA
<213> A.fumigatus

<400> 3104
attctacagg cttacttctg gaccaatact cgcaagaaca taaccaaata caaccctatg 60
cggggcattg ttgacgatga tgtcgctcgc gtccttctgc acgatgtcat tgtcgcaaag 120
gatctcgcga aagcagaacg agaactgctg gcgatgtcag ggctgaagaa attcatggcc 180
cggttgccca acaatcgtga gaaggattgg ttccgccgtc acctgcgtaa atacatccag 240
atgtacctgc ctgactcccc gtttgagatc accacgacca atcgctacac aattacggaa 300
tatgaggctg cagtctgcgc tcgcaaattc atcaagcaag gacaggaaat caagtatctc 360
agcggaactc ttgtcccaat gactcgcgaa gaagagcggg atcttgacct gaagcggaag 420
gatttcagca tagtgatgtc cagcaggaaa aagactccat ctttttttcct tgggcctgct 480
agatttgcca accacgactg taatgcgaac ggaaaattgg tgacacgtgg atccgaaggc 540
atgcaggtcg tcgctactcg tgacatctac attggcgaag agattacagt atcctacgga 600
gacgactatt tcgtcttcac gccgcgccgg aagaaagaga gc 642

<210> 3105
<211> 1038
<212> DNA
<213> A.fumigatus

<400> 3105
accaccgcag gagtcttctt ggtaccccac tatccaagga gggctcgcaa aatctcacac 60
tttggttcgg taacccgaaa gctccatttc gcagaagaac ggaggaaggt ttgccaagct 120
caccaggaag agagcgagag ggatgatgag ccccagagaa agcagcctat ggtgcgaaag 180
aagtcagggg aacttgtgag acccgccctt cgccctccgt cggcgcggcg gcgcccgtct 240

agcatgccgg gtacgcccac ctacgcgaag gcggtgcatt ttgactctca acttgaacac 300
attcgtcact tcttgcagtt ggacaagcca caggcggtca gtgccaacac gtctcctgcg 360
gaggactata acaacgaaag tgaatttcct tttgaggcgc cttccttcga gcgggagatt 420
cgactttcaa acttcccgaa ggatgtctcc tctagagctc ttcaaaaggt gcggctcgaa 480
cgactattcc tatcatcgga caaggataca ttggttggcg tggtggcggt tgccaatctg 540
gcttttcaga agcacattgc cgctcgcttt accttcgact actggaggac agtctctgaa 600
gttactgcgg aatacagtga cgatgtccgt cggaagcaag ctaatgacgg ctacgaccgg 660
tttacattca gcatcaagct cactgaccat gcaaacttgg agcagaaaac catgtttgtc 720
tgcgtccgct atagcgtggc tgggcaggaa ttttgggaca acaataattt catgaattac 780
caagtcaact tcgttcggat cccccggcca cgcccagagc cgcggaggcc atccgctgca 840
acctcgcgcc caactcttcc tcgtagcaag agctttgccg gcgtcaacag ccgtccttcg 900
atgccttcct cgctcgatga ttttgatgag gatatgaacg attatttgtc ctttggtcgg 960
cccaagaaac ccttgaaaga ggaatcttca tccgagaatc tgttgaagga ggttcacaga 1020
atgtctgctt ccccgtga 1038

<210> 3106
<211> 444
<212> DNA
<213> A.fumigatus

<400> 3106
cccctcacga ttccgagtat aaaacatgcg ccagtctcca gcctccatcc tccacaatct 60
ttccacaagg aagcgacttc tgtgccattc aataaaatga agacaaaagc aacctccctc 120
ttcctctgcg tctcggcgct tgtatcctca atctctgccc tcaccatcag ccgaatcaat 180
ggaaacaaat acctctcgcc ctacgccggc gaaaccgtct ccaatatcca aggcctggta 240
acagccaaag gccctctgg cttttaccta cggtcaacaa ccccagacga cgacgacgcc 300
acctcggaat ccatgtacgt ctacggcagc accgctgtct ccaaagtctc cgtcggcgac 360
atcatctccc tttcggggaa agtctccgag taccgctcct cggcctcata cgttgtctta 420
accgcggggc gagataggcg taag 444

<210> 3107
<211> 261
<212> DNA
<213> A.fumigatus

<400> 3107
acattcccct ttttgctcag aggtcttttg gtctttattg gatgccgttg gctgactggt 60
gaaaacggcc ctaggctttt gcatgtcgct ggcacatatt tttttacgaa gggtttcctt 120
ctcactcgga tggtcttgga agataaatca gcttgcgacg ttcttccttt cgacgattcg 180
tcttcgtcag caagtaaagg gaaacaagga tgctggcatg aaaagtcatt tgacaaggct 240
attgtgatca ctatagatgc a 261

<210> 3108
<211> 1332
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (278)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3108
ggtcttttag gttcgccaag tttcccaaca ccagtcccaa aaattttcgt acgcatcccc 60
tcaacgcttt ttgccagccg ccagtcgttt tcggatttcc ataccagccc caacttaggt 120
atgatacagc ttacgccccc ttcaaatgca cagtcaagtc ttccgtaccc tcctgtcatg 180

cacttgactc aacatactct tcaacctgta caagcgccga tgatgagtcc tccaatgcgt 240
tggggttttg aagcgtcacc acctacagga acctttgnta gtcctcggcg tagcaatcaa 300
tggacgccgc ggcaatttag cacacaccag aatcaatctt cctctaatgg aaactcaatg 360
aaacacggcg gaaaacggga tcatgcatcg gcatttggag gaaaaccgcc aacggttgca 420
ccttccgttc ctgcaccgcc tccggtccca agcttcggca accctctgcc tgtgaaacct 480
cctccggcag ttgatgctgc aaatccaaga aaaaagaata gaaaacacaa ccagttaggg 540
cttacaccca aaaccgagga tcatgaatcg agtgaggagg acgacgtgga tgaagaatcc 600
aggttggcgc ctgcggctgc cagtgctata gtgccgttgc gattcaccta taaaggacgg 660
acgtccacac ttcagtcacc cacagacatt gccgcatgga ttgaggaacg gaagaaacga 720
tttccgacgc aagcaaaggc tgaagagaag aggaaggcta tgcaggaggc caagaaggcc 780
cgtgaagaag ctttgaacaa gaaaaggatt gagagacagg agcaaagacg agcccagaag 840
gtcgccaatg atagaccaga gagcgtcatt gatccggcgg atgcggccgc aaaggcgaaa 900
cgaaaggctg ataagcttca acgcaagttg ctaaaggagc aggaacgggt agccaaagcg 960
gaggcggatg ccgagcgggc tcggctcgaa gttgaaaggc tgcagaaggt ggccatggag 1020
gcgagaagag ggtcagagtc tgcaacgcag aaaactgaaa ttcaaccttc cgtcgctgca 1080
gaaaagccgg acccagaatc tggtcagaaa gtggagatgg tcggctccaa ggacaacaac 1140
tcggaggctg tggctgtccc taccgagagt tctatcgcat ccatggccca tgggacagtg 1200
gtaacaaaga ttgaacccgg tgactcggta gagagtcgaa acgaggaatc cgccgcatca 1260
tctttcgacg attcggacag cagtgactgg acgtcatcaa gtggatctga catctcttcg 1320
gattccgacg ag 1332

<210> 3109
<211> 798
<212> DNA
<213> A.fumigatus

<400> 3109
tatgttccag tacgtttccc tctcgctatc aattcggacc accgcctgct gacaacttac 60
agatccgaag cgaaaggtat gctcatggac ttcaagtcca gagaaaaggg aggcaccacg 120
tattctcatg tgcttgaagt ccttctccgt atgcgacaag tttgcaacca ttgggcgctc 180
tgcaaacacc gtgttgacgc cctcgcgggt ctactggaga agcacaaggt cgtcccgttg 240
accccggaga acataaaagc ccttcaggac acgctgcagc tcagaatcga gagccaggaa 300
atgtgcccta tctgtctcga tatcctagag cagcccgtta tcaccgcttg cggccattcc 360
tacgaccgag gttgcataga gcaagtcatc gagcgacagc acaagtgccc cctctgccgc 420
gccaacatcg acgacaactc caccctcgtc gcccccgccg tggatctcgg tgaaagcgcc 480
gacgaggacg tcgacgcaga cccaaacaac ccaagtagca agatcgaagc cctgatcaag 540
atcctcaccg cgcagggcca agcacccgac accaaaaccg tcgtcttcag ccaatggacc 600
tcgttcctta cccttgtcga gcctcacctg caacgccacg gcatcggata cgcccgcatc 660
gacggcagta tgaagtcgac agcccgcgac gcctccacat acaagttctc caaggaccca 720
cagtgcaagg ttctcctcgc cagtctgagc gtctgcagcg tcggcttgaa ccttgtcgcg 780
gccaaccagg ccatcctg 798

<210> 3110
<211> 231
<212> DNA
<213> A.fumigatus

<400> 3110
agatggcgct gctccttcca gccccgtggt gaagacggtc gtctcctcct ccaggcactg 60
atgagcgcaa tctgcctgag gcgaagaaag gatatggaat ttgtcaatct gcgcctgccg 120
gccctcacct cgcgtgtgtt gcgcatcaag tttcatcctc atgaacaaga gaaatatgat 180
atgttccagt acgtttccct ctcgctatca attcggacca ccgcctgctg a 231

<210> 3111
<211> 663
<212> DNA

<213> A.fumigatus

<400> 3111
agcaacaata ccgcatcagg tggttatgtc tggggccact atgtctcgca atacgccgat 60
gtgaacctgt acaactacgc cgtcagcggc gccgtatgct ccaacgagat caccccacgc 120
acattctctt ccattaacgc tcctttccct tctgttttgg aatacgaagt gtccgccttc 180
ctggctgaca gcaagcataa agtctctgga aagaggttcc tccacatccc accccgggaa 240
acggtgtact cgatctggat cggcaccaat gatttgggca actacgcctt tatcaccgac 300
tcccaggtca aggataaaac catcccggat tacatcaact gcgtgtactc tgtgctcgac 360
cgcgtctatg caagtggcgg ccgatacttc gtgctcatga acctggcgcc cctgcagctg 420
gcacccctgt atgcgacgcc cgagaacggc ggcgtggggg ccaaccacta ctggcccgac 480
aagcccgata atctgacctt gaccagttac cggatgtggg agcaggttgc gactgtgaac 540
catgtgttcc agtaccagac gccgtatgag ctgttggtag cccggaggta tcccggggcg 600
cggtttgcgg tgatggacat gtatggattg gtatgttgcg tattagtcat tgggtctgga 660
tga 663

<210> 3112
<211> 267
<212> DNA
<213> A.fumigatus

<400> 3112
tcattgggtc tggatgacac tgatttttgg cagctttccg aggtttatta caatcccaca 60
aagtatttca acggaagtgc acaggccaat gtgaccgggt tcaacaatca ctgcacgctt 120
gacggagggc agtgcacccg gctcccaagt ccagattcct tcatgtggtt cgatgagttg 180
catccctcgc agcgaacaga ccaaattatc gccgaggagt ttgtcaaggt tgtcgggggg 240
gacagtaagt gggctaccta ctggtaa 267

<210> 3113
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3113
aatactttgt gggattgtaa taaacctcgg aaagctgcca aaaatcagtg tcatccagac 60
ccaatgacta atacgcaaca taccaatcca tacatgtcca tcaccgcaaa ccgcgccccg 120
ggatacctcc gggctaccaa cagctcatac ggcgtctggt actggaacac atggttcaca 180
gtcgcaacct gctcccacat ccggtaa 207

<210> 3114
<211> 477
<212> DNA
<213> A.fumigatus

<400> 3114
ccaactgaac ttaaatcaca gaatatggcc caaaagccaa aaaaacaacg agtgaccact 60
gccgtcttcg tcacatctat tccccttgat gctgagttcg atgagatccg cgacgtcttc 120
tccaagtgtg gcgttatcgc cgaagagatt gacagtggcc ggccccgaat taagatgtat 180
atggatgaaa acggcaagtt caagggcgag gctttgatag tgtatttccg gccggagtct 240
gtcaacctcg ccatacagat gctggacgag tcagacttta ggttaggggt gtcggggccg 300
cagggaccga tgaaggtcca ggctgcagat ttctcgttca agagccaaca agaggcaccg 360
gcaaagagca gcatgaggga taagaaaaag atcatcaaga ggactcagaa actaaatagg 420
tctgtccaag gcaacccgcg ggacttgaca agatgtgggc tgacgtggtc atactag 477

<210> 3115
<211> 618

<212> DNA
<213> A.fumigatus

<400> 3115
gacttctcat cggcatcatt tgccaattcc ttggtcctgg caaccaacaa tgccacagac 60
acaccgttgg acctttccac gccactgtca cgggtgctat ttgaccttca agaaattgat 120
actcatatac acaatctgac gagcaagtca gctatccctc tgcttacgca cacgcgagat 180
cagaccgttg ctgcagagcg gattctcaag gagacggagg agcaattatc ctctgtgacc 240
aaaggctatg aacgcctgga gcaagaagtt ttacgaaaat gggaggccgc ggatgaggct 300
agagtggctg cagaaaagtc gttggcaacc gtgcgattag cgagagcggt cgcgcgttgt 360
ctggctctcg gcaggcagtt ggagggtcag ctttctgagg taactggtcg aggtggcccc 420
gcagcgactg caggagcaca agatcgctct tctgccaacc ctggcagaga ggactaccgg 480
gcgctggagc gagccgcatc taccattgtg agtttgcgac ggatgttctc cgctacagcc 540
gtgggcgagg aaggctacgg attggaacgt gtcaacgtca tccggacttt gagaggtgag 600
ctggtgattc ccggctga 618

<210> 3116
<211> 429
<212> DNA
<213> A.fumigatus

<400> 3116
ctgacaacgt ttaggggcat tcgttgggct cccttgaata tcggtattga acgacgcatg 60
cagacgttcg tggtcttatg ccacactttg acaatcgcga tattcctcac agtgttcttc 120
ttcgcttgtg ccctacctgt cttctggcca ctgttactac cctacctagt ttacatttca 180
ctttttttcat catctgcaac gtctggaacg ttaagtgggc gtagcaattt catgcgttcg 240
ctctcaatat ggtcacttta tgcctcctat tttcctgctt gcttgcatcg ctctgaagcg 300
ctacttccaa cacgcaaata tatattcggc taccaccccc atggcatact ttctcacggt 360
gcatttgctg catttgctac tgaagcactc ggattttcga ggttgtttcc gggaatgtct 420
tcaccacgg 429

<210> 3117
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3117
gtgggcgtag caatttcatg cgttcgctct caatatggtc actttatgcc tcctattttc 60
ctgcttgctt gcatcgctct gaagcgctac ttccaacacg caaatatata ttcggctacc 120
acccccatgg catactttct cacggtgcat ttgctgcatt tgctactgaa gcactcggat 180
tttcgaggtt gtttccggga atgtcttcac cacggg 216

<210> 3118
<211> 1113
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (172)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3118
atattagcaa gcgggcagtt ttcgcacctt ccagggtacg gaacccttttg cagcctggtt 60
gacaggttgg tccactggat tggccaagat cacagcagcg ccgtcggtag attttgcatg 120
gcggcgattg attctggcag ttgcatcgat ttccacccgg actatatccc anccagtggc 180

aagacgttcc tcctcactac gctgatcatg atcatccaca gcttcatcag tagcatgccg 240
acgaaatggg tcgcgaggtt caattcatac ggttccacct tcaacatgat ggctctcgtt 300
gtcgtcctca ttgccattcc tgcgggtacg aagaacgaac cgaaattcaa tccgtcaaaa 360
gaggtatggg gcaccatcac caacggtacg gagtttccgg acggcgtggc tgtgctcatg 420
acctttgtcg gtgtcatctg gacaatgtca ggctacgatt cgcctttcca tctgagcgag 480
gaatgctcga atgcaaacgt cgcctcgccg cgcgccattg tgatgacctc tggggtcggc 540
ggcctcatgg gctggtttct gcagctggta gtcgcctaca ctgtcctcga catcgaggcc 600
gtaattgact cggatctcgg acaaccttgg gcatcgtact tgctacaagt catgccgcgc 660
aaaacagcca tggccattct cggacttacc attgtctgcg ggttttccat gggccaaggc 720
tgcatggttg ccgcatcgcg agtgacctac gcctacgctc gcgatgattg cttccccttg 780
tcacggatct ggaagaaggt caacgagagg accaagactc ctgtcaacgc cgttatcctc 840
aacactgttc tgggtattct gatgtgcctt cttattctgg cgggcgatgt ggccatcgga 900
gccttgtttt ctattggcgc cattgcacag tttgtcgcct ttaccatacc catttctatc 960
cgggtgttct tcgtggggaa ccgcttccaa aaggggccat ggcacctggg cccatttggt 1020
ccggcgattg gagggctcgg cgtcttgttt gttctgttga tggtgcccat tttgtgtctt 1080
ccccagcgtg agaggggcgg atttgatccc tga 1113

<210> 3119
<211> 198
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (165)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3119
caagcgggca gttttcgcac cttccagggt acggaaccct ttgcagcctg gttgacaggt 60
tggtccactg gattggccaa gatcacagca gcgccgtcgg tagattttgc atggcggcga 120
ttgattctgg cagttgcatc gatttccacc cggactatat cccanccagt ggcaagacgt 180
tcctcctcac tacgctga 198

<210> 3120
<211> 264
<212> DNA
<213> A.fumigatus

<400> 3120
tggtgcccat tttgtgtctt ccccagcgtg agaggggcgg atttgatccc tgaccagatg 60
aactggactt gtctggtttg gggtgcgccg atgctgacgg tgactatctg gtgggtcatt 120
gatgcacgca ggtggttcaa gggtcccaaa atcaatgtgg agcatgttat ccatggcgtg 180
gaggcgatcg tggatgtggg ggtggaggcg gaggaccaac ggagccaaag tcaagatgca 240
gcgagcaagt cttcgaatgt gtag 264

<210> 3121
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3121
caactttgcc gtcggaaaac tgctgctaga gtgctttact gtacttcatg gtatccttct 60
ctcgccgtct tcaaccagca agacctcttt gcgacctcga aaacgcacat tgagctcact 120
gtccaatgcc attctggtct cacacatttc cattatcaaa tttcctccga ctgcgccgtc 180
tccgcacctc cacgtgaccc tccccagacg caactttccc cactttcatc cattatcggt 240
ctttatcgct aa 252

<210> 3122
<211> 1212
<212> DNA
<213> A.fumigatus

<400> 3122
gccgagcaaa cggaccccat gcaccggctt gcccttgtca cagcatatga ggccatggaa 60
atggcaggca tgttccccgc cgcaatccgt tccacccggc caaaccgcat cggcacattc 120
tacggacaag cgagcgacga ctggcgcgaa ctgaacgcct cgcagaacat cagcacgtat 180
gcggtgcctg gtggcgagcg cgcctttgcc aatgggcgaa tcaactactt cttcaagttt 240
tccgggccat cctacaacat tgataccgcc tgttcgagtg gcctcgcggc agtgcaggca 300
gcctgctcgg ccctgtgggc cggcgaggcc gatacggtca ttgctggggg gctgaacgtt 360
atcacggatc ctgacaacta cgccggtctt gggaacggcc atttcctctc caagacggga 420
caatgcaagg tttgggataa ggacgccgac gggtattgcc gcgccgatgg catcgggtcg 480
gttgttatca agcgcctgga agatgccgag gcggacaacg acaacatcct ggctgtgatt 540
ctgggcgctc gcacgaatca ttccgctgag gctgtctcga tcacacaccc gcatgctggc 600
gcgcaaaagg ccaattaccg ccaggtgctg caccaagcgg gcgtcaaccc ccttgatgtg 660
agctatgtcg agcttcacgg cactggcacc caggctggtg atgcggtgga gtccgaatcg 720
gtgtctgatg tctttgcgcc ttctacgcct cgccgtcgac ccgatcagcg cctgtatctg 780
ggcgcagtga agagtaacat cgggcatggt gaggcagcgg caggcatcac ttccctgctc 840
aaggcgctcc tggtgttcca aaagaacatg atccccaagc atatcggcat caaaaccgag 900
atcaatccta tcattcccaa ggacctggag cgacgccacg tgggtttggc catggagaac 960
accccgtggc cacggcctgc cgggaaaaag cgtcttgcgg tcgtcaactc gtttggagcg 1020
cacggcggca acaccaccgt gctcctagaa gacgccccgg agagagtgaa ggtttcaacc 1080
caggacgacc gcacaactca tccagtagtc atctccgcaa agagcaagaa gtcgctccag 1140
gcgaatattg agaagctgct gtcgtggctg gatcagaacc cggacgccga aacctcgggg 1200
aactttcctt aa 1212

<210> 3123
<211> 441
<212> DNA
<213> A.fumigatus

<400> 3123
ctatccgctc tagtgagatg cattttgagt atctttgaag ctagtactga taccatgttc 60
tcagttatcg tgaagcatca aggcaaacgt catgaagtcg agctcgatcc atctgcaaat 120
ggcgaaacgc tgaaatatca aatgtactcc ttgactggag ttgaacccga gagacagaag 180
atcttggtca agggtggcca gctgaaagat gagacgcctt tgtccgccct caacgctaag 240
ccaggtcaga catttatgat gatgggtaca ccgtctggcg gccaagatgc ggtagacttg 300
ggacggccaa aggaaccagt caagtttctt gaggatatga ccgaagccga ggcggccaga 360
gcggaaggtg ccattcctgc tgggtctaaa aatcttggga ataactggta cctcaactcc 420
taccctacaa accctgaagg a 441

<210> 3124
<211> 459
<212> DNA
<213> A.fumigatus

<400> 3124
tctcaatcac tgcgcccgta ccttcaatgc gttcggtcct cgcttaccgc tgctcttgca 60
atctcgaact tcgcctcgca aacctccgaa aggcataatg tccctgaaat cgaggctcag 120
agctccccag aactgctcct caacccctc acaatttctc ggaatgagaa tgaaaaggtc 180
ttgattgagc ccagcgtaaa cagtgtgcgc gtcagcatca gaattaagca agcagatgaa 240
attgagcaca tcctggttca caagtttacc agattcttga cgcaacgagc agaatccttc 300
ttcatcttgc ggaggaaacc agtcaaggta cgtaaatcca ggccgcggag aggacaagtc 360

gctcacctgt tcaagggata cgacatctcg ttcttgatca cgcccttcca tacagaagct 420
atggtcttca ccacggggct ggaaggggcc gctgccatt 459

<210> 3125
<211> 516
<212> DNA
<213> A.fumigatus

<400> 3125
gtatgtatga atgataggcc tccccccttgc acaaccattt ccgtcggttt catttcatat 60
ttgagcactc acttgctcat atccaatcgc gttacactga tccccctttac aattccaaac 120
caacaaatca cttttgccat tgtacttgtc tattattttt tcttcctttt ttttttttt 180
tttaatcctt ttgaccactt gctccagacc aatctcttga ttatccataa cagcactatt 240
gcgtcgcatt ttagtttcca gcgaattata ctcccttgcc aacctgtatc ctatcatcat 300
tcttcttctt cttcttcttt gttgtctgca atccggttta ttatcacggc gcgcagcgac 360
aaaaacccgc ccgttgtggc ttgttctcgt ttacgggtca acccgggccg ggctgacatc 420
agcggtagcc tcaaattatg tcggaacccc tttggttcgt tcctcctccc cttgggaaaa 480
acggatttcc cttcccccta tctcccagat atctcc 516

<210> 3126
<211> 408
<212> DNA
<213> A.fumigatus

<400> 3126
tggactgtca gacactcaat tgaactcttc aatgccacag atggctccag acataggaaa 60
acacgtaggc aatcaggact ttacccgcgc gacggcggtc atcatcggag ctggcatctc 120
cggtctgtac catccataga cgcttttcga cgtattgcac gtgcggcggt tgacataaga 180
ccaggaatat gcacggccat tgacctcatc aaacgcagca agtgccataa ctttatcatc 240
ctggagaaga gcagcggggt gggagggaca tggaacgata accgctaccc gggatcatgc 300
tgcgacgtct ggagttccct gtacagttac tcgtttgagc agaaggcaga ctggaccagg 360
gaatacccag gtcaagagga gatcttggta cttcctaccg tcgtctga 408

<210> 3127
<211> 522
<212> DNA
<213> A.fumigatus

<400> 3127
gtaatggtga taggcgcaac cgccgcccaa atcatccccg aaattgccaa aaccgccgcg 60
cacgtttccg tctaccagcg cacccccaac tgggtcatgc cgcgtctcga caggcccgtg 120
ggtgcggtgc aaagagccct gctgacatac atcccgccca tccggtggcg gaagcgcgcg 180
ctcatgatgg acttccggga gtggttcttc gaggccgtgg ttgataggaa ctcggcgctg 240
tcggatgtga tccgcaaaac gtgtcttgag agcatgcgag cgcagttgcc cgacaggccg 300
gatttgtggg atgtgttgac gccgaattac tcgccgggat gtaaacgggt gatcatctcg 360
gacgattttt acccgacact gggacgggag catgtcgccc tagaaactcg tcccacccag 420
cggattacgg aaacggggat cgacactgcc gacggcgaga ccaaggagtt tgacctcatt 480
gttgcggcga cggggttcag aacggtcgag ttcatgtatc cc 522

<210> 3128
<211> 585
<212> DNA
<213> A.fumigatus

<400> 3128
caggattatc tgattggcgt cgctcaaaag tacggcctat acaggtacat ccggttcaac 60

tcggctgtgg aggacgcacg atgggacgaa gccgacctca aatggaaggt cggtgtccga 120
gtctcgggag gaaaagatag ccagtacctg gagtcgtatg aaatcaccac cgactttctc 180
atttcggctg tcggacagct gaacgtccca cgcatgcctg atatccccgg actggacgac 240
tacaagggca aactgatgca ctccgcccgg tgggactgga gcttcgactg gacggggaag 300
agagtcgccg tgatcggaaa cggtgagtct cgcgcctcac actgcctaag gcaagacgta 360
agtaatggtg ataggcgcaa ccgccgccca aatcatcccc gaaattgcca aaaccgccgc 420
gcacgtttcc gtctaccagc gcacccccaa ctgggtcatg ccgcgtctcg acaggcccgt 480
gggtgcggtg caaagagccc tgctgacata catcccgccc atccggtggc ggaagcgcgc 540
gctcatgatg gacttccggg agtggttctt cgaggccgtg gttga 585

<210> 3129
<211> 312
<212> DNA
<213> A.fumigatus

<400> 3129
ctaacgtcgc gacagatcct tttcctcatc ggcttgacgt taatcattgg agttcaacgg 60
acactcgctt tcttttcgcg ccgccaaaaa cttaagggca ctgccgcttt cgcggcaggc 120
atcctcctca tcctgtttcg ctggccactg acaggtttcc tgatcgaatt atacggtctc 180
ttcatcctct tcggcgattt cctcgtaaca atcggtcaat ttgcagggaa catcccggtc 240
gtcggtcctt atatcaagac ggcattagag accttggcgg gtgggagacg gaacgcagag 300
ctcccggtat aa 312

<210> 3130
<211> 642
<212> DNA
<213> A.fumigatus

<400> 3130
cggcccttgc gtgaccacgg tttcactggc tttgcgttct actctagctg ggcctaccat 60
gcacccaaca acagcaccgt cgatttctcg actggtgctc gtgatatcac gcccatcttc 120
gagcttgcaa aggagctcgg catgtatatg attgtgcgcc cgggacccta cgtcaatgct 180
gaagccagcg cgggcggctt ccctctgtgg ctgatgactg gcgagtatgg ctcgctgcgg 240
aatgatgacc cgcggtatac ggccgcgtgg acgccgtatt ttgcaaacat gtctcaaatc 300
acgagcaagt accaggtcac ggacggccat aacacgctcg tctaccagat cgagaatgag 360
tacggccagc agtggattgg agacccgaag aatcgcaatc cgaataagac tgcggtagct 420
tacatggagc tcttggaagc gtctgctcgt gagaatggta tcacggtgcc attgacaagc 480
aacgatccca acatgaattc gaaatcttgg ggatcagact ggtccaatgc tggaggcaat 540
gtcgacgtgg ctggtctgga ttcctatccg tcagtgagtt accgtccaat tatttttat 600
ctgatctgct ctgactttgg aagtgctgga catgcgacgt aa 642

<210> 3131
<211> 696
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (640),(688)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3131
ttgattatta tgactacttc caagaagttc agcccactct tccctcattc atgcctgagt 60
tccagggcgg ttcctacaac ccctgggccg gtcctgaagg tggatgtcct caggacacca 120
gcgctgagtt tgctaacctg ttctaccgat gggaacattg gccagcgagt gactgccatg 180
agtttgtaca tgctgtatgg agggaccaac tggggtgcga ttgctgctcg tgtgacggca 240

accaggtacg agtactccgc tcccatctcc gaagatcgct cgattggggc caagtattcc 300
gagaccaagc tactggcatt gttcacccgt accgcaaagg atctcacaat gacagaggcg 360
atcggaaatg gaacacaata taccacaaac acagccgtcc gtgcattcga gttgagaaat 420
cctcagacaa atgccgggtt gtacgtcaca ttccacactg acaccactgt tggtggcaat 480
caagcattca aacttcatgt caacacttct gtcggtgcct tgaccgtccc caagaacgag 540
ggcctgatcc agctgaatgg acatcaatcc aagatcatcg taactgagtt cacgctcggc 600
aaacgcaata ttttatattc aactgccgag ctcttgagtn ttcactcgga gcaggaaacg 660
ggatccgcgc atatgaggcc gcaaccgnac gaagcg 696

<210> 3132
<211> 585
<212> DNA
<213> A.fumigatus

<400> 3132
cctcggtttc tcctcctctc acccatagtt gcgctcccaa gtgatatcac cgatgccctt 60
aaaatcgctc gcctcgcttc tcactggatg tttggtctct tcatcgcagc cactgtcctg 120
aatttcatcc tgatcttcct cgctccattt gccgtctcct ctcgtcctcc tcagacaatc 180
tcgcctgatc ctagcgtcaa cgaattgcat cctccgcacc ggcggcgcac cttccttttc 240
cttcgggcct ttccttttct cattcttact ttcctcgccg ctcttttcac cattgttgcc 300
tcagtggttg ccacggtcat gttcagcatc ttcaagaacg tcttcacatc gtcaggatac 360
gatctcaaca taggggctga attggggtcc cggatgatgg cgttcatgtg gattgcgtcg 420
gcagtcaatc tcctggcttt catcttagag cttggttcat gttgtgctgc gtgttgcggc 480
ggccgcaagg ctcggaaaga gctcaagtcc ctcaagaaga cagaacgagg agctataaac 540
gaaaagggca gcccccatag tcctgcgacg accgtaacag gttga 585

<210> 3133
<211> 336
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (132),(270)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3133
cagacgatta tggtgctctg gagccttcga tctctggcaa gatcatggag cttcaccaca 60
agaaaccacc accagaccta tgtcaacagc tacaaccagg ccatcgagca gctgcaggag 120
gctcaggcca anaatgacat tgcgtctcag atcgccctga agcccctgat caacttccac 180
ggcggtggtc acctcaatca cactcttttt tgggagaatc tggcccctaa aagctctggt 240
ggtggtgagc ccccgagtgg tgcgctggcn agggccatcc atgagaacta tggcagcttg 300
gaaaacttcc aaggtaaaat gaaccccgct ttggcc 336

<210> 3134
<211> 420
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (388)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3134
acatacttcg ttgcatttgc ctccgttaga ctggtcatgg agtcacccac ctcgtcgtcc 60

ttcgctggtc agaagcgtaa aatcgtcgag atgagctcag atgaggaaga tgctcgccct 120
cctacaggat tccgccgctt tgcgagagct tcctcgcgct ccgaatcgcc tccttctttc 180
ggcctgggaa gtgctcgtcg taatccctgg aatgtcaaca tgcagtcagc caccgcagcc 240
ccccgaggcg gaaacgccaa tagcagcaaa cccatcactg gtagagggaa ttcttttgct 300
gcgcgtatga tggctaagat gggttacaaa gaagggcaag gtttgggtgc aagtggacag 360
ggtattgtcg ccccgatcga agcccaancg ccgccgaccg ggcctggggt tgggttgccg 420

<210> 3135
<211> 1044
<212> DNA
<213> A.fumigatus

<400> 3135
agactcgcca attgcgctgt ctggatcaac ctcatcgtca tgttcatcac catgggcgga 60
gccgccaacg cgccccccaa ctacgcggcc gcctcggcgt cggcgggtgc ggtcatcaac 120
gaggccctca tcacgccggt gaacggcgtc tatccgcccg tccagacctc cggcggcctg 180
cccgaggcgg gtaacttcgt cggctcgctc aatggcgcga tgcaagccgt gtttgcatac 240
gggggggcca tggtgttccc ggaattcatg tcggagatga agcggcccaa ggactttctg 300
accgccatgt gggcggccca ggccttcatc tacttctggt acatgttcta cggcctgttc 360
atgtacggct atcagggcca gtacaacgtc aaccccagct acctggggat cggctcgtac 420
aacatctcga cggccggcaa cgtctttgcc atggtcagtg cggccattgc ggcgggtctg 480
tatggcaaca tcggtctgaa gggtatgtct gccgcaaaaa gtttccggag gtgtgttaat 540
gccgtactga ccgtcttagt cctgtacaac caagtcttcg tcgagctctt gcggtgcccg 600
ccgttgacca ctcggggcgg caagtggttc tgggtcatcc tggttcccat ctactggggg 660
atcgcctttg ctctcgccgc cggtatcccc aacttctccg gtctgacctc ggtggtcgcg 720
gccgtgtgta ttctgcaatt cacctacagc ttccccccctc tcctggccct ggcgtactgg 780
gtcaagcgcg ccgccctgcg agacggagag ggcttcgatc ccgcgacggg ccagaccatt 840
ctgcacgatc ggagcatgtc gcgtgtcatc cgcgggttcc tcgcgcagag acctaaggaa 900
ctggcgatga gtgtgttcaa cattttctac gtcttgggtg cattggtgtt ggcgggaatg 960
ggtgcatact ctgccattga gagtctgatc aatgcttttg cacagagccg tacgacgtcg 1020
tatacctgca agatcagtat atga 1044

<210> 3136
<211> 657
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (150)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3136
gtccgcaatg agtaccaaca agccagaaca ttccagtacc aagtcgacat ccacgatgcc 60
gtgcagggta agaatctcaa aaccatcacc ggcggccggt acaccctcca agcgaacgag 120
acccggacca tccgcaccac aacacacctn tcggacctga acttctggag ctgggggtac 180
ggctaccttt acgacgtccg gacctcgcta ctcctcaacc accacgccat cgactccgtc 240
aagacccgca ccggcttccg caagaccgag ttcacccacg gcgcgtttaa gctcaacgac 300
cgcaccctcc acctcaaagg ctatgcccaa cgcacaacaa acgaatggcc cgccctcggc 360
tgcgccgtcc caccctggct caccgatttc tcgaacagcc tcgtcctcgc cagtaacgcc 420
gccctcatcc gctggatgca cgtcacccca tggaaacaag acgtcgagtc gctcgatcgc 480
ctgggcctgc tccaggccct gccggcgggc gactccgaag gcgacgcaac aggccggcgc 540
tgggcgcagc gcacggagct catgcgcgac gcaatcatct accaccggaa cagccccagc 600
gtcatcttct acgaagccgg caaccacggg atctcggagg cgcacagagc gagatga 657

<210> 3137

<211> 564
<212> DNA
<213> A.fumigatus

<400> 3137
acttctggag ctgggggtac ggctaccttt acgacgtccg gacctcgcta ctcctcaacc 60
accacgccat cgactccgtc aagacccgca ccggcttccg caagaccgag ttcacccacg 120
gcgcgtttaa gctcaacgac cgcaccctcc acctcaaagg ctatgcccaa cgcacaacaa 180
acgaatggcc cgccctcggc tgcgccgtcc caccctggct caccgatttc tcgaacagcc 240
tcgtcctcgc cagtaacgcc gccctcatcc gctggatgca cgtcacccca tggaaacaag 300
acgtcgagtc gctcgatcgc ctgggcctgc tccaggccct gccggcgggc gactccgaag 360
gcgacgcaac aggccggcgc tgggcgcagc gcacggagct catgcgcgac gcaatcatct 420
accaccggaa cagccccagc gtcatcttct acgaagccgg caaccacggg atctcggagg 480
cgcacagagc gagatgaagg ctctgcggga tacgtacgac ccacacgggg gtcgcgcggc 540
gggatcgcgc gagatgctga atag 564

<210> 3138
<211> 924
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (871)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3138
ataacaggac agtcggcgat actattagaa gacaactatc ggtcatctgg ctctatttta 60
agatcggcgc aggacgtcat tgagcaggac tcatctcggc catccaggaa gctgcagccg 120
actcactgcc cgggaacaat gcctgtgttg cgcaagcttc cgactgcgga agccgaggcg 180
caatggatcg tgcttgagat taagcggtcc atggctatga caggaaaatt gctcaactac 240
tcggatttcg cgatcctgct cagatcggct gctctttcgc gacatatcga atctgagatg 300
ggcaagcaag gcgtaccgta caggatggtg ggtggtctac gcttcttcga tagagtcgag 360
atcaaggtat tgttggacta tctgagagtc ataagcaatc ctggaaatag tgacgcgctc 420
ctgcggatca ttaacatacc gtcacgaaag atcggcgagg agtccgtgaa gacgttgatg 480
aatggtgcag acacagcgaa gatccctttg tggaatttca ttaaagatgt agcgcagggt 540
cgcaggtcga ctgacaaaag cctgtccaaa cttactgacc aaggcctttg cactctcgtt 600
gggatcattg aatcatccag gcagaaactc ctcgaatgta cagacggctc tgcacctcgc 660
aagcttcttg agtttgtgat caagaaactc aattttcgag aatatcttac aacaacttac 720
tgtcagaatg aggaaaatcg atgggcgaac gtcgaagagc tcctggccca ggcaggtgat 780
gtggctgcca ctgcggctga aaagggtcag gatgatagtc tgcctgaaat tcaggggctt 840
gcccaacagc aggcccatca gggtttaaaa ncattgtccc aatttctggc aaatgttgcg 900
ttgtccaacg aaattcccct ctaa 924

<210> 3139
<211> 1236
<212> DNA
<213> A.fumigatus

<400> 3139
caatcgagtg gctctgtcca tcccgcggtg aagactactg accctagcaa accaatgcct 60
tccccccttga atacaagtga ccattgtcga gaaaaccgtc aagacaattc cagcgtgtta 120
cagagtcctg tatctcctcg atcatccgtt aaaacagctc cgccgcccaa ccattcttcg 180
accagccgga tagtccatgc tccatctccc tcaaaaccat ccggttctgg ccaggagtca 240
accacatcgt cggcaggcga tagggtgtgt ggtgacccga aacagcatga tagaggtgtg 300
attgcgatcg caaacgacat cggagcccgc aaattatcgg atacaggtga ctctgtgcag 360

tcaccaacat catcaccagt atcactactg gactccttgc aatcaatgtc tggggaccga 420
acacccgggc accgtattat gccccgcact tcgtcaattg attctgcaat ctcctctcta 480
tcgtcagcgt ctcaacccca caagtcgtcg tttgatgcca gcgcggtcag ccaagctgac 540
atcgatcgcc ttatagcaac cgcaggatca accgaagctg ttatcataca ccttctgaag 600
gagaagcatc atgcagcgtc tcaaaatgcg caactctggc gattggtgga taagcagcgg 660
actttgatac tcggcctgaa taaggatctt gagcgtgcct tgaaagagaa ggagcgatat 720
aagaaaaggg ccaaagagct acagaactcc ataccaccgg tgccacccac taacgatcac 780
atcgttcagt ctcgaagcgc cgatacttcg gccatccctg ccagccgcga tttatcaaag 840
caagaacagg cccagggcga atcatcagag gcgaagagca cgaatgcggg catgcaggat 900
ctctgtgaca gttccgttct ctccccgaat gcgaaagtag atcgtccgtc tcccgccgga 960
gcagactctt cgcgcctcga atacaacttt ggaaaacgaa ttttcgcgac ccggacaatt 1020
gaagagctcg atcaggaatc taaattcgca atcgctcgct taaccgcggg aagaaatgtt 1080
atcggcgagc ccaactccct gggccatccc agctccactc tgaacaagac ctcccatcgg 1140
atgaaagttc aaaaaggttc cccaaccctc cccggaagcc ccccctggcc ccctgaaaac 1200
cggaaaaaac acaaggtttg gttatggaaa accacg 1236

<210> 3140
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3140
agttctcggc ctccgcatcg ctgtcccgca tctcacggtt tctccccaat cgcagcaact 60
gaatacttca caccctctat ccagaggctg tcccgcatcg actactattt gcagctaatg 120
tacgcttcct ggtcgtctga gcagagagtt ctctatgcga ccagatcgtc cccagacata 180
ctagtcttca ccgcgggtgg aagggcagtc agtcaa 216

<210> 3141
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3141
taccagctct atgaatgcac tattttgttg actcttttct gtgtgtctgc tattgacacc 60
aagaaaggac actgtccctc atcagccgtt accgtttctc tcacctcccc ccaacaggta 120
cccgctgcgg aacagcgggt cccagtggca gaaagtcaca gaagtttggt tgttgtcaag 180
tag 183

<210> 3142
<211> 525
<212> DNA
<213> A.fumigatus

<400> 3142
ctaccgcgga ccttcgcccc cgtggtgaag accaccaatg ctcattcacc tgaagtcgct 60
cacgccttct tgaagcttga ctatctgggg attgtcatga ccattacaac cacatgtatc 120
tcagtgacct attttgcctt atacagctat cccatcttgc aggttacata tatcttcctc 180
actgtgctct gtgccgccac aatcttttgg gttgcgctag atccccggat ggatggtgca 240
cgtgctgggc catggaggtc agtatttgcc atgccacttt tggctctaca gcgtcctgac 300
tctgccaacc ttctttgtaa agcagctgtg tttttcctcc tggccacgag tggcttagct 360
cccatatttc atgtcatttg ggccgaggct tcttacggcc taattcgcat tcctctggac 420
agtcttacgg tgacctgctc gtcatatgcc gtcggcacgg cagtgtacgt cacccggttc 480
ccagaaaggt tttggccagc acgattcgat ctgattgtaa gttga 525

<210> 3143
<211> 204

<212> DNA
<213> A.fumigatus

<400> 3143
agcgccaccg cggatccttc cagccccgtg gtgaagacaa gcatccgctc tgaatttgtc 60
tattatttta aatttttag cctcttcaca aagattttag tttcggctgt tggtcagacc 120
caccggcccc tcccatcctc aacaaaatgg ctccgcccca acagtttact gagacttcct 180
ccggacgcaa cttacgaaga atga 204

<210> 3144
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3144
gtttcgtttt cctcttctag aatgaacatc tctcagtcat cattcccctt ccacttcccc 60
acatgtcaaa taacccctcc gagaaggcct aagcagccga gacctgccca gggttgtatg 120
gtcattctag cgtgcttcga gaaggatatc gggcaactca agtggtccaa tcacatcatc 180
tgggccccca cgagacgata a 201

<210> 3145
<211> 603
<212> DNA
<213> A.fumigatus

<400> 3145
gatgggcgcc cggtctacat tgagaagttg ggcaagatcg atctcaacgc catgtacaaa 60
atcacaaccg ccgagcgcat gctgcagaac ctggtgtgcg agtacgaaaa gctcgcggac 120
ccccggctgc ctgcctgctc gcgcaaggcc ggcaagttgc tcgagacctg ctgcagcatc 180
atggatctga aaggcgtcgg catcacaagc gtcccctctg tgtacggata cgtgcgtcag 240
gcttccgcca tctcgcaaaa ctattacccc gagcgcctgg gcaagctgta cctgatcaat 300
gccccctggg gtttcagcag cgtgttcaac gtcgtcaagg gattcctcga ccccgtcacc 360
gtgcagaaga tccacgtcct tgggtccaat tacaagaagg aattgttgga gcagatccct 420
gccgagaacc tccctgttga attcggcggt acctgtgagt gcgctggagg ctgtgagctc 480
agcgatatgg gtccctggca agagcccgag tgggccaagc cgccaaagtg ggctctgcct 540
aaggaggaac aggatgtcgt ggtcttcacc cggggctgga aggagccgcg ccatggcgcg 600
cct 603

<210> 3146
<211> 306
<212> DNA
<213> A.fumigatus

<400> 3146
ctttcttcgc cttgtatctt tcttaaattc gattctacca ttttaccaac catggctgct 60
gtagctgaga acaagccggc cacgacgtcg aaatatgacg actacgattt cccgaccact 120
gcgcctgagc cccagccggg ccaccctggc cacactaccc cagagcaaga tgcaaaggtt 180
gaccagctcc gtagtgagct ggagcagctg ggatacacgg acagactgga taccctgacc 240
atgctgcgct tcttgagagc ccggaagttt gatgtggctg ccgctaaggc catgtatgtt 300
tgttga 306

<210> 3147
<211> 315
<212> DNA
<213> A.fumigatus

<400> 3147
gagcccggaa gtttgatgtg gctgccgcta aggccatgta tgtttgttga ccgtcctgcc 60
ttgttgttct caagggttac ttgtctccgc cgattggagt ctgtactgtg gattctgagc 120
attgttccat tactaatgca tgaattcgtt actttaacca ggttcatcga ttgtgagaag 180
tggcggaaag aattcggcac cgacgacctc gttcgcacct tcgactacaa ggagaagccc 240
caggtcttcc agtactatcc tcaatactac cacaagacag acaaggttag ccttttttttc 300
tttcttgctg cttga 315

<210> 3148
<211> 378
<212> DNA
<213> A.fumigatus

<400> 3148
tcgtctaacc tgaatactgc cgcagcctac ctcgtgaaga gtctgcccga tgtgaagttc 60
gacattggtg agatgtactc cggctcagtc cctatcgaca agggcaacaa atccagagag 120
cttttcttca tcttccagcc caccatcggt gaacctgtgg acgaagttac catctggctc 180
aacggaggac caggttgcag ctccttggaa ggattcttcc aagagaacgg cagattcacc 240
tggcagccgg gaacattagc cccagttgag aatccttact catgggtcaa cctgacgaac 300
atgttgtggt atgtgttacc tttccaggcc gttattcaag agattacatg tccgatatct 360
gatgcgcatc gactgtga 378

<210> 3149
<211> 285
<212> DNA
<213> A.fumigatus

<400> 3149
cgaacatgtt gtggtatgtg ttacctttcc aggccgttat tcaagagatt acatgtccga 60
tatctgatgc gcatcgactg tgacagggtc aatcagcctg tcgggcacgg cttcgccacc 120
ggcaagccga acgcaacttc gcaggaagag atcgcggaag actttatcaa gttcttcaag 180
aacttccaag agattttggt atcaaaaact ataaaatcta tgttcacggc gagagttacc 240
caggccgcta tgttccttaa atcttcggcg caatgctggg acaga 285

<210> 3150
<211> 315
<212> DNA
<213> A.fumigatus

<400> 3150
tcttcacccg tacctgcaag cctcagtttc ccgtctttga tttccccttt gccttgcccg 60
gtcgagatgt tgttcggctc ggtggcttcg accgccctcc tggcgctctc tttgtgcctg 120
gacagcgcgt ctgctgcaaa acatggtcgg ttcggccaga aggctcgtga ctcgttggcc 180
aaacgaagct cgtcatcgtt ggttacccat gagccagaga cgcgctcacg ccacaaggac 240
ttccgattcc tgaacaagga tacaaagcgt atgtatattt ttgtgttacc tgcgttggaa 300
ttgatgatcg tctaa 315

<210> 3151
<211> 570
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (395)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3151
agtacccgag cattcttcat ctgtaaactt gaatcaaccg acatcaacac catgagagca 60
aattggcgaa ccacacgtct cctccatggc gtccgagcca tcatcggcgg tcaaggtcct 120
cctttggttc tcattccaga ctggccgcaa acagctgagg cgttcagtgg tatcttcgag 180
ccccttcca aacgttatcg atttttggcg ctcgatcccc cgggcttggg tgattcgcct 240
cctccactta atggctatga cactgggaac gtgagcaaag tcatggtcga agctattcat 300
gataccctga aatacagacc gtaccatcta gttggtcatg atgtgggtgg atggattgcc 360
tatccttggg ccgctcagtt tcgatcgaga gtcanatcac ttagtatcct ggacgcgtca 420
gtgccgggtt tccagcctca gcttcagttt ccgttgcctc atccgaccaa actgcgtctt 480
tggcaattct cattcaacgc ccttcctgaa ttacctgaaa ttctgactcc acgtcggaac 540
cgggagcttc tgacctgttt ctttatctaa 570

<210> 3152
<211> 402
<212> DNA
<213> A.fumigatus

<400> 3152
atttttctta gcgcgccgtg ggttccgtca gctcaccctt ccatcttcac tcaatgcttt 60
gctatggcgt tcaacttcaa ctggtcgccg cttatggcgg acgcgagttt ctacactcgt 120
gcgcaagatt tattaacggc tgcgctcaat aagtcgccga aaccgcccat catcgtcgac 180
gatattatcg taacggaact caaccttggt tccattcccc cggagctgga gatcttggag 240
attggagacc tggcggagga ccggtttcga ggcatcttta agatgtccta ttcgggagac 300
gcatttctga ctctcaaaac acgagtccaa gcgaatccgt tgaacacata tcttctcaca 360
cgaccgtcct ttgcaacacc ccgacctctg gctgcagcgt aa 402

<210> 3153
<211> 1170
<212> DNA
<213> A.fumigatus

<400> 3153
caatacctct ccaaatcact ctttccgatt tcaaattatc cggctttgtc atccttggtc 60
ttctcgaaac aaaaaggaat cactgtggtt ttccgaaacg atccgcttga atcactcaag 120
gtctcttcaa ctttcgactc tatcccgttt gtgcgtgatt tcttacaaaa ggaaattgaa 180
gcgcagcttc ggatcctctt tatggatgag ttgcccgcca tcatacatcg attgtcgctc 240
cgattgtggg tccccgagta ccgagctgga gaggagttgc agactcaaac ggcaagcgca 300
aatggtgaag gacctggtca agaccctctg gccagcccgc cacaagatcc cgtcgacgct 360
ctcggaaatg ctttgaacga gtcagaaatc gaatctcttt ccttggattc gtctgttgaa 420
acccatacac tgttttctca gaaaaacctt ctgcgtttgg ctgcccttac ggactctcaa 480
cggacattat cactcttcac cccttccatt agggaggtag tttaccgcgc atggacctcg 540
ccttcagatc agaccgatgc ctccggaagc gtgacgtcac ccttctttcc cgtcctttcc 600
agaacactgt cccaggttgg cagtatgtcg tccttcccag attcggccag catggtttcg 660
agccagagtc ggtcttcgac accttcccac acctttagcg gatatggctt gagtctaggg 720
gctgaccgtc attcgaaggc tcatgctcga aagcgaaaga agcgcgttgt ggatatgcgt 780
cgcccaaaga ccactgacga cgcaccaagc gtgagcgatg agagttcgtt taccgagtcg 840
accagcgctc cctccatctg ttcagcccct ctgccagtcc tagatgaaca gaccgatgat 900
ccggtgacgc cgcccttgtc cccggataat gatctacacc tccctgcaat ccccgaacga 960
caccgtatga gtatctctcg acctgcgctc cgccgtgaga atgcatcgga gatgattcgc 1020
gataccgccg aatgtaaacc atcgtccaat gcggtcggac aggccattca ggaggaggac 1080
ctgagcgcca ctccgcgtgc cgctgtgcgc gcccatggtg cgtctgttct tgaaaaggga 1140
aaacaggacc ctgattcgtc ggcagggtag 1170

<210> 3154
<211> 741

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (624),(680),(699)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3154
gcaagcctga ttcacggcgg agcctggaga gacccaacac aaacagccgc ctcatacgtc 60
gcgccggccg agtctatcct caccacttcc ccaacataca cctctacgac ccttccgcac 120
atcgcggcct tcgcatcgat cgagtaccga ttgagtgccc atccgagtta cccacagaat 180
cccgatcatc tcgattctac tgaataccgc aatgccaaac atcccgacca tatccgcgat 240
gtgcaagcag ccctggctct tctgcagcgt aagtatgggt tcgggagtaa gtatatcctc 300
gtcgggcaca gcgctggggc gactttggcc tttcaatcgg tgatggggac tttccgagac 360
agcgctgctg ctgtcgcttc tcctccagtc gcgatactcg ggatggcggg tatttatgat 420
ttacgacttc tgcgtgatac ccatcgggat atttctgcct atcaagagtt tattgaaggg 480
gccttcggtt ctgacgaagc ggtgtgggat gccgcttccc ctgcctttgt aaagggctct 540
cagggagttg agggtggatg gacgtctggt cgactggctg tgctggcgca ctcggccgaa 600
gatgggcttg tggacgctgc ccancaaaag gcgatgcaag ctgcgctaag tcgctgggag 660
gacaacacac cgcaaggtan tggccagaga cgagttgana tgctctctct caaagacgac 720
catgatgacg cgtggatgta a 741

<210> 3155
<211> 1164
<212> DNA
<213> A.fumigatus

<400> 3155
agacacgcga agattgacgt cacaagttcg ttgggcctca tcagagtaac tgggactgag 60
cacacatgtg aatcgattcg cgagattata tacgatgcaa cgaacagaat ccgacaggaa 120
gatgtcgatc tacctacgcc aaatcatgcc acgtccaaga gtggtcgtac tcttactcct 180
gattttcttg catgggtcag caagacctat ggagttgcat tcgagcagaa tccgtcgcag 240
ggcgttatta agatgttcta tcttgcggag aacagagaag atgcggacaa tgctcggaga 300
acactaaacc tagcgattta caacacaatt tctcctgcga taccctttgg cacttactta 360
tccgcggctc agtcggctag tgtctacaat gtagacccag agcaaaacgt cctgtggttc 420
gatcggcaaa aggtgtggtt tcggtgggca atgtcgtcta cccaatcctc tgagacgaag 480
atcctggaca ccccgtattt cgataagcat caatcgcttt tgtcggacga gcttctcaaa 540
ttgctcagaa agtcgtcgcc atcgtcagaa tgccatggta tcagtgagac cgtgatagcc 600
gccattgggc agtgtttgtt cttacgcaag ccttccttcg agatccagac tctcagcgct 660
cctcagctgg gcaaattgaa tcttcctcga actttcacta cggatgttcc tcgagtaacg 720
tcgtttctcc gtacgctcaa gccacgtctg cttgatgatg accaacagtg ttacattttc 780
cagttgatcc caacccctgc ccatgcaaat atctttccgc gactggaagt agaggtaact 840
ctgccaggat tacacccatc atctgtctct gatgcccaaa ttgagattcg tagcgtgaaa 900
gctgagttgg ctgagagcag tgttgactat ctgctccccg agaatggcct tgaccttcgg 960
tttaccagaa agttgcaccg cgatttactg catggacatt ctgagaatga gtcagccgcg 1020
aacgttacgg tggaaagcct ccgggaatac ctgcagggcg tcttttctag gtatatgaac 1080
aacgaaggtg aagcgcctct gcctgcgttt actcatgttc cgcttcccaa caatctgttg 1140
aagggaactt tcagcagaaa acca 1164

<210> 3156
<211> 459
<212> DNA
<213> A.fumigatus

<400> 3156

gtggtgggag cttcggacga gtttacaaag ggtatgctgc tgtgcccagt gttctacctg 60
atcattgaat tagctgacta tgttcgtctt ttgcaattta gggtcgataa acgcaccggt 120
aattctgtcg ctatcaaggt cattgatgtc gaaaatgccg aagatgaagt cgaagatatt 180
atccaggaaa ttgccatctt gtccgaactc gactctccat atgttacgaa gtatcatggc 240
tcttttctca agggttctca tctgtggata gtcatggaat tttgttcagg gggtagttgc 300
agcgatcttc ttcgcccggg gccaatccca gaggactata tcatgataat catgcgagag 360
ttgcttcgtg gcctggatta tctgcatact gataagaaat tgcaccgcga cgtcaaaggt 420
acattgcgat cttcatttga gactcaattg ggaagctga 459

<210> 3157
<211> 720
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (618),(683)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3157
caaattcgga cagctgcaaa tatccttctc acttccaatg gccaggtgaa gctcgcggat 60
tttggtgttt ctagccagct ctcagcaact atgacaaaga agaacacctt cgtggggacc 120
cctttctgga tggctccaga ggtcatcaaa cagtcagggt atgattataa agcagatatt 180
tggtctctcg gaatcactgc catagagttg gcgcagggag aaccacccta ctccgatatc 240
catccgatga aggtcttgtt cttgattcct aagaatcctc cccccacgct tcagggacct 300
ttcagcaaaa cgttcaaaaa ctttgtcgag ctctgtttgc ggcgcgaccc cagggaaagg 360
ccgtcggcca aggagttact cgagcacccc tttgtcaagc gagcaagacg gacgacttat 420
ctgacagagt tgatagagcg ctatgaagga tggcagatac gtaatggcgt tcaaaatggc 480
ggcgtggatg aggactgcgt acaagatctc ccgtcgaatg acaaagatcg cgaacatgag 540
gaagacctct gggactttgg cactgtgcgc cctgtaggac gcacaacagc tatgggtccg 600
atgaaggagg ccgatacnaa taccaggaac cacaatacca cggcctggaa tttccaagac 660
aagtcacacg aagaagtcat ganatcaagc cgtcctcaac ccgactatcc aaagaaatag 720

<210> 3158
<211> 198
<212> DNA
<213> A.fumigatus

<400> 3158
tcatcagtat gttatgctgg atgtgattcc aaaatgccaa taagcagatg caaggtccag 60
atcaatattg gccacgtgac tgataagatc caaaagataa aattaaaaag tatgaatcac 120
atccccacca acaccaacag acctcaatcg cgagataccg atgtctcaca tcctataatt 180
agacggcaga ccgcttag 198

<210> 3159
<211> 717
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (631),(681)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3159
catacacctg tggcatctgt cctctcgccc atggactcca tgaccgactc ctccaattcg 60

ctccgcagca gcgaccttcc agaaatgttt cgaccacccg tgaaccgcgc gatgcgtgtt 120
ttggaccgct cgttctttcg caagacggtt cctctgtccg ctgctgcggt cttccaaaac 180
tcagacattt caaaggtgcg agcggaactg cacaagagcc gggacctgct ggctgtgcct 240
cggctcaact gtatccggga cgtggcagac caggaggggc agataaagaa ggctttactg 300
ctgcgcgaga ctgtcaagca tgacgataag gaaacgtggt cgcccaagat aagcgagctg 360
gtcgagaagg gacgcatcgc aatgcggccg tacgacttga cgctggacta tgatttttgg 420
acgtacgccg acattatctc ctcgattcta cccgaggacg agctacaaga gattccgcag 480
gggtttactc aagtgggaca cgtgctgcat ttgaatcttc gcgaacaata cctcccatac 540
aagtatctca ttgctgagat cttgaggaac aagtacaggg tgattagaac gtggattaac 600
aaaaccggag atgttggatc acatagcgag ntccgcacat tccctttga gtttctgggg 660
ggtgataatg atttgaatgt ngtcccagca cgagcaggat tgcgagttcc gctttga 717

<210> 3160
<211> 738
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (5),(733)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3160
atgtngtccc agcacgagca ggattgcgag ttccgctttg actattcccg cgtgtactgg 60
aacagtcgtc tggagacgga gcatcgtcga cttgtggaga aattcaacaa gggcgagatg 120
gtttgtgatg tcatggctgg tgtgggacca tttgctgtac ctgctggcaa gaagaagatt 180
tttgtttggg ccaacgacct caatccacac gggtacgagg tgatgcagga cgccatcaaa 240
aggaacaagg tggagggctt cgttaccccg ttcaacatgg acggccggga atttatccgc 300
tggtctgcca aggaactttt ggagaccgag ccggtgaccg tcaccattca tcccaaggtg 360
cggcgggaca gaaaatccgg caataaagtc gagcaggccc ccccgcctca tccggaggag 420
tatcaccgtc cagtgttctt cgaccactac gtgatgaatc tcccggccac ggcaatcgag 480
ttcctcgacg cgttcccagg catttacgcc ggcaaggagt cgctgtttgc gccgcacacc 540
tcccagcgtc tacccatggt ccatgtgtat tgcttctcgg gccattccga gaacgagctg 600
gacgaccaca ttgacatctg ccagcggata tccgagcgta tcgggtacac tatcacgccc 660
gaggatcgga tcggaggcag tgggaatcag agcgttgagc gtatatcacg accgggatgg 720
gacgtacgcg tcnggcaa 738

<210> 3161
<211> 666
<212> DNA
<213> A.fumigatus

<400> 3161
attctcatcg agataagcag gatggccact ggtacttccg ccaatcgttg tgaggttcgc 60
gcttgtcaac gatgtcggaa gttgaaagtc ggctgtgata aggcgaaacc agcatgccgc 120
cggtgcatca aggccggtat gcgttgcgtg gtgccccacg ctgggagcaa caaggccgac 180
agggcatcta caaattgtga caagagtatt ctgacggacg gcctggatga ttctctgcgg 240
aacagggatg aggtacgttt ggcccgatgt cactgctgcc ctccactcac agctgtacag 300
ctcaccggca gctccatatc cgacaaaaat gggccctttc attccccatc gagctaccac 360
aaattaacac ctcacaagcg caatcgcaat cctgtgtctt gtatccgttg tcgccgatta 420
aaagtccgat gtgatcgaca gcagccatgc cacagttgca caaaggcaaa agcagtctgt 480
gcatatggcc ggtcaagcgg aattcaccgt gattctgatg gagaatcttt tgcggacgac 540
tcgagtgctg ccgttcgctt tgctgcgtgg agtgaccggt tccggacaga cactcactgg 600
ataaccctcg tcagggaggt gtgtcctgta gttcatcctt caatgggatc cagcgaacat 660
tgctga 666

<210> 3162
<211> 261
<212> DNA
<213> A.fumigatus

<400> 3162
ggacactcac gacgtcctgc tggcggagag aagaagagtc gaggcttcgg tcggtccaaa 60
gctgtggctg atgtgggtga tgggcgacaa acgggggca agcctcaggt gaagaaggcc 120
actttcgaga gcacaaagaa gaaggaaatc ggggtttcag atcttacgtt gttgagcaaa 180
atctcgaacg aggccatcaa tgacaacctg aagctgcgct ttgaacatga cgagatctat 240
gtaagcattc attccccctg a 261

<210> 3163
<211> 420
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (74),(133),(134),(196)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3163
ctagcggacc tcgagatttt tgcgctactg agggcgtgcg ctgatataga ttcttcggat 60
gatagacata tatncgccac gtgttggtgt ccgtcaaccc tttccgagac cgtgagttta 120
taccgagcca tgnngtgtcg tcaaaggcgc gtcgctgaca tcgttgcttc gcagtgggta 180
tctacaccga caatgntctc cagtcttatc gaggcaaaaa tcgactcgaa gtgccccccc 240
cacgtcttcg cggtcgcaga atcagcctac tacaacatga aaacttacaa ggataaccca 300
tgcctgaata acttaagaga agtcggtggc aggaaaaaac cgaaacttcc aaaccggatt 360
attgcaatac cttggccgag ggattttgga ggcactgatt tgtcctatcc cgcttacccg 420

<210> 3164
<211> 366
<212> DNA
<213> A.fumigatus

<400> 3164
gaaggcgacg ccgcggtgtc aggcagcggt gatctggcct ttgatgttgc actcggtgct 60
gacctggtaa gtccacacat gattattcaa aatcatttcc tggggttcgt ggctgcggat 120
ctatgcctcg ccatttacaa tgcacagaat atacattatg caagaaatcg tgcaacaaac 180
ctggctaatg gaaagaagat ttacgacgtc gaccttgtcc ccctcctgct gtccaccttc 240
cgcgacctct tcgaaaacta tcacctccga gaattcatta tcgccgcgac gctccggaac 300
caggatacct tccagacgtt cctaaaggcc tgtcgtgagt gccttgcctc gatccaatcc 360
aactga 366

<210> 3165
<211> 297
<212> DNA
<213> A.fumigatus

<400> 3165
agacccaagt ggctggcggc gtggttgaat gcggacgata tcgagcaggc gccgccgttc 60
tcgttccgca acatgggcac tttggcgtat attggcgacg cgagggcgct gatgcagctg 120
ccgcatgagg acggcaggcg atacaagtat ctcccgcatg gattgacggg gcgcatggcg 180
tggctggtgt ggaactcagc gtatctgacg atgagtatca gctggcggaa tcggctgcgg 240
gtggcgtttc ggtggttgtt gaacaatttg tttggacggg atgtatctag atattga 297

<210> 3166
<211> 378
<212> DNA
<213> A.fumigatus

<400> 3166
cttagacagg agaaaatggc ctacacaacc gtctcccagc gtaaactggc cgaattggac 60
gccaaaatcc ccgccgaatg gagactatcc gcgtctcaga tcccaccggg gatgctgtcg 120
cccgccgaat ccatcaccaa cgtcaagcag tacggccgag tcaacgtgat ggacatccct 180
cgaacctgtg gcttgctctc tgctcgcgag ctccaaatca cagaagacta tgacgtccgc 240
ggattgttac gcgccatggc cgacaaccac ctcacagccg aggaggtcac cactgctttc 300
tgcaaggtcc gctgtccctc cccctcattt ctttttttct ttttttttct ttttttttta 360
caagcgaaga agcgctaa 378

<210> 3167
<211> 561
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (407)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3167
cgtagtctag agagcagcca tcgcgcacca actgacccgc tgcctaaccg aaccgctgtt 60
cgaccgcgcc gtccagcgcg cgcgcgagct cgacgcctac ctgcaccgca ccggccgccc 120
catcgggccc ttgcacgggc tccccgtctc cgtcaaggac tgcttccaca tcaaagatgt 180
cgactccagc atcgggatcg ccgccctcgt cgcccgcccg gcgaacgaag aagccccctt 240
gaatcaactc ctcaccgccc tggggcgcat cgtcctgacc aaaaacaacg tcccccagac 300
caatgggcgc ctcgacagcg ccaaattcgt cttccggcgg acgctgaaac cggtcaaacg 360
cgccctcacg gtgggggctc cccccgccgc caagggattc ttggccncct gccccggttc 420
ttggtggggt tccggcccga atttcgccgg gaactccccg ggttcccggc aagtttttgg 480
gtgttttttg gttcccaccc aaaccttggg gggcgtttcc cctttggcgg ccaggaaggc 540
cggcccaatt ccctggttta a 561

<210> 3168
<211> 558
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (397)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3168
agagcagcca tcgcgcacca actgacccgc tgcctaaccg aaccgctgtt cgaccgcgcc 60
gtccagcgcg cgcgcgagct cgacgcctac ctgcaccgca ccggccgccc catcgggccc 120
ttgcacgggc tccccgtctc cgtcaaggac tgcttccaca tcaaagatgt cgactccagc 180
atcgggatcg ccgccctcgt cgcccgcccg gcgaacgaag aagccccctt gaatcaactc 240
ctcaccgccc tggggcgcat cgtcctgacc aaaaacaacg tcccccagac caatgggcgc 300
ctcgacagcg ccaaattcgt cttccggcgg acgctgaaac cggtcaaacg cgccctcacg 360
gtgggggctc cccccgccgc caagggattc ttggccncct gccccggttc ttggtggggt 420
tccggcccga atttcgccgg gaactccccg ggttcccggc aagtttttgg gtgttttttg 480

gttcccaccc aaaccttggg gggcgtttcc cctttggcgg ccaggaaggc cggcccaatt 540
ccctggttta aaggggggg 558

<210> 3169
<211> 714
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (156)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3169
gagctgacaa atgatttccg gttcaagact acactcggaa tccccattct aatcttcatc 60
ctccacattt taaaccgcct agcggcatat actccccttg cgaatccccc ggaatcgata 120
gagtctggaa actatggcgc gccaccacgg gccgcntggt ggttcaagca ggctatgata 180
tacttcttcg ggcttttggg aatgaaaata tgcgtcttct ttctcatcca actactgcca 240
ttcatagtca agataggtga ctgggctctg cgctggacgg aagggaacac agctctgcag 300
atcatcttcg tcatgctgct tttcccagtg atcatgaacg cgatccagta ctacatcatc 360
gatactttca tcaaaagacc gctatctcga actcacgagc tgctccagga agacgatgaa 420
gtagaagatg ctttgttgga tgacggtcgg acaccgcaca atgcactgct gtctagcgct 480
gaggatgctg atacatttgg gccggatgaa ggtattatag gaaaggattt gggcaaaact 540
cttgaaccgc ctgcagggcc gaacggcttt cgtcatgtcg agtacgatcc agcagttgat 600
ggagagtatt tctccccggc gtcatcaacg tctgccagct ccagcagcag tcatggcgaa 660
tatgatgcaa tgtcatcttc gacaaagctt acacctcaga acaagagacc atga 714

<210> 3170
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (71)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3170
gaattctctc attccaccga gcgggaagat gccaaaaacc cccctccctg ttcctggaaa 60
aaaaccgccc naaaaacggg gcctcccccc cctcccgtcc aagaatggag ctcccctccc 120
accctgttga acaaaaccaa ccctcccaag ttgaattgga ggctgaacgc gtttgaaaca 180
aaaaaaatcc ccacaaagga tcatgtggaa taccaaactc ggagaaaaag cccttcccgt 240
gaataa 246

<210> 3171
<211> 585
<212> DNA
<213> A.fumigatus

<400> 3171
tttgacatga gctgctcctt ccagccccgc ggtgaagaca ccttcatcat tattcatgga 60
ccccgtggct cgggaaagcg ggagcttgta ttagatcggg ccctggtcga ttacaaatat 120
aagatagtaa tcgactgtaa acaaatccaa gacgcgcggg gagacagtgc gaaaattgct 180
agggcagcca gtcaggtagg ctaccggccg gttttctcat ggatgaacag catcagcagt 240
tttatcgatc tcgcagcaca gggcatgatt gggaccaagg cagggttctc agagactttg 300
gacgcccagc taagcaacat ctggcaaaac acggctaccg ctttgaagaa agtgaccttg 360

gagcacagga agaagaatga caacgactcg catctgaccg acgaagagta tcttgaggct 420
catcccgagc ttcgcccagt ggtggtaatt gacaactacc tgcacaatgc gtccgagagc 480
agcgttgtgt acgacaaaat caccgagtgg gccgctggcc taacagccgg aaacattgcc 540
catgtcatat tcctcacgac gatgtctcgt acgccaaacc tttga 585

<210> 3172
<211> 666
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (74)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3172
cagatctcga attcatggcg caccgtattg aggcggagag acaccgcgaa gtacgtcgag 60
agcaagacac tagntcacgt ctatgctaga atactaacat acgctcaagg cgcgggtcaa 120
cgtattatcg aacaatcggc atctgagatt ctcaagatgt tccttttgac gccggaaact 180
atagagcagt cgtggaccca cgaacaggct tggtatctga tcaaaaggct tgcagagtcc 240
aaagatggtt ctctgtcata caatgaaatt gttctctccg agctcttcaa agagaatgga 300
gagatcaccc ttcgcgctct tgagcacgcc gaactcattt caatcgccgc cgtcaacggc 360
tgcccccaga gaattcggcc tggaaaacca gtcctgcgcg ctgttttcaa gaaggtcacc 420
gagaataaag cattgagcag tcgcatggat ctcgcgatca tagcaaagaa gatcaacaaa 480
gagaataaga gcatcgaaaa atatgaggaa gaacttagct tattgggctc tctgcctagg 540
cagccacggg aactgacaga ccgaatccaa tggttgctta acaaagtata cagttctcaa 600
aacaagattg cgaaatatga gaaggaaagt gcatacctac agaagattct ccgaagcgaa 660
cattga 666

<210> 3173
<211> 915
<212> DNA
<213> A.fumigatus

<400> 3173
actcgacagg tttcttggat cggcacaccc gttatcgaga cacggctggc agtgtgctat 60
gccctgaacg atcccatgga aatttctcac tctctcgtgg cccatgccac aaccctcgcc 120
gtccggtccg gcgcttccag ttccaccagc gaacggcccc ccgcatacaa agccgtcggc 180
attgcgctgg ccgtctcgtc gggtgtcttc atcgggacct cgttcgtgct gaagaagacc 240
ggtctcctca aggcgaacgt caaatacaat gaagaagcgg gcgaggggta cggatacctc 300
aagaacgtct ggtggtggtc cgggatgatc ctcatgattg tcggagagat ctgcaatttc 360
gttgcgtatg cgtttgtcga tgcgattttg gtcacgccgc tgggggcgct ctcggtggtg 420
atcaccacca ttctctcggc gatctttctg aaagagcggc tgagtttcgt gggcaaggtc 480
ggctgtttct cgtgtattat cggatcggtc gtgattgctc tcaacgcccc ggagcaatcg 540
tccgtcgggg atatccaaga tatgaagcat tatgtcatcg cgccggggtt cctggcgtat 600
gcgggtgtca tcatcgtggg ctgtgcgatt gttgcgctct ggctggggcc gcggtacggc 660
aagaagtcca tgttcgtcta catcagtatc tgcagtttga tcgggggggtt gagcgtggtg 720
gccacgcagg gacttggggc ggccattctg gctcagatca atgggaaatc gcagtttaag 780
gagtggtttc tctacgtgct gcttgtgttt gtcattgcaa ccttactgac ggagattatc 840
tacctcaatg taatgtcttc tgtgcctggg ttgcaggaac gtgtgctaac cgcggaccac 900
cacagaaagc gttga 915

<210> 3174
<211> 714
<212> DNA
<213> A.fumigatus

<400> 3174
atacatccac gtccgacgat ggcaggacgg cagtcttcta gggaaaatgc ccgtgaacaa 60
gacctatggc cagcaagtag ttgtccaccg tgcagacctt cacaatgcac tgatcgaaaa 120
ggccatggcg ctggagaacg tccaagtacg agtcaactcg accgtcactc gggtccagtt 180
cgaccctcca gccgtgaccc tcgccgacgg caccatggtg caagccgacg tagtcctcgc 240
agcagacgga atcaaatcca gcattcggga ccagttgcta ggcaaggacg ccaccaaggc 300
cattcccacc ggagacgcag catacaggat catgctcccc cgatgcgcaa tggagaacga 360
tccggagctg aagcagctca tcgacgagcc gcaagccacg cgctggatcg gaccctaccg 420
ccatatcatc gcctacccgg tccgcaacca ccagctatac aacatcgtcc tgctccaccc 480
ggaccgcacc gacgtcgaag agtcatggac aaccaggggc tcgaagcaga tgatggtcga 540
cgactatcgc ggctgggacc gacgagtcac gaagctcatc gacctggtca aggacaacga 600
agtcctggag tggaagctct gccagcaccc gcctctaaag acgtggatca ggggccgcgt 660
ggctttgctc ggcgatgcct gccatccaat gctgtaagcg atcgcgacca ttag 714

<210> 3175
<211> 696
<212> DNA
<213> A.fumigatus

<400> 3175
tacatccacg tccgacgatg gcaggacggc agtcttctag ggaaaatgcc cgtgaacaag 60
acctatggcc agcaagtagt tgtccaccgt gcagaccttc acaatgcact gatcgaaaag 120
gccatggcgc tggagaacgt ccaagtacga gtcaactcga ccgtcactcg ggtccagttc 180
gaccctccag ccgtgaccct cgccgacggc accatggtgc aagccgacgt agtcctcgca 240
gcagacggaa tcaaatccag cattcgggac cagttgctag gcaaggacgc caccaaggcc 300
attcccaccg gagacgcagc atacaggatc atgctccccc gatgcgcaat ggagaacgat 360
ccggagctga agcagctcat cgacgagccg caagccacgc gctggatcgg accctaccgc 420
catatcatcg cctacccggt ccgcaaccac cagctataca acatcgtcct gctccacccg 480
gaccgcaccg acgtcgaaga gtcatggaca accaggggct cgaagcagat gatggtcgac 540
gactatcgcg gctgggaccg acgagtcacg aagctcatcg acctggtcaa ggacaacgaa 600
gtcctggagt ggaagctctg ccagcacccg cctctaaaga cgtggatcag gggccgcgtg 660
gctttgctcg gcgatgcctg ccatccaatg ctgtaa 696

<210> 3176
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3176
gcgatcgcga ccattagcat gatatctgat catctctcta acgattgcag tccatacgtc 60
ggccaaggtg ccgcccaggc cgtggaagac gccgccgccc tcggcgtcct cctatcctcc 120
atctcttctc ggagcgaaat ccccccttgcc ctagcctcct acgaaaagtc gcgcaaacac 180
cgcgcatag 189

<210> 3177
<211> 210
<212> DNA
<213> A.fumigatus

<400> 3177
acagtccagc aatccgggac cgtcaaccgc gcgacgctgc atctccccga cgggccggaa 60
cagcaagccc gcgacgacca gttccgcgct tcgatgaacg gggcgtcgaa ccccgataaa 120
tgggctgatc tggagacaca gaagttcctc tggggctggg atgcggagaa agcggctctg 180
gagacctggg aaggtgaatt acccttttga 210

<210> 3178
<211> 231
<212> DNA
<213> A.fumigatus

<400> 3178
tcttctttat atcagtgtgc ggagcttgct actgaatggt gcggctccgg ccagctttcc 60
aagatgcagt cctccccaaa catgcttacc aaggtacgtt gctccccctc tgttaccccct 120
tatccccgcg caaaccaagc cactcaacta aacaattgct ttatgaatag ttcgagtcga 180
agtcgtctcg tgcgaaggga attgcctttc accctaaacg gtcagtcctg a 231

<210> 3179
<211> 363
<212> DNA
<213> A.fumigatus

<400> 3179
ccctggaaca gaccatggat ccttgtttca ctccactcgt cgacaattca gttatgggat 60
tatcgcatgg gaacgctgat tgatcgcttt gaagagcacg atggacctgt tcgcggcatc 120
gacttccacc cgacacaacc tctcttcgtc tctggaggcg acgactacaa gattaaggtc 180
tggagtcttc aaacccggag atgtcttttc accttgaacg ggcatctcga ctacgtgcgc 240
acggtattct tccatcgaga acttccttgg atcctctctg cctccgacga tcaaacaata 300
agaatttgga attggcagaa cagatcgttg agtaagtgga ctccggtctc accacggggc 360
tga 363

<210> 3180
<211> 234
<212> DNA
<213> A.fumigatus

<400> 3180
gttttgctaa ttgtgcctcg tcaaaaaggc cgttcctggt ctatccaaga acttcgggaa 60
aaatcgtggg aagaccttca ctgtctctgg tgggtctgtg tcaaggagcg taatcgcata 120
gctacgtcca acctcgagag acaacgcttg aaggcaggct acggagaatg ggaagctagg 180
gaaagagata gaaccgtgag tttctcattt ctttccgagc tcagaccttc gtag 234

<210> 3181
<211> 834
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (47),(324)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3181
acgaaaggca acacaagctc tctgacgaat caggtagagg tcatganaca gacatgttct 60
gatgttactg cccttacttc gttctcggag aatcatgacg tcgctcgatt tgcaagcttc 120
aaggatgaca tcgcggtaag gcagcgaact ccagttaccc tgaaagtatc aaccgatgat 180
aggctaacac cggcgcagct cgctaagaac gttttaacat ttacgatgct gttcgacggc 240
ataccgatga tataccaagg gcaagaacaa catttctcag gcgccagtga cccggagaac 300
cgcgaagcct tatggctatc aggntacaac accaacgctc cgctttacca actagccacg 360
agactgaaca ggatccgcaa gcatgcagcc cagatcgacc cagcatttgt agactcacag 420
accttcccca tctacacagg gtctagcgag atgggtttcc gcaaaggcgt cgagggccgg 480
caactcgtaa tggtcttgtc aactcaaggt atggacagcg gcaaatatga gctggacatg 540

ccaataggct accaacctgg atttgtggtc acagatgtgc ttaattgcgc caactattcg 600
gttaacgaca tgggtcttct caaggtcagc atggataagg gcgagcctcg ggtccttttt 660
cccgctgaca tgatggaagg aagtggtcta tgcggatatg gaaggtcgaa tggaacgacg 720
tatcttaatc tgaaaaagaa ttcaacgcag ttctcgggtg gcgggctctc aaatcggcct 780
accgtgcccc tactgttgat ctgttgtttg acttgcttga tactatggtg ttga 834

<210> 3182
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3182
acaagtcatc aacatttgtc atgtgaaggg ttcttccccc ttttttttctg cacggtgaac 60
cacactgatc gaaaaattga attgaaaagc tttcttctat tgctgctgcc gtcaaaatgg 120
catattaatg tgcttgagga ctctaccttc aaagtcactc gcgtcctccg caaggcgcca 180
gtagacgatg tcataccaga caaatga 207

<210> 3183
<211> 585
<212> DNA
<213> A.fumigatus

<400> 3183
cagggcgcca ccgcggtgct ggaattctct gccatcgatt ctccattcgc tcaacctcga 60
aatgtgatcg tcggtcagct ggcagcgagc atcattggtg tagcgatcgg gaagctcttt 120
gctttgaatc cccatgccca ttcgttaccc caagtcggcg gagctcttgc ttgtgctatc 180
actatcgcct tcatggccat cacgaataca acgcatccgc ctgccggcgc cacagctctg 240
ttagctgtca cggaggtctt tgaactgggc tggtacctgg ttccggtggt gctgctgggg 300
tgtgcgctga ttctctgtgt ggcattattg attaacaaca tccaacgacg gttccccgtc 360
tactggtgga ctccgcatag ccttgcacgt ccgaaactcg aggatgttga aagcatcggg 420
catgagaaag tatccagcgt caaaccaact gaatctgagg acagtgtcac ggatgaacct 480
gaggaaataa tcattcggcg tggcgaagta ttgatgcctg acaacctctg gatcagtgca 540
gaagaacggg aggtgttgga gagggtcagt caacgaatac aatag 585

<210> 3184
<211> 219
<212> DNA
<213> A.fumigatus

<400> 3184
ccaatgaaga tccgccccac tgaacgaatt ttcgaaggac ggccacaagg tatcttgaaa 60
gacttcttta tcccttccaa catcttcttg ggcctaggtc accacagttt gttgccatca 120
ggccacttgt tcattgagac tagcttctcc gtactgtata accttctact tgccgtcgaa 180
tctaacccag ttcgatcttc gagtcccact accgagtaa 219

<210> 3185
<211> 816
<212> DNA
<213> A.fumigatus

<400> 3185
aaggcttttg gtcgcccctc tctacctatt ttctccttcc tccccgctat cgatccactt 60
tcgtcgacct ttttttttcat ctgcgttcac gaccctaggc agacttttga gcttttacct 120
ggcctctcct tttacctgcc accctaccac cttccctccc ccatacatac cgccaaaatg 180
gtgtctgctt ccaaagccgc tcgtctcgcc aagcgtgccg ccgagggcga taagaagaag 240
accgccaagt caaagaagga cgtcaagggt gacgagagcc ctttggttga cgctgatggc 300

gaacctcgcc ctaccgaaga ccagcccgct accaccgagg agaagatgaa ggaagtcgag 360
aagctcaccg cacagatgga taagcacggt ctgtccgacc gtgtcaccac cggtgttctg 420
tcctcgatgg cttcctctcg cgacgtcaag atcacctccg cttccctcgt gtttcacggc 480
aaggtcctca tcactgactc cactctcgaa cttaacttcg gtcgtcgtta cggtctgctc 540
ggtgagaacg gatgtggaaa gtccactctt ctcaaggcta tcgccactcg cgagtacccc 600
atccctgagc acatcgatat ctaccttctg aatgagggtg ctcctcccag cgaccttggt 660
gctcttgaat gggtcgtgac tgaggcgcag aaccaactgg aacgcatgga gaagcaggct 720
gaggagattc tggaaaagga tggtccggag agccctatcc tggaagacct gtatgacggt 780
cttcaccacg gggatagcgc atccgcgcta gataat 816

<210> 3186
<211> 1191
<212> DNA
<213> A.fumigatus

<400> 3186
aggtccaagc ggggggaaaa aggggccaa tggtggggaa aagtggaaaa attagggacc 60
cagcaattgg gttggtggcg tcttaggcct tggggtccgt ggacttttcc acaggggca 120
gctaaatgcg cagtcgtggg cacacgtgat acttcccaga tctcccagca accgggttac 180
tcatcacgtg ccgataagat tggggtgatc aaaaaattgc cctcaagggt cttttaccgc 240
actctacagg aggtcgcagg ttatataact gttcacattg caatggcgac gccggcgccc 300
gcccagacag agccttcggg cctagagaat atttctacat tactggagaa tctcaccagc 360
tgcttatcga gcaccgggtc gtcccttccg aaagcaaaac gcgaatcacc aagcgacgtc 420
tccatcgaac ctcctcacga tggcatatcg cttcttgaca ccaaaagtga cctgttacta 480
tcttacctac acaatctggt tttccttatc atcttccagt tgagagaggc agcctctgcg 540
gagccgaagg cagaagaaaa cagccatgtc gataatggaa actcgccact gcgcgaagat 600
attgttaaaa aacttaccga gctccgcgtg tatttggacc gaggcgtccg gcctctggag 660
ggtcgactga agtaccaggt tgacaaagtc atcaaggctg cagaggacgc cgacagagcc 720
gagcgcggtg cccaggcgac gacaaagagc aaggcaaaga atgcgaaatc tagtagcaac 780
agcgaatccg gctctgaaga gagctctggc gacagtgaga gcgataatga aggcgaagac 840
gaagaggagg atgacattga tgagatggct taccggccga atatctctgc attcgcgaag 900
ggaataaagt cggaggccca gacagaggag aaggcggaca agaaaatatc aggcgacggt 960
atctatcggc ccccgagaat tatgccaaca gcacttccca caaccgaacg caaagagcag 1020
agagaccgcc gtccacgcag atccaatgtc attgacgagt ttgtcagcgc cgaaatgtca 1080
gccgctccca tggcagagcc cagcatcggt agcacgattg tccaaggagg aagacattcg 1140
aagactagga aggaaagaga gcgcgaggcc gaacgtactg catatgaata a 1191

<210> 3187
<211> 855
<212> DNA
<213> A.fumigatus

<400> 3187
ccaacacgta actccagatg ccctttgcac caagtggtta taagttttac cgcaacgtca 60
gggactatgg tgccacgggt gacggaacag cggacgacac cgcggccatc aatcgagccg 120
tttctgatgg caatcgctgc caataccgtc ttgccgacaa cggttgtcac gtcaaatggc 180
aagacacaga ccttttccga ggatcgaatt ccgagtctta cagatttgac aaccaccacc 240
aaggtcacta cgaccctgag tgagaacgag atccaaacgg ctacctcaac caccactctg 300
attcccgtta tcttcccagt cacgaagggt ggcttttatt ggtcgccagt gccggagcca 360
actgccccgg agttccccat cccctccctt cccgactttc ctcccgttcc ctcgtcacct 420
tgtttcaagc tgggagatct gttctctcgt aactgtcctc caaacgacaa caaggcgcca 480
cagacaacac actttacccg cggtccgaat tcccctagct gccgcagcaa ctgtggtcat 540
ctacggtccg aaacagacag ctcgtcctcg agctcgtgta ccacccagaa tgtgacatcg 600
tgccctaagt gcatccttag ccaggtattt gaatttctca acctgtcctg gctttatcaa 660
ttaaatattt catttttgcc acgcaataac agagatgctt atctagatat tcaccatagc 720
gaaccacaca ggaacagccc tccctcaggc acagacacca gctgctcctc agagaaagag 780

aaatgcatgc agcatgcgca gctttggtta agaaactcag caccgacttt gccagtaata 840
aacccagtga tgtga 855

<210> 3188
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3188
ctccagatgc cctttgcacc aagtggttat aagttttacc gcaacgtcag ggactatggt 60
gccacgggtg acggaacagc ggacgacacc gcggccatca atcgagccgt ttctgatggc 120
aatcgctgcc aataccgtct tgccgacaac ggttgtcacg tcaaatggca agacacagac 180
cttttccgag gatcgaattc cgagtcttac agatttgaca accaccacca aggtcactac 240
gaccctgagt ga 252

<210> 3189
<211> 855
<212> DNA
<213> A.fumigatus

<400> 3189
gtatttcacc gtgattcatg ttcgcccgct ccatttctgt tcgaatcaga cagaattggg 60
agttgtttca cattcagaac ccatgctgcc ttcatttggg ccacagaagt tgaggaaaag 120
aaggcctcgt tcatccaaca ggagcaatcg gcctatgcac ccagacatct gctatccccc 180
gctggaactg caaatgccac cagcagcaac gggaagggct ctattcgaga ctcacagctc 240
tataagagga tcttaggaca gtccctgaag caggttggct tgtccgaaaa tgctaatgaa 300
gacgcttcac accagcctga gtcgagctcg gctcgagata aaggcgcgat gccatatatc 360
gtgccccccac gaacggaggg tgaggacggt tattctagct tcaaaggctt ccgaggatat 420
actggagaag aaaacgaaga tttagtgcgc caggtgaccg aagtcgcagc gacagcggcc 480
gccgttgccg ctcgtgatgt tgctcggaca cgcaagccat ccgtccagca gggcactgca 540
cgtcacagca ataagatcac aggtgatctt tcgaagtccg ttctggagga ccaagaagac 600
gtcgggattg agcacacaca tgctagcggc ggtcatgacg cgccaaattg gagcaaagct 660
aagagctcga tcattctcct cgtggccaca atactgtacg ctatcatagc cgagattctc 720
gtgaacaccg tggatgttgt cctcgagagc gttgacatag acgagaaatt ccttggaatt 780
accctctttg cgcttgtccc caatactacg gaatttctgg taagaccaat tcaatcaata 840
cctgcagctc catga 855

<210> 3190
<211> 309
<212> DNA
<213> A.fumigatus

<400> 3190
catagacgag aaattccttg gaattaccct ctttgcgctt gtccccaata ctacggaatt 60
tctggtaaga ccaattcaat caatacctgc agctccatga atctcacacc tgtacagaac 120
gctatttcct tcgcgatgaa cggtaacatt gcattgtcaa tggaaatcgg ttcggcctac 180
gcattgcaag tctgtctgct ccagatcccc gcgctggtcc tattcagtgc actctacagc 240
cgtatcctcg atcccctcgga ccttttgacg cattcgtctt caccacggga gtgccggatc 300
cgcggcagt 309

<210> 3191
<211> 582
<212> DNA
<213> A.fumigatus

<400> 3191

ccttccagcc ccgtggtgaa gactttccgc tggcgtctcc tggctttcca gccgatcgta 60
ctactctcca acgcaatcca gtatctcccc agtatcttca cgaaaggccg ccgcaacggc 120
atctggatcc ctctcaagcg agcgccgggc cactcagtcc gcgccattgt ttatcatccc 180
aggacacaaa cccactctgg atccagggcc atccatctta acatccacgg cggcggattc 240
ctaggcggac tcccagaagg ccagacatca ttctgtcaga aagtcgccca cgaaaccgga 300
gcgattgttg tatccacttc ccatagatat gcaccgcgct atacctttcc aaccgcgcac 360
gaagacgtcc aggacgttgc ggagtggttg atcgagaacg ccgagcggct ttggggcacg 420
aatccgagat cgatgaccgt gagtggattc tctgcaggcg ggaatctcgc attgggcgtt 480
gcgcaggggc tggcgcatac ggagtttagt atcaaggcgt cagtgacgtt ctatgcaccg 540
gtgagtatat atattattca tcgccttcat cgactgttct aa 582

<210> 3192
<211> 198
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (11),(13),(21),(50),(190)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3192
agaaggggac nanaaaaata nttagggatc caatgggctg tgtttagtan aaaacttcca 60
cgaatactct ctttgttggc cattgcccac gcccagaaca cgaagaccca tctcggccaa 120
cccggaagaa ggactcgaac accttcaact cggttgcggt ggtgttcaaa cacgggtgaa 180
cggcaacccn tctcttga 198

<210> 3193
<211> 891
<212> DNA
<213> A.fumigatus

<400> 3193
acacagggtc ccggggtcgc aagaatcagt ggtggaagaa gcgcaaagcc ggatgacttg 60
gacaccccga catcgaacaa ggacgaggcg cgatattgtc gtggcacccc ccgcgcggcg 120
gccagcggtt tccttcatct tctataccct acaccggagt tatggaccgc gtcgctcccg 180
catcggaccc aggttgtcta cacaccagac tacagctaca ttctgcatcg gctctgcgtt 240
cgccccggga gcacaattat agaggctggg gctgggagcg gctcctttac acatgcatct 300
gtccgcgcag tcttcaacgg ataccccctcc gaggcacccg cagctaagaa aagaaggctg 360
ggcaaggtct gcagtttcga gttccatgca cagcgcgcac aacgaatccg ggaagagatc 420
cacgaccacg gcctggacgc actggttgag gtgacacatc gcgatgttta cgaagatgga 480
tttctcctcg gggacccgaa aaccggcaaa tcgcccaaag ccaatgcgat cttccttgat 540
ctgccggcgc catggcttgc gctcaagcat ctcgttcgca ggccccccttc gggagcggag 600
tcgcctctcg atccctcttc gccggtatat atatgcacgt tctcccctttg tatcgagcaa 660
gtgcaacgga cgatcaccac acttcgtgag tattcttggc tctcgatatc aatggttgag 720
gtgaatcacc accggattga tgtcaaacgc gaacgaaccg ggttagactg cgagggtgtc 780
cggggcgcga cagtcttccc caagtcggtg gacgaagccg tcgcaaagat gcgcgccgtc 840
gaagaacact cgagaagatt gtcttcaccg cgggctgcaa ggagcgctgc t 891

<210> 3194
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3194
aatcatatcg atgagaagaa aatagaatac gttcacttac cacgcaacgc cttgaaccgt 60

gttgattata gcactcttat gggatctgtt ttggcagcgc agatcagctc tgatccctca 120
ggagtgggca ctctttcgtt cacagaactt gaggaatacg aagagagtga gatgaggccg 180
gcgggctttt ga 192

<210> 3195
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3195
agagtttgtg gcagcgctga tttgccattt ccttgttcgg acatcctacc taagggctgg 60
gcttcagagg ggcaacctag tactctctgc tttaaggata aggatgtcta ccccttcggg 120
cctggatttc cgtttcacac ccgcctaaaa gcggacgagc gaagtaacgt gcttcgctgt 180
gcttgctaca ccgccgtgtc aaggtga 207

<210> 3196
<211> 198
<212> DNA
<213> A.fumigatus

<400> 3196
cttttcaagg atgataagga caatttgaaa tcgggcaact tcctaggagg tatgcttgca 60
gacttgcaag gtggagttgc tggtggtgaa ggtcgggata atccagatga ctgggaggca 120
aaattcaagc ccgaagtcga agatcaatat attgatggtc tcacacgggg ctggaaggat 180
ccgcggaggc gctatcaa 198

<210> 3197
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3197
gtcatggaac ctgactatgg agctttaagt tcacggctga ttcggggagc atttctcttg 60
cagagcagta tcaacatgga agaccttaga ttggaggagg atgagtacct cagcttttgg 120
gtcacaaaca acgctggcat cgagcgtctt gctctgtcta cacgacgggg gtcgaaggaa 180
acgagt 186

<210> 3198
<211> 384
<212> DNA
<213> A.fumigatus

<400> 3198
ttgacgctat ctgagacggc agtgtctcta tatgatgtcg ttgcacagga ttacagcggt 60
ctctttcttc aatctactag aagaagacgt ctagattcac taaaatcaca ttccgactcc 120
ctgaagcaac ttcagccctc tacaattcag tctgcataca cccaacagca gacccttaat 180
atccatacat ttaactatat ctatggaact gtcttctttc tgccgcagtc tagagaccag 240
taccctaagt atagctccat aactctcttt ctggccaaag atggaggatc cattgaccat 300
tctggtctgt actcactggt gtgtttcagg gcatgcccca tcacgtggct tcactactca 360
ccacatccac gtgggtccac gtga 384

<210> 3199
<211> 372
<212> DNA
<213> A.fumigatus

<400> 3199
ttgcgatatc gagctgcctg gctaaccttt caatcggtgg gagcgaagga taagattagg 60
tgtgcagttt tctcacttcc ctcggctcgt gagcttaaag ctacgcacct agaacccaaa 120
aagccttggc catcgagagt cgagacagcc gcccatgaag gccagcctaa tttattatgg 180
aagaattctc atgttgattt tacaaagtac gcccatattg atggaatact tcctgaagtc 240
tggagaacat ctggaccagg gatttctggt acggtaaaca gtgggttagg tattagccaa 300
cacatctgct atctaggctg tgagcacacg cgcgatgctt ctatctatct acgaaggcac 360
atcctcactt ga 372

<210> 3200
<211> 468
<212> DNA
<213> A.fumigatus

<400> 3200
gatggattac ggtacgaaag cgtccgcaca aaaggtcaaa cgatactaac aaggcagatg 60
ttctcctggt gggcaaacgt ggccacctcc ccctacctga tcggcaccca gatccaggct 120
ctggtcattc aaaaccaccc ggagtatgtt ccccagccct ggcacgcgac tctcattgtt 180
tgggcggtcc ttctcattcc tgtggctgtg aatatctatg cccgtcgcct tctgtcgccg 240
gttgaggtaa ttggcggtat catccatatt ctgttcttcc cagccgtcct gattacgctg 300
gtcgtcttgg gatctcgcaa ttcgtcggaa ttcgtctgga cacatttcga gaactccatg 360
agcggctgga agaatgacgg ggtcatctgg tctgtgggtc ttttgactgc agtctacact 420
ctgggcggta cagatttgtc ttcccacagc actctgtgtt tgcgctga 468

<210> 3201
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3201
tctgaccgca agcagagata tcttagtttc ctgcccatgt tggcattcgc agcaaccctc 60
caagcgtcct gggaggctat cggcgcgagt atgtttgctg gtttggagaa cgggggccg 120
gttgttctca tttatgggct catcctagcg attgtgggtt ctctgggcat tgccctgtct 180
ctggcggaac tcgcatcaat gtga 204

<210> 3202
<211> 615
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (6)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3202
tctgtngtgt cgttctccca taatcatcag cctttaggtc tccggttctc ctcccgtgga 60
cgacacccct ccttcattcc agcaaccttg cagtcatcga tgcatctccg aaacttttct 120
cttgcggtga tatcgacggt tgtcgcatct ggcgcttggt acgcttatca gggtagcaac 180
tctccgcaga gccccgtgac gtccccatcg caaacaaggt caatagctac agacgcatct 240
tctggaccgc acgctgaaga atctgcggaa tctaccagac gtgcgatcct cgtggataat 300
gatcagttct acacggcaac attatctgga gaccagcctc tctacaagca gacagacgat 360
tccgaccgcc gaattctaga gatgttgacg cctgaacagg cgacacagaa gttgaggaga 420
aatgaacagt cctttatggt aaatcggggc aaaggtgtcg tgcgatacga tgtcgtccag 480
gttccgagca actcgcccat cgaggatgat catgcggaga agattgtcga agtgccttcc 540
tctgtagctg cggcgaacga tgggggggtcg acgagtgatt ggatgttttg ggctgtattt 600

gatggtcatt cgtaa 615

<210> 3203
<211> 813
<212> DNA
<213> A.fumigatus

<400> 3203
gctaggggat ggacaacctc ggccaaactg cgcaatgttt tgatctcata cgtggcccgg 60
gagctgaata cgacctacaa ggctgcagct accaatcctt cacttattag cccgtcatcc 120
gaagccgtgg acgcagcaat taagcaggcc tttgtccgcc ttgataatga tatcgtgcat 180
agtagtgtcg acaaggtcct caaatccaat tcccgccgag ccgcagctga gctgcttgcg 240
cccgccctct ccggatcctg tgctttgctt gcattctatg actcgcaatc taaagacctc 300
aaggtcgcct gtgctggtga ctcaagagct gttcttggcc gccgtggacc taccggaaaa 360
tggacggcaa caccactttc tgaggaccag actggtggca ccccttcaga gatgaagcgt 420
ctgcgggagg agcatcctgg cgagccgaat gttgtgcgta acggacggat tctgggacaa 480
ctggagccta gccgctcctt tggagatgca ttctacaagt ggagcaagga gacccaggag 540
aaaatcaaaa agcagttttt tggaaggacc cctcatcccc tgttgaagac tcctccttat 600
gtcactgccg aacctgtcat cacgaccacg aagattgagc ctagtaaggg tgactttgtc 660
gtcatggcca cagacggcct ctgggaaatg ctgaccaatg aagaagtcgt cggacttgtg 720
ggccaatgga ttgaccagca gcgggctggc aacaatggaa ccagtaaggc gtggctgcag 780
agttggtttg gcttggacaa caagcgcgat cat 813

<210> 3204
<211> 480
<212> DNA
<213> A.fumigatus

<400> 3204
gacaagatgt ttcgctcagt tcctcgtcgg attcctcgac gtctccctac tctctcttcg 60
actgccggca gtccatctca tctcgccttg cgttcattca catgcggtta cccgcggatg 120
tcatcatctc cgctgccgac cgttgagccc ccggtttcga cgaccttgcc atcagactca 180
tttcagttgc tgtcaacagc tgagaagtcc gggagtgcgg aggatgcact ttatgagcaa 240
caaatcaaag atgtggaggc atggtggaaa tccccgcggt tcgagggtat caagagaccc 300
tactcggccg cggacgttgt cagcaaacgt ggcactttgc agcagacata tccgagctct 360
ttaatggctc ggcaagccta ttcaatctgg ctaatagaaa agaaccggca aagggaaaac 420
ccgtttctta ccaattatgg taggaccctt tatactggaa cccttggtca aaagtcttaa 480

<210> 3205
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3205
ttactaaata taattataag atctataata aagagttact tactattatt tactatttta 60
aagaataaca ccctaaaact agagggtata ctattactaa ttaaaattat aactaattac 120
tatagcctag aatatttata tctattaagc tacttaatag ataataagcc tattagtcta 180
aattcctatc ctactttaat tttaaaatta tatattaacc taggaagcaa ggagttaagc 240
ctaatactct aa 252

<210> 3206
<211> 234
<212> DNA
<213> A.fumigatus

<400> 3206

acggactgcg ggatgctcac cttcagcgac gaggatatca gagccaagat ccgggaagag 60
cttggcgagg atgcgtcgga tatcaagttc ctgccgttca gggatctgga ggcgagtgtg 120
cgggaggatg tgaggttctt gcgggggagc agacttgtcc aagggaatgt gacggggtat 180
gtgtatgagg tggagagggg gcggttagtc cggttggacg tgagtgatat atga 234

<210> 3207
<211> 423
<212> DNA
<213> A.fumigatus

<400> 3207
caaactggcc gtcgtcacct gcatggacgc gcgcatcggt accctccgct tccccctttc 60
tcgtctcctt accgtagtac taacagcgca gacgtcttct ccgtcctcgg cctcaccgaa 120
ggcgacgcac acgtcatccg caacgcaggc ggccgagcca gcgaagcgct ccgcagtctg 180
ataatttccc agcggttgct tgggacggag gaagtggttg tcatccatca tgtatccccc 240
gtctgttccc atcctagttt gactagcggt actgatgatg acgatgatag acggactgcg 300
ggatgctcac cttcagcgac gaggatatca gagccaagat ccgggaagag cttggcgagg 360
atgcgtcgga tatcaagttc ctgccgttca gggatctgga ggcgagtgtg cgggaggatg 420
tga 423

<210> 3208
<211> 420
<212> DNA
<213> A.fumigatus

<400> 3208
gcccgcggct gcaaccgcga gtactccgcc gagtgcgact tcgttttccg cgcgcgcgcc 60
accacgtttg tttgcctcac ctggttcgcg ctcttcctgg cctgggagat ggtcgacatg 120
cggcggtcgt tcttccgcat gcagcccggc tcgacgcggt atctgacgca gtggatgtct 180
gatgtctggc ggaaccagtt cctgttctgg tcgattgtgg cggggttcgt gacgaccttc 240
cccattctgt atatcccggt tttgaaccat gtggtgttta agcacacggg gatctcgtgg 300
gagtggggga ttgtgtttgt ggaggcggtg ctgttcttcc tgggggtgga actgtggaag 360
tttgccaaga gggtgtattt ccgccggcag caggggaaga acgttcagag cctggcttaa 420

<210> 3209
<211> 552
<212> DNA
<213> A.fumigatus

<400> 3209
tatacaatct tccttttcct ctcttctccc tttaggaatc ctgacagata cccttgctat 60
caggagaacg gacgaacata ccatggatac cgcaaaggaa tctacatgtt gccgtgcgac 120
gagcaggagc aggatcgtct agatatattc cacaagcttt tcactgtggc gagagtctcg 180
gacggactga tctatgctcc acatcccacc aacggccggt ttctcgattt gggatgtggg 240
acagggattt gggcgatcga tgtggccaac aagtatccag aagccttcgt cgttggggtt 300
gatttggccc ccatacaacc tccaaatcac ccgagaaatt gcgactttta tgcgccattc 360
gactttgaaa gcctttgggc tcttggggag gattcgtggg atctgattca catgcagatg 420
ggctccggca gcgttgcaag ttggcccaac ctctatcgga ggatttattc ccatctccgt 480
cccggtgcct ggtttgagca ggtcgacatg gacttcgaac ctctttacgg cagggccgaa 540
ataagcgatg cg 552

<210> 3210
<211> 321
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (28),(41),(48),(115)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3210
ccagtccacg tggtctttcc ttttggtnac ctcgtcaaca nacttggngg tttcttcttc 60
ttcttctttt tttcccccaa tacccgattg gacttcctcg acctgatgtt tctcnacggg 120
cagggcggac agcgacctcc ggatggtgct ttcccgccac ttaacgttcg cggatttatt 180
tcgtcaggtt tcaatgcctt aggccgctca agaaacaact ccgatgctat ggacatttat 240
acaatcacag acaggggtcc ccgctgcaga gagagacccg gccgctggtc gttggcacgc 300
caatggttcc ccaagtatta a 321

<210> 3211
<211> 186
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (25),(67),(87),(114)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3211
ttgtctcata attctcaagg aatanagcac agcctgaacc tgcgccgtaa ggtgtatgtc 60
tgcccancct gcccgatcac ccatatnacc aaaattaaag aatctactaa atancttatt 120
tctgggaagt ggagaagcac tgtcacccca accataaacc tcacacagtg caaatatcct 180
ccatag 186

<210> 3212
<211> 279
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(151),(152),(153),(154),(155),(156),(157),(158),(164),(170),(172),(173),(174),(
175),(176),(177),(178),(179),(180),(187),(188),(189),(191),(192),(193),(197),(1
98),(199),(200),(201),(202),(203),(204),(205),(220),(233)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3212
ggggggggta ttatcttttt agcactgctc ctcttggggg ggcgcacggt acctgttgta 60
tctaaattac aacagccccc gtggggtgat attatgggtg ggtgcgcgcg ctccacaagt 120
aagttttatc tagggaagca ttttgtacga nnnnnnnnac cganccgacn gnnnnnnnnn 180
gggcggnnng nnncggnnnn nnnnngccgc tcggcatccn atgcattcga gcngactggt 240
atcgttgcga tacttcttat gttgtctcat tccgtttga 279

<210> 3213
<211> 285
<212> DNA
<213> A.fumigatus

<400> 3213
atcggcagcg gcatgaacag tgacctattc cctccacagg accgatggaa ggccatggca 60

gtattcaccc tggctccact cataggaacg gctatcggcc ccatcaccgg ggcatttctt 120
gttcaatacg agtcctggcc gtggtgtttc tatgtggtct ccatcgctgc cgctgttatg 180
cagcttgccg catttctcct acttcgtgag acatacgggc ctgttctatt gcgaaggaaa 240
tgtgctcgaa tgcgcaagac aacaggaact ctcacttcac tgtaa 285

<210> 3214
<211> 339
<212> DNA
<213> A.fumigatus

<400> 3214
gtgacgtggg atggtcccaa tgaccctgag aatccgaaaa actggcctgc gagtcgaaaa 60
tggatggtct tcattcctat gtccttgttc aatctcttga gctcaatgtc ttcggccacg 120
gtagccccgg ctctggaggc aatcgccgat gatctcaaga ttcgttctca aacactgctt 180
atcatgagtc tttctgtgta cctgctcggc agtgcaataa tccctcttgt cagttcgcct 240
ctctccgaaa tgtacggacg agtcatcatc ctgtccgctt cgaatatcgt ctatatcatc 300
ttcaatacac tttgcgggat tgccaagacg caaaactag 339

<210> 3215
<211> 987
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (46)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3215
tctgctacta ccagcgtatg tatattcccc ccccccccg ggccgnacta tcacgacagc 60
ccactaatct ggcgcagctg gcattggatc agatataacg ccggctcggt cgctcacgcc 120
gtcttgcgcc ccaggggcat gtcatggact ccaaggcctt tggaccttgg ggtggggacc 180
tcattcgatc agcatgttat tcgaggctac cgattccttg cacgccgatg ggtaccgggc 240
gccaagatct acctctttgg cttttctcga ggcgcataca cagctcgatt cctgaacgag 300
atgctcgatt acgtcggcct gctttctgcg gacaacgagg aactgatccc cttcgtctgg 360
gaggcgttca cgcagtggaa attctccgag ggtgagaagc cagaggagcg tctgggtgca 420
atgcgaagct tgagcgtgag tcgagagacg atgtgtcgac ccgttggcca agtccacttc 480
ttgggcttgt tcgatacggt caacagcgtg gccgagttta acaaggagag cagcacgcgg 540
ccaagcccga agatcatgag acacgccgtc agtattgatg agcggaggat caaatttcag 600
cccgtactct tcgagagcaa gttgggcacg ggatcaccgg acatgaagca aagcgttgat 660
gactggaaga aaggacccga aaacatttat gacacagaca atgacgggga gttctcaata 720
ctcgaggccg actttaagga ggtatacttt gctggaaacc acggcgacgt tgggggaggc 780
tggccgagca agtcctggcc cgcaagccag atccctctga catggatggt ccaagaagcc 840
atcaaggccg ggcttacgtt cgaaagcaac aagcttgagg tgctcggctg ccaagatcca 900
gcaacatgtg ggagcggtca ggacatcgta cgccaggctg agcgtcttca ccacggggct 960
ggaaggatcg acagtgtgct aactaca 987

<210> 3216
<211> 477
<212> DNA
<213> A.fumigatus

<400> 3216
aaacgtatga atcaaaaacc gtccgttggt tctcctgagt ggcaccaaat tcgcaagaac 60
aatcacaaag agggtaagct gcggcaactg ttttgtgggg cgattcaagc taactcgatt 120
tcagtggaac gtcggcgtcg tgaagctatc aacgagggta ttaatcagct agcgcgtctg 180

gtccccaact gtgacaagaa caaaggcgct atcctacagc gtacaatcga gtacatctgc 240
cagctgcatg atgagaagaa aacgatgagt gaacgatggg agcaaaataa catgactaca 300
agtcatgcta tcaacgagat cagcgcccag aattccaagt tgaaattaga agttaaccgc 360
cgtggagata tcgcccagaa gtggcttcag cgctgtcgcg acgcaggtct cgagttcgac 420
gactacaacg atgctgaaga gctcgagccc cttgaggtcg accagggtca ggtctga 477

<210> 3217
<211> 348
<212> DNA
<213> A.fumigatus

<400> 3217
ctttataccc ttgcagaaca caaatttcac gccctcggta gtgatgtatc agtcgcatac 60
caaccagaag atctgatccg aaatcccccc cgaccctccg atgtcaccct agaattgctc 120
ctcgcatccc aaacgcacct cggccattat acttctcgct ggaacccgca gaactcgcgc 180
tatatctttg gtattcgaga aggcgttcac attatctcgc tcgatgtaac tgcagcgtac 240
ttgcggcgtg cagccaaggt tgtggaagag gttgctgccc gaggtggatt gattcttttc 300
gtcggcacac gatgggctat ggacccgccg ggctcgaaag tgacgcgg 348

<210> 3218
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3218
aattcccaac tgctgccgtc attgtttcta acatcaagtg ccttcttcca atttacaatg 60
cagattctcg acagtggtga gaagattacc ccagaggctt taattcccaa gtttgaggtc 120
aacagactcc tcaagcaagg taagaatcat ctcctgtcaa gattcagatg cacgtcttca 180
ccgggggctc ag 192

<210> 3219
<211> 432
<212> DNA
<213> A.fumigatus

<400> 3219
aggggaagta tagtttcgta tgtggtcctc tttgtctttg cttgggatga agctgcggcg 60
ctaatgatgc tttggcaggt atactttggt ttcacgcact gtcccgatat ctgtcccgat 120
gaactggata agatggccga gattatcgat cgggtcaagg aggcgacgaa gggggagaat 180
atcttcctgc cggtgtttat tacatgtgat cccgcacgcg atacgcccca ggtcctgcgc 240
gagtatctga aggagttcca tccggatatt attggcttga cgggcacgta tgagcaggtg 300
aagcatgtgt gcaagcagta ccgagtgtat ttcagtacgc ccaaggatgt gaagcctggg 360
gaggattacc tggtggacca cagtatatac ttctatctga tgggtgagtc tcgctttcct 420
cgcgtcaagt ga 432

<210> 3220
<211> 255
<212> DNA
<213> A.fumigatus

<400> 3220
actgagcctg acctgtacct gtatatgtac attagacctg acctctcaaa tccacgcctc 60
tattttcccc cctcagtcga agataatatc ctcccctccg catctctctc cctattctcc 120
ctccactcca tccccccatc cacaaactcc tccctcttcc aaatttccac tttctctttt 180
acctcctcca gcacctcctc tgccgccttc cacgccatcc cacgatgccc cgcactaacc 240
gctaaccaca attga 255

<210> 3221
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3221
tactgggaag accctccgtt ctcgtggaag gcggcgctgc tgttcgtgct gacgggcgcg 60
gggatgatcg tttacttccg ggttgagaag gagcggttgg agcggaagcg gatcgcggag 120
atgagcaagg gggttggacg gccgaaggtt gggggccctt tcacgctgac ggatttggat 180
gggaaggagt ttacggcgga ggatttgaag gggaagtata gtttcgtatg tggtcctctt 240
tgtctttgct tgggatga 258

<210> 3222
<211> 552
<212> DNA
<213> A.fumigatus

<400> 3222
agaaccgata tcctgggctt acccattggt caacacatct ccctcgctgc cactatcgag 60
ggtcagccga aagaagttgt ccgctcctac actcccattt cttcggacaa tgaggccggt 120
tactttgatt tgctcgtaaa ggcctatccc cagggtaaca tttccaagta cttgaccacc 180
ttgaagattg gcgataccat gaaagtgcgc ggtcccaagg gtgccatggt ctacactcct 240
aacatgtgcc gtcacattgg tatgattgct ggtggtactg gcatcacccc catgttgcag 300
atcatcaagg ccgttattcg caaccgccct cgcaatggcg gcaacgacac caccaaattg 360
gacctgatct tcgccaatgt caacccagat gacatcctcc ttaaggagga gctggatatg 420
ctggctgctg aggatccgga cttcaacatc tactacgttc tgaacaaccc tccccaaggc 480
tggactggtg gcgttggatt tgttactccc gagatgatca aggttcgcat catttctccg 540
catgctgatt ag 552

<210> 3223
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3223
attggttctc ttgctgatct catatcttca caggaacatc tccctgcgcc tgccagcgac 60
gttaagattc tgctctgcgg ccccccctcct atgatcagtg cgatgaagaa ggctaccgag 120
tcgctcggtt acaccaaggc tcgccccgtc agcaagcttg aggaccaggt cttctgcttt 180
tag 183

<210> 3224
<211> 1218
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (123)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3224
ttttctcaat caaggccggg tgccttttc atggtccact tccgttccaa agaacttacg 60
aaactctccc cattcggcaa gtggtgcaac gcctttggca tccacggcgg ctttatgatt 120
gancaggacg acgtcgacac ctatacctgt cacgaaccgt gctctgctaa tgccgccgca 180
atcagagacc tccaagaaca tcctgaagac gttccttatc gtgtgcttgg cagtctcggc 240

aagccttata aatttcaaat cgatgaaatc atgctggcca atgcatggcg tccgaacttt 300
gcccttgcag attcctacgt cagtcgtgat ggacagggcc gcgtgttcct cggcggtgac 360
gctgctcatc agaaccctcc acatggcggc tatggcatga acagcggcat agaggatgct 420
atctcgctcg cgtggcgtct ctcagcgtta tacaaaggca tcggtggagg caacctcatt 480
acttcatata cgaatgagcg tcgaccaaac atgatgctgc gtctcgaacg ttgtgctgct 540
catattggta aatttactcc aatgattatg cgtactatga tggcgccgag cacagaaatt 600
ttcctcgagg agagtgagga aggagagaag gcacgagccg agatagcaac gcacctggac 660
agcgtggggc ctgaaaatat cgaccgcgga gtcgaactag atctgcgata cttgaatagt 720
gaaatcatcg tgagcgacgg gacgagggag ccgagattcg ataacatgcg ctatacgcca 780
agtacacggc cagggcatag ggcaccacat gtattcttga gagatgatca gacaagtatc 840
gtggatctct atggaacaga gtggtcattg atggacttct caaaagtcaa aagcgactct 900
caaacgacca atggcttcgt cagcttggat ggtgaaatga cctccccggt ggcgacattc 960
aaagctgttg ccaaggcaat gcagatgccg ctgacgcacg tccaactgga tgccggagag 1020
aagcacgtta aggaggtgtg ggaaaattac gattatgtct tagtccgtcc agacgggtac 1080
gtcgcctggc gtggaggcaa agaaggagcg agggatgaat gttgtgagct gaacgaggga 1140
cggataagga acattttgag aattgcgctg ggttggaaga cattcttcac ccaccggggc 1200
tggaaggaca cgcgctac 1218

<210> 3225
<211> 627
<212> DNA
<213> A.fumigatus

<400> 3225
ccgctcgacc aggacgatct ggaagatgag cagcaagagt ttgtctggga ccgatgctta 60
aatgatcaga tgttcgtgtt ccaagagcat gaactagaac gaatcctgga cattatcatc 120
accaatatga ccccgcaacg ttcaccatca cagaaaccgg tgcccgcaaa tctcctgttc 180
ctcagcgcgc gatatgccca ttatcatgcc agtccggagc tgctggcgga tctcctcaat 240
tcggcgacgg agaagatcaa tgacgtcgtt gaacgacatc agtgggacat gaccatactc 300
gcattctgga tgtcaaatgc tactctactc ttgcattact taaagaagga cgccggcttg 360
gtagggtcga ctgtcgagtt tcaactacac ctggcagagc ttatcaacga gatattcatc 420
ttgatcatcc gcgacgctga gcgtcggatg aacaaggtgc tcgacgctgc gatgctggat 480
catgagacca tcccaggact ggaagatgtg gccttccaga acgaatggaa gctcttccgg 540
cccaagaata agacaaaagc ccccgaaccc gccgagaagc ggtttcgtct aacacgcccg 600
ggaatgggac ctagcgcgtc ccccaac 627

<210> 3226
<211> 591
<212> DNA
<213> A.fumigatus

<400> 3226
tggcacaccc gtatctgttg cgctgctgtc gtcgcagggt cggtctacaa ggacgtactc 60
tcgacgacca ctggttggct tggtcacgat tacgcaaaga gtccctggca gctaatgcta 120
tcccccatgc ccgcaggcca atcccaattc ctcacaaccc ccatcgccgc aaaaccactc 180
agtttcagtc ttgcccttga tgaccactca cacgacgacg aacatactct ccaggctcat 240
tatggacgcg ggctcgtggc ctcgctggat gatgataacg cgtccaccat caccgcacgt 300
ctagaggaca gcgacgctcg gttaatggag atgctggcgg cgcaggcggc gcaccgggaa 360
cttgaatcgc tggacgcgga cgaggacgcc attgcgagcg acgagaagct tacggacgag 420
gagaagcgaa agatcctgca gcggagcttg aatatggcgg cgagtaatgg cgatgtggac 480
cgtgtgcata agctggtggg gggcaaggcg aaggactacg ttgatgtgaa tatggctgat 540
gaggagggga cggttccgct gatctatgcg agctgttttg tgcgtaatta a 591

<210> 3227
<211> 552
<212> DNA

<213> A.fumigatus

<400> 3227
tctatgcgag ctgttttgtg cgtaattaaa attattttcc tactggttgg gtgcggtact 60
gacggagaac agggacatca ggatgttgtt tcggcgctgc tcgatgccgg ggccaatgtc 120
gaccagcagg accggaatca gtggagcgcg ctgatgtggg cgatgacgaa ccgacacaag 180
accattgcga agattcttct cgatcatggt gcctcgccgg acatcaagtc ttcatccggc 240
gggaccgcgt tcgactttgc tcagccggga agcgagatct ccgagtattt acatgagaat 300
gggtacaatt tcggaccgag tgcgatcgaa gatgattttt acgattctgg gttcgcacat 360
ggtcggtttg aggaagagat ggcggagaat gagatgaagc ggcgcatgat gatggaggag 420
agcgctatca atttggaggt cgatttatcg agcctgggac ttgatgagaa gtttgaagtg 480
ggtacaccat tccgcagaga cgtcaatgat gctgaccgtg tagccgctcg accaggacga 540
tctggaagat ga 552

<210> 3228
<211> 372
<212> DNA
<213> A.fumigatus

<400> 3228
ggcatacagc tgaaacattt tggaaaactc ccggtcattg gaggaaggaa ctgccaatca 60
gtcacacaga ctcctgcaca tggggagaca tttaagattg gcgagcgcat ctccgtcaaa 120
gcactacaca ccccctgcca tactcaggat agtatctgct attatatgca ggacggagac 180
gaaaaggtgg tgtttacagg tgacacctta ttcattgcag gtgagacttc cattctctgg 240
tgtattcgaa tgaatctcac attggcagga tgtggtcgct ttttcgaggg aaatgctcaa 300
gagatgcaca aggcgttgaa tgagactctt gcctcgctac ctgatgacac cagagtctac 360
gtaagccgct aa 372

<210> 3229
<211> 381
<212> DNA
<213> A.fumigatus

<400> 3229
tttctttccc cagagctcct caatggcttc gtcatcctcc ttggatcgac cactcccacc 60
tctttgtcca aacgcaatcc atatacttct ctctccaact cttgtaacaa ccccttccgg 120
acctttggac gcttcaactg catcttttcc cccagctttg cccctatcct tcgaaagctt 180
tctgcttccc gacccactcg tgtcgttcac gcggacaata tccccgactc gaattccgtg 240
cgcaccaagc ctcggttcac cgtcagctcc agctctgtca tcgtcgatct tgttcgtcct 300
agatttgctc gaagatacac ctgcatccgc agtgaactcg ccgacaacgc gcccgcccag 360
tccggttcgg cattgcgata a 381

<210> 3230
<211> 948
<212> DNA
<213> A.fumigatus

<400> 3230
atagcttacg tttctagtat gaaccaaacc atggagaaaa tggctaaaat gacggactcg 60
gagtactcgc actttatgcg ggttgccttt ggccatacag ctccaatgca accagattat 120
ggggccattg gccccccttga gttcgttgat ccaactttaa acgattcaca gaaagaagct 180
atacggtttg ctttggcggc tagggatgtg gctctcatcc acggacctcc cgggacaggc 240
aagactcaca ctttgattga gctgattctc caaatggtca aacgaaagct tcgcgtacta 300
gtttgcggac cgtcaaacat ctctgtcgac aatatcgtgg agagactagc tcccaacggg 360
gtaccagtag tacgcattgg ccatcctgct cgtttgctac cgtcagtcct tgagcattcc 420
ctagaagtac tcactcacac gtcagaggcg gcagcgatca tcaaagacgt gaggaaggag 480

attgatgaaa aacaagctag catccgcaaa accaggaccg gtcgggagag acgggcaatc 540
tacgatgacc tgaaagaact ccgtcgagag tttcgcgagc gggagtcgag atgtgtggac 600
aacctggttc gcgaaagcaa tgtcgtcctt gccacgctcc acggggctgg cggccatcag 660
ctgaagaatc agaagtttga cgttgtcgtt attgacgaag ccagccaagc tctggaggct 720
caatgctgga tccccttatt tgcaacgtct aaagtggtac tttgcagaag accaactgaa 780
gattcccctt accgtaaggc tttcctttgc caattggaga acccagggaa gaaagagggg 840
ttcaacccca aagtaggctt gacccaattt ttgcgggaaa ctatggcgaa ttttcttggt 900
aaaacaagtt ttggagacaa ttcctctctt gaaggtgacc cggtttaa 948

<210> 3231
<211> 195
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(54),(55),(61),(62),(63),(64),(65),(66),(67),(72),(73),(76),(77),(78),(80),(81)
,(83),(96),(146)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3231
ttcttgcttt gcatccggga gaagtcgcga cgtgagttct cgtatttttct tttnnncctcc 60
nnnnnnnttc cnnttnnncn ntnccttttt tttgtnctct accctgtgga actgctgtcc 120
ggtcgggggtc cgttgggttt gccctncccg ccctatcgcg aactgggcct taaaggaaac 180
cccctgggaa cctga 195

<210> 3232
<211> 291
<212> DNA
<213> A.fumigatus

<400> 3232
acccgtcacc agccaaacac caacctaacg gccaacggga acaatatgga gacccaaact 60
tggctcattg ttggcgcatc tcgcggaatt ggccttgaat ttgtgcgcca gcttctgacc 120
agcggccatc gggtcattgc cactgcccgt gggcctggaa gtgctctgga caccattgct 180
cgagatgcgc ctgaccgagc gactattctg acctgcgacg tgtcgaagaa cgagagcatc 240
atggtatgta tatgtatacc tatctgctac caattgcgac aaagatacta a 291

<210> 3233
<211> 630
<212> DNA
<213> A.fumigatus

<400> 3233
tataaacagc acaacctcac ccatccagca gctatactcc aaaactgcca gcaattgcat 60
cgacacgaat tgacgagagc tgacaaagat cagtcaaatg ctgaaatgtc ccgcacagtt 120
tgcatcaccg ctgtagacgg ccacacgggc ttcctcatcg ccgagctact cctcacaaac 180
gagaccttca aatcccacat caagtccgtc gcaggtctca ctttgcaccc ccacgcagca 240
aaatgcaagg agctcgccaa gctgggcgtc aagatcgtcc cacacgagcc gggccgtctg 300
aagcacaccg tccagaccct gcagcagatc ggcgccgagg ccatgtgcct gattccgccc 360
gcgcataagg aaaaattcga catcacgatg gagatgatcg aagcggcgaa gaaggccaac 420
gtcgccaatg tctgcttcgt tagctcggcc ggctgcgatc tcgctgagag agacaagcag 480
cctcatctcc ggagctttat tgacctggag gcagctttta tggcctccaa gggcgattct 540
tctacccaga cgggacactc gccagttgtt gttaggtatt ctccaccctc tctttatcct 600
tgtctttttg cgagacaatg ggcaatctga 630

<210> 3234
<211> 528
<212> DNA
<213> A.fumigatus

<400> 3234
agacgaaagc gaggggctga tgagggacgg gatgcgctgc gacgggcgca gaagttgcgt 60
attggggcac gatcaatccc tggtgtaccg attgtttacg tgaaacggtc tgttatgatt 120
ctcgagccaa tgagcacgcc atctgaagaa gtacgagacg gagttgaaaa cagaaagttc 180
cgggtgggtt tgaatgatga agcggtgtta ggcaaaagaa agcggaccga ggacggtgag 240
gagaaaaaga agaagcgagg gccgaagaag cccaaaggcc ctaatccctt gagtgtgaag 300
aaaccgaaga agaaaccagc agaaacggcc agtggaccga aacaggagaa gcggaaggaa 360
cagaaattag acgaggcgcc ggacaggaca aacgatgacg gcgaatcagg cgcacccaag 420
ccgaagagaa gacggcgcca ccataagagt tccaaagggg atggaaatga cgaccacgcc 480
ggtgaaccct caaatggggc agatgctgca acggcttcga acgaataa 528

<210> 3235
<211> 363
<212> DNA
<213> A.fumigatus

<400> 3235
atgggtgtcg tcgcatcgcg gtcttacgta tgtggatggt ctctccctgt ccctatgtct 60
cctcagctga caggaggcct tgaatctaga ttcgagaact ttgacgaata tacgcgacgc 120
caatacaatg ccaaagctcc ccatctgccc aacccccttcg gttacgacga ggtcccgaac 180
aagttctcgg agtttgatgt attccaaaag cttcgtgttc tccatcaact gtccgtttgg 240
acgttttgga accccgatcg cattcgcgag aagatgccag agcagaaaga gattgaccaa 300
acacaatggg tgggtaaaat cccgccatca gcagtcgatc ttggtcttcc acagagatgc 360
tga 363

<210> 3236
<211> 333
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (11),(296)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3236
gatatacctt ntacaggctg ctcctctact attagaaata tagagttcat caaagcatta 60
cctagcataa ctattactaa gcttatagat ggcatcacag ttttaggcat tagatcccgt 120
catcgatcaa accattctgc tatgctaaca ctatggttcc ctagattaat gaataatagt 180
ggttctgcaa acatatttgc taagattacc atctattact atttagttaa tggcctgaag 240
cctaagctac ttattagaac taatatcatc tgcagtgaag gatttatact taattntaaa 300
catagcattg caataattag ttcttatagt taa 333

<210> 3237
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3237
agatctcttc tactagtata tttagttagt aaactagtag tatatttaaa gactaattta 60

ttagctaact ataactttat ctttaaccta ctagataaat caaccttaaa tagagctact 120
atatatgtgt atataattaa ctataaattc tcctttatta aagtctgtaa taaaacacct 180
actttaatta tagttactta ttatacttat atagggacta tctctaatac taactttatt 240
actgcctact aa 252

<210> 3238
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3238
tataaaaata tgtacttgta ttctaacact ctatccaggt gcgaatactt caacacgact 60
ttgtatcaaa ccatgcaact cgctgagaat cttatagcgc caagtcgtcc aacaatgcta 120
ataacaaaaa aaaaaaaagg gggggggggg gggggaatg agatcgaggc atcaatcagt 180
atgcaattat tcaacgccgc ttatgcaaaa ggaatcaaga tgtcagagag gctctga 237

<210> 3239
<211> 525
<212> DNA
<213> A.fumigatus

<400> 3239
ctgatttctc gacaatcttt atcactcctc tctccgaccg cacctcgcct tacctcactt 60
tcacttcacc atccacttaa ccaacatcac gcacatacaa tggcatcgcc agctcaagcg 120
caggctccgg catcgacatc gaatcaacct ctcacacctc cagccgaacc ctcatcaaca 180
aataatacag cgaacaccac cgcctcgcaa ccacctcacc ctacgggaac ctccaccacc 240
gcacccaaca cagcgatgcc ctccacaact ccccagccaa cgcagatccc atcgacgtca 300
ctcacagaca gcggcaaatc acggcgccca cgcgatgtcc gcctaatcca catgcttctc 360
gcctccctcg gggtaaccgc ctaccaagag cgggtcccgc tccaactcct cgatttcgcg 420
taccgctaca cctcatgcgt tcttcatgaa gcggtccatc ctcggacgga aggctacgca 480
ggcggcccca gaaaccgggc cgagcagcaa tcgtgggcca gttga 525

<210> 3240
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (73),(233)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3240
cagagtatgt gcgaattaat attccactca attgccaacc tggtcggtag ctgctggttc 60
aggttcattg tanacatatt ggatgctcaa aagcgaattg ggacggcgga catttcctat 120
tccggtgtga ttccatcgga ggaagaaaac cccgctcgtc cttctgttta ccccggactt 180
gacaacgtcc ggcacagtct ccacaaccaa aagtgggggg gtccactaat gangagtatc 240
atttga 246

<210> 3241
<211> 435
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (307),(308),(309),(330),(331)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3241
acgcaacatg caccctctca tccggttgca tctgcttgcc ccctttccaa agccccaaac 60
cccaaaaagg gggaaaaagg ggaaaaaacc ccccgttttt ttttgggggt tttttggggg 120
tttaaaaccc cggcccccgg gcccctttta aaaaaccccc ccaaaagggg gggggggcca 180
aattttcccc ccccaaaagg ccccgggccc aaaatttttt tggggaaaaa attttccccc 240
cccccccggg gtttgtgccc ccccccccca aaaaaccggg gggggggggg ggtttttttt 300
ttttttnnnc ccccccctcc cgcggccccn ntaaaaaaaa aggccccccа caaaattttt 360
tgggggcccc cccccggccc cccccggggg gggggggaga aaaacaccct ctttttttt 420
tttgtttggg gggcc 435

<210> 3242
<211> 321
<212> DNA
<213> A.fumigatus

<400> 3242
gccccgggtg aagacctgtc gggccgcatc atcaacatcc accacagctt cctgccgagt 60
ttcaagggcg ccaagcccta ccaccaggcg tatgaccggg gggtcaagat cattggtgcc 120
acggcgcact ttgtgacgag tgacctggat gaggggccga tcatcgagca gaatgtcgta 180
agggtgaacc atgcgctgag tcccaaggag ttgacgcatg cgggcagcaa tgtcgagagt 240
aatgtgctgg cgacggcggt caagtatgtg accgagcgga gggttttgct gaatgggcac 300
aagacggttg tttttgctta a 321

<210> 3243
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3243
tcatgcaggg atcaactgta tactgatatc aagatcaatg acaccctctg cgaacgatac 60
cagactcaca tggctcgtta tggacggaag atcaccaaga gccatgacaa ggtcatgacc 120
ggatcgtcag acataggtag gttttttttt ttttttttt ttgtgtcctc cagcactgac 180
tacagctga 189

<210> 3244
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3244
gggactcttc cagacggcaa agaagcaatg ggagatggcg atcgtggagt gatcttttc 60
ctgagtacag agtacttcca acgcgtctac tatatgcaaa ctgcccctcg acgccttcct 120
ttcgacatca acgcatcctg tcctctcaag cccatgaata gcgccattgg catcagtagt 180
aaggatgacg attcactgga atag 204

<210> 3245
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3245
tcgactgcca tcctttggca gagcgccagg cacagagtag tatccaggtt gtctggagtg 60
acccccgctg gacgtaccgt ccctttcgaa agtccctatt tctccacagg catctggacg 120

attatgtcca tgacccagac cctggtctgc tacgaaaagc tccaaagaat atctaacaaa 180
ctgtcgctgg gtattctcta a 201

<210> 3246
<211> 270
<212> DNA
<213> A.fumigatus

<400> 3246
tctatgacat gcaaaagtgg gaaaaaaaag gtaccttggg ttttactgtt gttcctgaag 60
cttgtcccat tctgtaaggc accctactct ggcttctgga aatatctccc agggtttctg 120
cataacttga aaaatcaaca accacgcttg atcgtcggca caatcagcga ctgtcttatc 180
agggcattga ttggcttcgg actcaaccgc caagacattt gtttacttgt tatctacagc 240
cttggtcaat ccaatgtcag ggaatcctga 270

<210> 3247
<211> 429
<212> DNA
<213> A.fumigatus

<400> 3247
cgagtcttat ctcgcattat ctcgatccta accccattaa caggtcaatc gctcacaatg 60
tccgtccacg ccaatggaaa gacgcctacc catgccttta gtcggtctcc ctttcgcaca 120
cgcagcaact tccaagatgc gtgtcgagcg ctgctcgatc cgctcgtccc gcgcttcaca 180
ccgggctgca gtcgtgtgaa gatcggctcg tcagcgaccc ggttcgatga aggtggcgct 240
cagatcgagg gtttcgcgcg ccccctgtgg gccctgggat ccttgctggg cggaggctat 300
gactatgctg aggcagctcg ttggcgcgag ggctttatca gcgggactga tcccgaccat 360
ccggagtact ggggcgacat tgaggatatg gaccagcgca tggtggagat gtgtcctatc 420
gggtttgca 429

<210> 3248
<211> 360
<212> DNA
<213> A.fumigatus

<400> 3248
cctgtcggaa atagattttg ggaggccctc tcaggaatat gttcgcggac aattcagcat 60
cctgactctc aagtcaatcg tctctgcatc actcctgaca agcgctacct agcggccgcg 120
ggacacaaca atgtcaagct ctatgatatc aagtcaacca atccgaatcc agtcatgaca 180
tttgacggtc acacgaacaa catcacagga gtcgcattcc attgtgaggg gaagtggatg 240
gttaccagct ctgaggacgg gacggtgaaa gtgtgggaca ctcgtactgg aagcttgcag 300
cgcaattacg cacataaatc tccagtgtct tcaccacggg gctggagagc gtccgtctag 360

<210> 3249
<211> 735
<212> DNA
<213> A.fumigatus

<400> 3249
ccttcttccg gggctttgtt tttcccccaa tcaatccacc cccctaacac ggatcctgta 60
ggagacgccg acgccttcgg ccacatccgc aagaaggagc tccaacaaag cgccaaacac 120
ctcggcctcc gcgccgattc ggacgtcttc atcgtcgacg atcccgcccg gtttccagat 180
agcatgacag ccacctggtc cgagagcgat atatcctcgt tgctcgcgtc cgcctttgcc 240
cccgatctcg cctctcagtc gcagtcatcc gcagtcaggc atcgggtgcc tggaacgggg 300
cccccaaccg caaccatcga cgtcctgatc accttcgaca aacatggtat cagcaaccac 360
cctaaccact gctcgctgta ccatggtgct gtgcacttcc tccgggcctt gatgaaggac 420

aaggcggggt atacgtgccc cgtgacgctg tacacgctta ccacgacgag tatcctacgg 480
aagtacattg gggtgttgga tgcgccgtgg acgatggcga gcggggcgct ggggtcgatc 540
tttgctggtg cggctaaggg cgggaaggag gatatgccgg gtaagctgct tttcatcagt 600
gcggtgaatg agtatcttcg cgcgcaggcg gctatggtca aggcgcataa gagccagatg 660
ctctggtttc gctatgggtg gattacgctg gggaggtata tggtggttaa tgatttgaga 720
agggtaaggg tatga 735

<210> 3250
<211> 534
<212> DNA
<213> A.fumigatus

<400> 3250
gctgaacgta cttccaggct tccagacggc ttttcctacg ccgaaggagc cctcctcgag 60
cctctctccg ttgtcatgcg cggcatccaa gtggcccgcc taaatctcgg caggggagtc 120
gtagtgtgcg gcgccggacc catcggtctc attgctcttg ctgcagcgcg cgcatcaggc 180
gcccacccga ttgtcataac ggacgttgag ctgaggcggc ttgcgtttgc gaaagagatt 240
gtgccgagct gtattacata ccaggttgat ctcgcgaagg atgcgcagga caacgcactc 300
gctattaggg ccctcttcgg agacagcgag tacgttgcgc cagaggcggt gcttgagtgc 360
acgggggtgg aaagtagtgt ttgtacagcg gcgtatactg cgcgccgggg tggtgtggtg 420
gttgtgattg gtgttgggaa ggcgactatg aataacctgc cctttatgca catgtctctt 480
gcagaggtga gattcactct gaatcttggg cgaatccgtg ctaacgatgg ctag 534

<210> 3251
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3251
attgatctgc ggttcatcaa tcgatatcgg gacacttggc cctcggccat tgcatgcctc 60
agtggtggga ttttggacct gaggaagtta gtaacgcatg tctttccctt ggagagggca 120
aaggatgctc tgcatttgtg tgcagatcca cgcaatggga gtataaaggt aatggttgtg 180
gatgaagtcg atgcgagtgt atga 204

<210> 3252
<211> 246
<212> DNA
<213> A.fumigatus

<400> 3252
gatgcggtga aggcgtcacc aaattcaagc caggtgaggc acagcatctc aacatatgac 60
ttacactctg acaattccca aggcgacagg gtcgcagtcg aacctggcgt tccatgtgaa 120
caatgcttcc tctgtaatga tggccggtat aacctctgcg aagacgtaca gtttgccgga 180
gtctatccgt acgcagggac cttgcaacga tacaaagtcc atcctgcgaa gtggctgcac 240
aagtaa 246

<210> 3253
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3253
tattttcatt ctgcggtact ttgtgttctt ggactagttc tacacgcgaa tgtggaaaag 60
ggctatagta acgagcgttg ccacctgttg tcctctctgg aggagaaaca gtgtatatta 120
ttctcccact acaggtcata cactcgcatc gacttcatcc acaaccatta cctttatact 180
cccattgcgt ggatctgcac acaaatgcag agcatccttt gccctctcca agggaaagac 240

atgcgttact aa 252

<210> 3254
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3254
ccaatggttt ggccagcatg gtctcgttat acagtctttt tgacccctgt ctggtattat 60
atctgttggt ctggcttcag gtccatctct tctaatatgt gggttgtctc actcacagga 120
taccaactgc ttttgaagcg cacattggat gaaccgctgt ctttcactga caatcaagcc 180
tag 183

<210> 3255
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3255
gaggacgagg ccaaggtcag ccagatagaa tggcggcacc agctggctac tatggatata 60
gaagccatca cacagcgcat gaccagccag cccactatgt ggtttcaagg ggtccaggac 120
cctgccatgc gggccatcca gcagggggag agccctgtta ttgcagtgat gcccactggt 180
ggtgacaaga gcatgtgttt atag 204

<210> 3256
<211> 726
<212> DNA
<213> A.fumigatus

<400> 3256
gactggctgg atcctactgc acccccaac gccccgtgga agggtaccac agacgcgaaa 60
ctggtcgcaa acgcctttct catccgtagc ctggacttga tgtgcaagat ctctcggatt 120
cttgggcaag atactgatac atcccgcttc gtacgctggt ccgagtcatc acggaaagaa 180
tttcaagacg agtatgtgac tgcaaatgga cgcatcgtct tcgactccca gactgcatac 240
gccttggcca tctgctttga cttgttgaaa cctagtcaaa aaaatcatgc tggcggccgg 300
ctagcatatc tagttcgtaa gaaagagttt aagatcggga ctggctttgc tggaaccccg 360
tacgtctgtg aagcactggc cttgactggg aatatccagc tcgcgtatgc catgctcctt 420
gaggagagat gcccgtcctg gctatacccg gttaccatgg gtgcgactac ggtctgggag 480
cggtgggata gtatgcttgc tgatggatcg gttaatcctg gtgaaatgac ctcgtttaat 540
cactacgcct ttggcgcgat tgcgaagttc ctgtatgaac gggttgccgg gctgcaacgg 600
gttgagcctg gttggaaaag gtcctgtgtt gctcctggaa ttggagcgga actctcgagt 660
gctgctgctg agcatctcac gccgttcggg ttgctgtcgt gttcatggag gaccggaaaa 720
aactaa 726

<210> 3257
<211> 219
<212> DNA
<213> A.fumigatus

<400> 3257
caacgatctc agatggtcga cgcgatcagt atctctatcg gttctctctt tggctcgccc 60
cccgtgaccg cctttgtcga aagtggtgct ggtatctccg agggcggaaa gacgggtctt 120
acctcctgcg taacaggtat ctgcttcttt atcgccgtct tcttcgcccc catcttcgcc 180
tctaatccct ccttggggct actggctgca cgctggtga 219

<210> 3258

<211> 453
<212> DNA
<213> A.fumigatus

<400> 3258
tccctccttg gggctactgg ctgcacgctg gtgattgttg gcgccctgat gtgcaaggca 60
gccgccgaga tcaactggcg ctactacggc gacgccattc ccgccttcct gaccatcgcc 120
atcatgccct tcacctactc catcgcctat ggtctgattg ccggtattct gagttacgtc 180
ctcatcaata ccacagcctg gctcattgag aagggctccg tcggtcgggt ggtgcccccg 240
aacaaggacg agtcggaccc ctggtcgtat aaagtccccg gaggatttct ccctccctgg 300
ctgcgacggg ccgctcgggg caagaaggac ttttggcgcg aggacgagga ggaatcggtg 360
gatatgggag tcgtgcctgg gggatctgtc tcttcgcatg accggccgga gggagagaag 420
agtcaagtgg gtgtaggaaa caaaagcctt taa 453

<210> 3259
<211> 324
<212> DNA
<213> A.fumigatus

<400> 3259
gctctacccg aattgccaca atctatgcgg cgtttctttg catgttatac tcattatcag 60
ccaggtgttc ctaactctat cgctaccagt tgctctggca atctgttgga tattcccgac 120
tggtgtacat atagcattta ttgcagcatt tacctttttc acgatggtaa tagtccggct 180
cctgaatggg ccgccaacag gcaggtccct gatcggtatt ccgcaaacaa gggatccggt 240
caacgacgaa accgagccgt ggttttttat caacggaata gccaccgggt attcagtatc 300
cagccaggaa agaacccctg ctga 324

<210> 3260
<211> 423
<212> DNA
<213> A.fumigatus

<400> 3260
attgagtcag gcctcgttcg cgatcgaatg gacgaattca aggccgtgag gaagcagacc 60
gtcgacaaag ccacactgga gatttctcgg ctggaaaagc gactgacacg actcacccag 120
ctattagcga gtctacctcc ggatcagata caaggggcca agcgctggcc aatctcatgg 180
caaaacgacc aacggaaagc gctcgagcag actattgtta gctggcagga cgacgctggc 240
gtacctcgct gtcccttctg tcagcaggag ttcaccagtt ataccttcg aagacatcat 300
tgcagaacct gcgggcgggt tgtgtgcggt gaccctgcga ctggatgttc caatgaagtt 360
cctcttagta taacgccttg tatgttaaac cctttggcct tttgtgttgt tatcttacgc 420
taa 423

<210> 3261
<211> 540
<212> DNA
<213> A.fumigatus

<400> 3261
atttcagaag ctgctcgcaa cgttgcagta tgttacaaat ctcgatcatt actgctatat 60
ctaacatcat tctttcttgc cagagatcca aggcggcccc cttctgcggc gcagattgct 120
gaagcctcga aagtccgcaa gcgacttact gattccttcg ctcagtatga tgttgccgcc 180
aggcgtattc gtgatatgcc aaccgactca ccaacacaac agcggcttca aaaggccata 240
taccaacaag ccactaactt cttgcacctt cacatgctgc cgctgaaagc tttgcccaag 300
attctcaagc acgctacacc aaacgggcga cccgcaagcg ctgccagttc aattgcgact 360
ccaacgaatt ctgcagtggg tgatcaccga ccaagagagt ccgctcttgc atccatcaag 420
tataacggta tagctgctag cgggagtaat actagcctaa caagcgacac gagtagtgca 480

gtctctgctt cagaagcggg tcttcaccac acgggtcgaa gatccgacgc aaagcgtcta 540

<210> 3262
<211> 417
<212> DNA
<213> A.fumigatus

<400> 3262
tggcgcggct ccttccagcc ccgtggtgaa gacaagggca cagagctcta ttcacccaca 60
gatccgggca ttctggtcaa tatctataac gcgctttcga cgtatatagt tccgggtccc 120
acgctcattc ccggggctgt gtcagttgtg cagtccagtt cgaccatcac tgcgtcggga 180
acgccggtaa ctggcagtgg tagtgctccg actaccagtg ccactacaac gctgtccacg 240
acaaccaggg ccaccacgac cacaactacg accacggcgg gcagctcgac ttcagttcaa 300
tcggtctacg ggcagtgcgg tggcagtgga tggtctgggc ccacagcctg cgttacagga 360
gccacatgca cttcctacaa cagctactac tcccagtgca ttccaaccgc ctcctag 417

<210> 3263
<211> 561
<212> DNA
<213> A.fumigatus

<400> 3263
gtggaccaac tcgccccacc ggactgtatt ctggccacca actcctcgtc gtacaaatcc 60
agcgagatga tccagcaggt cacccggaga taccgcgtgt gtaacggcca ctactacatg 120
cctccggacc agaatcatct cgagatcatg acctgcggat acacggatcc ctccatcatt 180
gcatttctga tggagcagtc cgccgcagcg ggattcgtgc ccatccatgc caaggttgaa 240
tcgacagggc tgatcttcaa tcggatatgg gctgcaatca agcgagaatc tctcctagtg 300
atggctgaag gggtgggaac ggccggagat atcgatcaac tgttcaaggg ttggtttcat 360
ggggaggttg ggccgtgtga gatgatggat cgggtggggt tggatacggt gtacaatatc 420
gagaagcatt atgtggagga gagagggctg gatgcgaagc ctatcgagtg gctgaaggag 480
aattacgtgg atcgagggct tctcggacgg aaatctggga agggattact gtctgaagaa 540
agcaatggcc acgctcagta g 561

<210> 3264
<211> 1011
<212> DNA
<213> A.fumigatus

<400> 3264
gaatgcgttt cttacggctc tcgtcgatca tttgatatac tgacaagcac catggacccc 60
tctcgatctc cctctccgtc tttctcctcc ccgccctccg agatccgcat cctcactctt 120
aactgctggg gcctcaaata tctcgccaaa taccgccatg aacgactatc agagatcggt 180
cgtcaactcg ctctcgctga ccctcctccc caaatcgtcg gtctgcaaga atgctggacg 240
cagcaagact acgagagcat ccgccagcaa actaaccaca tcctccccta cggcaagttc 300
tactttggcg gcattttcgg cgcaggacta gccatcctct ccaaatggcc cattgaagaa 360
agcaccatgt acgcctaccc actcaacggc cgacccacgg cattcttccg cggcgactgg 420
ttcgtcggca agggcgtcgc ctgcgcgcgc atccggttcg gaccagaagt cggcgacgtc 480
gcagaggtat tctgcacaca cctgcacgcc ccatatgaac gagaacccaa cgactcgtat 540
atctgtcacc gcacagcaca ggcgtgggaa atcgccaagc tgatgcgtgg cgcggccgag 600
cgcggacacc tcgtcatcgg actcggtgat ttcaacatga tcccctcgag tttcgcgcac 660
cagctcatcc acgcgcatgc gcccgtccgc gatgtctggc aggtcctgca tccggactcg 720
tctgttggcg ctaccatcga cttgcccgag cagaagcgga acaggcccgt gcccacggcg 780
gagttcaacc tgctcgagaa cggcgctacc tgcgacggca ggtttaatac ctggcggtgg 840
agtaaagagg atcgcaagcg cctcgagaaa agagaggatg tggtcgtcga taggactcgc 900
cctgcccccc gggggaaaga gaatggatta catctttggc ggggaacggc ggggtacccc 960
tctgcctatc ccgggccggg agggtccgtc caatccggcg ggttggcatg a 1011

<210> 3265
<211> 663
<212> DNA
<213> A.fumigatus

<400> 3265
gctcttcccc catctcgacg gcaccctcat ggaactcccc aaccaccccg ccggatctct 60
gccacaaagc tccctgaaga gtgtctccta cgccggcggc gccctcgtcg agcccctcgc 120
tgtctgcctg cacgccatcc gccgctcgca cccgcccacc cccgccgaag tggatctggc 180
caccgaacag ggcgaccaga ccgccgcgct gatcttcggc gcaggagcca tcggcctcct 240
cctcgccgct gcactagcca cctcccagcc cttcacctcc atcgtcatcg cggacatcga 300
ccccgcccgt ctcgagatcg caaaatccct caacctaggc ctgaagaccc atctcctccc 360
caaaggcggc aatgccgcca acccaccccc tgcgccggac gcctctgccg cagagcatgc 420
cgcgtacgcc atgcagaatg cgcagcggac cgcagcggcg ctgaaagagg cgaatggggt 480
tgcgtcaggg tttgtgcgcg tgtacgagtg taccggcgtg ccggcgtgcg tgcaagcggg 540
gatctacgct gccagccctg gcgccgtgct cgtgcagatc gggatgggga atccgattca 600
gacgcttccg gtgagtgcgg cggcgctccg ggaggtggat atcatcggca cgttccggta 660
tga 663

<210> 3266
<211> 1278
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1050),(1092),(1116)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3266
cagcatcagg aatcacgacc catctctcct cccaccggct ccgaagtcca agttgccatc 60
cgcgcaaccg gtctctgcgg ctcagacctt cactactaca accacggccg caatggcgac 120
ttcgtcgtgc gcgagccgat gtgcctgggc cacgaatcct ccggcaccgt cacagctgtc 180
ggaccagacg tgacaaccct gcaggtcggt gaccgcgtcg ccctcgacgt cggcctccct 240
tgccgtacct gcaccctctg ccgcactggc cgctacaaca tctgcccgga catgaagttc 300
cgcaacagcg ctaagctctt cccccatctc gacggcaccc tcatggaact ccccaaccac 360
cccgccggat ctctgccaca aagctccctg aagagtgtct cctacgccgg cggcgccctc 420
gtcgagcccc tcgctgtctg cctgcacgcc atccgccgct cgcacccgcc caccccccgcc 480
gaagtggatc tggccaccga acagggcgac cagaccgccg cgctgatctt cggcgcagga 540
gccatcggcc tcctcctcgc cgctgcacta gccacctccc agcccttcac ctccatcgtc 600
atcgcggaca tcgaccccgc ccgtctcgag atcgcaaaat ccctcaacct aggcctgaag 660
acccatctcc tccccaaagg cggcaatgcc gccaacccac cccctgcgcc ggacgcctct 720
gccgcagagc atgccgcgta cgccatgcag aatgcgcagc ggaccgcagc ggcgctgaaa 780
gaggcgaatg gggttgcgtc agggtttgtg cgcgtgtacg agtgtaccgg cgtgccggcg 840
tgcgtgcaag cggggatcta cgctgccagc cctggcgccg tgctcgtgca gatcgggatg 900
gggaatccga ttcagacgct tccggtgagt gcggcggcgc tccgggaggt ggatatcatc 960
ggcacgttcc ggtatgatgg ccatgcgtac ccggctgcaa ttgagttgat ggctagtggg 1020
aagcttgacc atgtccagaa acaggttgtn acgcatcgcg tcagacttga ggatgggaat 1080
tcggcgtttg cnctggcggg gaagggactg gattanactg ggcagccggt ggtcaaggtc 1140
tccattgaaa gcaaaatttg gattggttgt gttcgtccgc catgtttata ccccgttggc 1200
ctattgaggg gcccatcctg ttggactgga gacctacgtt cccccacccg ttatttgttt 1260
tgttccaaat ttttataa 1278

<210> 3267
<211> 408

<212> DNA
<213> A.fumigatus

<400> 3267
tatctcctat ccttcttttc ttctcatcat ctcaattgct ttgtctctcc ctacgctctg 60
ttcttgaaca tcggattctt cttacaccgc gataagagct ctcaccccgc tctccaactc 120
cgacatcatg ccttcggctc tactcattgg tgccatcacc cacgcgcgca aggagtggaa 180
agatctctcg tccattctga ctctaaaggt gagctcgcga ttgtggtctg gtggagtgtc 240
gactctaatg tagtgttgaa ggaatttccc gaaggcacca gagacgagtt catccggaat 300
tgcaaagacg gccagtacga tgatgtggta gtgatttacc gatccaatgc gtctaccaag 360
gtgagcgtgg cagtggaacg cggcgataaa tgtctagtta ctgactga 408

<210> 3268
<211> 225
<212> DNA
<213> A.fumigatus

<400> 3268
gttcagttca ccggtccatt cgacgcagag ttgctctctg tccttcccaa gtcattaaag 60
tatatctgcc acaatggggc tggctatgac aacattgaca tcccggcctg ttcagagaag 120
ggtgcgatca tttatgtcct tctcatacag aaaccagaaa agctgataaa gcacaggaat 180
tgccgtctcc agtaccccag tcgccgtgaa ccacgcaact gctga 225

<210> 3269
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3269
acatcggatt cttcttacac cgcgataaga gctctcaccc cgctctccaa ctccgacatc 60
atgccttcgg ctctactcat tggtgccatc acccacgcgc gcaaggagtg gaaagatctc 120
tcgtccattc tgactctaaa ggtgagctcg cgattgtggt ctggtggagt gtcgactcta 180
atgtag 186

<210> 3270
<211> 321
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (240)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3270
cggagatggc caactctggg atcattgatc cgtctgggtg tccccccgaa ctggcattcc 60
tggtcccgtc caaactcatt ctccaaccgt tggataaaaa tgcccccatt ctgcttcccc 120
catccttgga aggagcgaac catcccttat ctaagcctcc tgaatactct ccggacgggc 180
gagatcaccc cttatccccc tctggttggg ccccctgggg gctttaactt ccttccgccn 240
ccgaaactta accattctcg cgctacattt ccccccaagt gtcctcccca ttttaccgtc 300
tctatttcgg gttatgtctc c 321

<210> 3271
<211> 621
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (37)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3271
cgttacaata gctttgcctg gaagggtgag accgagnagg agtaccagtg gtgcttggag 60
cagcagctca acgctttcaa ggatggccag aagctcaacc tcatcctcga cgatggtggt 120
gatctgaccg ccctcgtcca cagcaagtac cctgagatgc tcaagggctg ctacggtgtc 180
tccgaggaga ccaccactgg tgttcaccac ctctacagaa tgctcaagga gggcaagctc 240
cttgttcccg cgatcaacgt caacgactcc gtcaccaagt ccaagttcga caacctgtac 300
ggttgccgtg agtctctcat cgatggtatc aagcgtgcca ccgacgtcat gattgccggc 360
aaggtcgccg ttgttgctgg ttacggtgat gtcggcaagg gctgtgccga tgctctccgc 420
agcatgggtg cccgtgtcct cgtcaccgag attgacccca tcaacgccct tcaggccgct 480
gttcagggat accaggtcgt caccatggag gaggctgctc cccagggtca gatcttcgtc 540
accaccaccg gttgccgtga cattcttgtt ggcaagcact ttgaggttat gcgtaacgac 600
gccattgttt gcagtaagtg a 621

<210> 3272
<211> 483
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (78)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3272
ctggtttccg cgagtttcgg tggctttata ctgatcaaca cagacattgg tcacttcgac 60
attgagattg acgttgcntg gctcaaggcc aacgccaagt ccgtccagaa cattaagccc 120
caggttgacc gctacctgat gcccaacggc cgccacatca tcctccttgc cgagggtcgt 180
ctggtcaacc ttggctgtgc caccggccac tcttccttcg tcatgtcctg ctccttctcc 240
aaccaggttc ttgcccagat tgctctgttc aaggccgagg acgaggcctt tggcaagaag 300
tacgtcgagt tcggcaccac cggcaagaag cccgttggcg tctacgttct tcccaagatc 360
ctggacgagc aggttgctct gctccacctg gagcacgtca atgccaagct gtccaagctc 420
actcccgttc aggccgagta ccttggtctg gatattgccg gtcctttcaa gagcgatatg 480
taa 483

<210> 3273
<211> 210
<212> DNA
<213> A.fumigatus

<400> 3273
acgccaacgg gcttcttgcc ggtggtgccg aactcgacgt acttcttgcc aaaggcctcg 60
tcctcggcct tgaacagagc aatctgggca agaacctggt tggagaagga gcaggacatg 120
acgaaggaag agtggccggt ggcacagcca aggttgacca gacgaccctc ggcaaggagg 180
atgatgtggc ggccgttggg catcaggtag 210

<210> 3274
<211> 1170
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (439),(1101)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3274
cttggatcag gcacggaaaa agataaggca cacttacata tcgctcttga aaggaccggc 60
aatatccaga ccaaggtact cggcctgaac gggagtgagc ttggacagct tggcattgac 120
gtgctccagg tggagcagag caacctgctc gtccaggatc ttgggaagaa cgtagacgcc 180
aacgggcttc ttgccggtgg tgccgaactc gacgtacttc ttgccaaagg cctcgtcctc 240
ggccttgaac agagcaatct gggcaagaac ctggttggag aaggagcagg acatgacgaa 300
ggaagagtgg ccggtggcac agccaaggtt gaccagacga ccctcggcaa ggaggatgat 360
gtggcggccg ttgggcatca ggtagcggtc aacctggggc ttaatgttct ggacggactt 420
ggcgttggcc ttgagccang caacgtcaat ctcaatgtcg aagtgaccaa tgtctgtgtt 480
gatcagtata aagccaccga aactcgcgga aaccagtcac ttactgcaaa caatggcgtc 540
gttacgcata acctcaaagt gcttgccaac aagaatgtca cggcaaccgg tggtggtgac 600
gaagatctga ccctggggag cagcctcctc catggtgacg acctggtatc cctgaacagc 660
ggcctgaagg gcgttgatgg ggtcaatctc ggtgacgagg acacgggcac ccatgctgcg 720
gagagcatcg gcacagccct tgccgacatc accgtaacca gcaacaacgg cgaccttgcc 780
ggcaatcatg acgtcggtgg cacgcttgat accatcgatg agagactcac ggcaaccgta 840
caggttgtcg aacttggact tggtgacgga gtcgttgacg ttgatcgcgg gaacaaggag 900
cttgccctcc ttgagcattc tgtagaggtg gtgaacacca gtggtggtct cctcggagac 960
accgtagcag cccttgagca tctcagggta cttgctgtgg acgagggcgg tcagatcacc 1020
accatcgtcg aggatgaggt tgagcttctg gccatccttg aaagcgttga gctgctgctc 1080
caagcaccac tggtactcct nctcggtctc acccttccag gcaaagctat tgtaacgtta 1140
gagcttgcct cgtttcaaaa tagcaagtga 1170

<210> 3275
<211> 1512
<212> DNA
<213> A.fumigatus

<400> 3275
attggcgcgg cccttccgcc ccgggtgaag accgagcagc gcacagtgga aactgagtac 60
tatgatttcc tggttgttgc ttcggggtac ttctctcgtc cgtatacgcc ggacatccct 120
ggacttgctg ccctcgccga gaggactatc cacagctccg cgcttcgcag ccttgaagat 180
ttggatgcga ttgttgagaa gggctctgat ggaggaagat tgattgtcat agggggaagt 240
atgtcgggcg tggaggcagc ttcctctctc gcccttcacg tttcctcatt gaggtatgcg 300
ccggggtcat ccgtgcaaac ggatagtttc cccgaggtct accacatatc tagccggcct 360
ttctggacgg tgccgacata tataccacac gcgcagaagg acaatgggac tggcacagag 420
acggtatctc tgctcccgct tgatttacct atgtatgatt tggcccggcg gccaccaggg 480
ccagttgagt atgcctttgg ccctgcctcg gcagcgcagg tcgccaaagt gaacgattat 540
ttccaatcaa ttttaggaga agactatacg aacatcggcc ctggagatat tgggtttaag 600
ggtggcgaag aggagacact gcaaccacgg tgggtagcta tagggaatga ttacgcagag 660
ttcgtccggt caaaagcaat caaaactgtc atcggccgtg tttcagccgt gcatgcttcc 720
tcacctggtc cggcaaaagt tgacattgag ctacctggga aagagagcat gtcgctcgat 780
aatgttgcag ggattgtcct ggctacggga tttaggccgt ttccttcgct cgcgtttctc 840
ccagaagatg ttctctctgc attggagtat tcccccgatg actccttctt cccgctgatc 900
ctagacccaa agggtgcttc taatgccaat atccctgatc tgggttttgt cggcttctat 960
agaggaccgt actggggcgt catggaaatg caggcccgaa gtcttgcgca gacctgggct 1020
ggagacgaca cagagcatgg cattcagttt tccgcgacag agctggagag caaggcacaa 1080
gaaagacaga aagttcgtga ataccggagt gcggatccga atcttcaccg aggacagttc 1140
ccaatgggag actataccgg gctgatggag tcattcgcac gggatctagg tatctgccgt 1200
gctcctttga cggagctcga tgaacgacct ggccctgttg ttccagcacg atatgtcatg 1260
tctggtccag ggaccgccga tatcagaacg agtttgcagg ctctgcaaga gactctgcaa 1320
cctagaaggg aaagtgccag tccagcagtg gccatggcgg tctttcgagc gcttcacggc 1380

agctgggact ttactcgatc aggacaagat ggtatatcat ccggcatttc tacgttcttc 1440
ccacggtatc cgtccagccc cgcttatgag aagtcttcac cacggggctg gaaggtcgac 1500
acgtgtctat gg 1512

<210> 3276
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3276
tcagacctag gcattatctt ctcgtggttt aaggagctgg aggttaacta tggccgcaag 60
aggtatgcaa accctaagag gattgaccat atctcggcat taattatcac gaagtgcggg 120
tggtttccgg gatctccgac ccaactttcg gatgaaaatg tggggaagtg gagtcatttc 180
acggggtaa 189

<210> 3277
<211> 1008
<212> DNA
<213> A.fumigatus

<400> 3277
ggatattcag cgcataactg gccgaaaggc ggaagagatt cgttaacaag aaccagtggg 60
caggaggaac agccaagggc tgggagaatg attcaggata agacgccttc cattctggag 120
gtggagctag tggaaaacat acccattgat gtttccacag agcctggcgc tggtgacggt 180
gagaacagca cagttttcaa tgtttgggtg gacatggata tcccaccgga cgagtggggg 240
accagccctt acaagaatgg gccaccgaag aagtctgtag gcaagaatga agatgacctt 300
ccgctcaaag gaaccatgga ttacatcgag cacgagatca aagacggata cctggagcct 360
ataatcaaag atgtgatcag atctcgatgt ttggagacca aaggctccca aggccccgcc 420
gttgaccgag actcaagacc tgagggaaag gcggaggatc ctaacgtcat ggtcatttcc 480
cttcattcat gtggcaacct tcttcatcat ggtgtcagat ctttggttct caacccgtct 540
gtcaaagcta tcgcaatgat cggatgctgc tataacttgg tgactgagag gttgggcccg 600
gccacataca aggttcccat actccgcact caacatcctc gcttgaccca agatgcctgt 660
gcgtatgacc ctcatgggtt ccccatgtcg aaacgtctgg aatcgtatga acatattagt 720
gggactggcg tgaaactgaa tatcaccgca cgttcgatgt ctctacaagc accctacaac 780
tggggcagag aagatagcga agcgttcttt acgcggcact tctaccgagc ccttctccag 840
cgcatttttg tcgaccgtgg cgtggtagag aaacccgtta accccacgga tctctatgga 900
ttggaaactg gtgcccctga tgcggtagga aatcctttga ttgtcggttc ggtacgaaag 960
gccggcttta cgtcggtttt ctgcatacgt tcatgccgca gtggctaa 1008

<210> 3278
<211> 240
<212> DNA
<213> A.fumigatus

<400> 3278
caagtgccat tttatatgcg atacatgagg tggccattgg cttacaatgg ccacttactt 60
agtgattacg ttaatgttaa gtgctgcctg cgaacgacaa ggtacctaaa tatcaaacga 120
caggataagt tcggatactt aaaatcttac aaggcagtac ctaggcgatc tcgcctcaat 180
ctgtttcagt tgagcatgtt tcccagtttc tcattcaact tgctagtgat gttggcataa 240

<210> 3279
<211> 330
<212> DNA
<213> A.fumigatus

<400> 3279

ggtcactttc cttcaacaac cccctcctct tatcatgtgt gtgacgagat gtacctgttt 60
aacaaaaatc agaggcggct cctagtctat ttcgcggttt tctatgtcct tctctttatc 120
ttttgccatt tcaactccgc gcgcgaccct ggttcatact ttttccgacc agaggaaggc 180
tatcggccgc aatacagcgt caggagaatt ctggagtcgc ggcacttcat atcacggttc 240
aaccagtcaa ccccccaacc gaaacagtcc cttcaaaatc tcacttcggg agtttcacca 300
aggggcccga aggatccgcg aagcgttacg 330

<210> 3280
<211> 621
<212> DNA
<213> A.fumigatus

<400> 3280
gttcaatggg ttcgcaggaa gccaattgcg tgggaatgca attcgacaaa tgttttcccg 60
gtgcccattt acgttcttgg gtttcgtttt tcggcccaca gccaaacagg ggtctgcagc 120
ccggatgact tcgtcggccg cgtgttcgcc agctgtatgg cgatgggccg ttacccgctc 180
cttccaaatc agcggaagga gttcgtacct gtggattaca ttgtgcatgc cttgttacac 240
atatccaagt cgaaagacaa cctaggacat gcttacaatc tggtgcatcc ggacaaaacg 300
catgcaattg atctgtgtac aagcttcaac ctgttgaaaa ccatatgtcc atacccaatg 360
catggggtta cgtacacaga gtgggtgcaa tctctctcac tcagcccaga ggaccctctc 420
taccccctcg ttccgatgct gaaggagaga gttctgggtg agcggacgcg atgggaggtg 480
tacgagaata tggtggagta tggccgcgaa aatctgcata aggcaatcaa ggatgctccg 540
gatatcttgg cctgtggtcc tatggatcag ctttttagcc gatacctgcg ttcctggcta 600
ccgacatcct gtgcaaacta g 621

<210> 3281
<211> 423
<212> DNA
<213> A.fumigatus

<400> 3281
acctttgcca cggaggaatt tgttattcgc ctttttggaa cttggcggaa atgcggggaa 60
gcgggaccct ttttaaaggt ttcattcagg gatgtttcag ttgattgtcg agtttcttgg 120
ctcaaacggt tttcaactgg attctttcgc cgcgtatcat caccctacc atttgcaggg 180
gacaaagaat atttccacct gccttatttt ggaggtgatg cgtggttagc acagcacgca 240
cagtatcaga atcaaatggt tctttccacg gatatggaac gtgttttcga tattggccct 300
gctttccggg ctgaggtgaa gtctcgtacg tcagggaggc atctgaccga ggtgagtaat 360
tcttcctccc caatttggct gtgttttgca tcattgcatg cctgttatga gactcgttgc 420
tga 423

<210> 3282
<211> 765
<212> DNA
<213> A.fumigatus

<400> 3282
tttactttgc taggtacggc tatggtcctg gaggaaaact actatgaagt gatggatttg 60
atggactcaa tgattgtctt tgtcctcaag ggccttcaag aacgcaaaaa atatcgggat 120
cttatcgaaa ttgttcagaa tcactatccc actgcacagg actttcgtat cggtctggat 180
gaacagggaa agattcctcg gatctcattt aaggaggcaa agcgaatgct tcgggatgag 240
ctcggcttca agacagagga cacagatgac ttaaggtgcg cggtgacgtt aaccctactt 300
ttgtgtttct ttttccatct tccagggcta acaggtcatc aaccccgtag tgaagaggag 360
gaagcggccc tgggccggca tttccgcgaa tctccttacc tcggtcaaac tgacatcttt 420
acaattgatc aatacccggc attttgccgc ccttttaata cacatccaag tccggatgct 480
ccaggattca ctaactcatg ggataccatt gtgcgaggtc gtgagatctg ctcaggcagt 540
cagcgcattc acaaatacga ggcggtctgc aaggctatgg cttcccggaa tatggaccca 600

gatggcaagg agtgggagca ttatgtcggg gcgtttaagt ctggtatgcc acctcatggt 660
ggtctgggtt tgggtgtcaa tcggctgctg cagggtttcc ttgggctgga cgacgtccgt 720
gagactacct tgttcccaag agatgtacat agaaccgccc cataa 765

<210> 3283
<211> 342
<212> DNA
<213> A.fumigatus

<400> 3283
agtagtaaca gacgacgacc ccatcaatcg gttgctgcca tcgatcgact tcatcgaaat 60
agatcattgc gttggcaatc agccgtggaa cggtgtcgat ccaattgtca agtagtatgt 120
ataggtatca gcgctgtctc aagggtgaag gttgctaacc atcgtcattt cagttacgaa 180
gactgcctca acttccatcg gtactggact gtagatgact taaacatgtg tggcgaatat 240
tccgccatgc ggtcgatcgt cgtcgcctcc cctaacgaag tgattaagat gcccatgaat 300
gagccagctc agggtaaaaa gaagtcacag atcgaggagt ag 342

<210> 3284
<211> 555
<212> DNA
<213> A.fumigatus

<400> 3284
tacgtgaccc ggatgggatt caagcaaatc gcttatcgcg gtcctgaaac gggttctaga 60
agcgtcgtat cgcatgtcat ctccaacggt caagctatct tcgttctcac ttctcccatc 120
cgttccatgg cagggacagg cgcatatgat gatgatcctg atgttactaa ggcagatcgg 180
agattgttgg aggaaattca caaccatctg atcaagcacg gcgacggtgt caaggatgtt 240
gcttttcgaa ttgaaggcga tatcgaagct gtttggaaaa gagcagtaga ccatggagct 300
gctccagttg cggccccgac aaccttgaag gatgaccggc atggttcaat caccctggcc 360
acgatcggta cctacgagga tacagtgcac tcactgatca atcgtcacga ctactccggc 420
ccctttctac caggctatga agtagtaaca gacgacgacc ccatcaatcg gttgctgcca 480
tcgatcgact tcatcgaaat agatcattgc gttggcaatc agccgtggaa cggtgtcgat 540
ccaattgtca agtag 555

<210> 3285
<211> 264
<212> DNA
<213> A.fumigatus

<400> 3285
aatatttgca cccttgacag ctccatagta cgttcgtcgc gagtgcaacg cagtcgttca 60
atatggtaca ccatagccca tttgcaaggg gccaaaagca ttgtcacccg cataattagt 120
cgcctcgagc ctatcctagc cgattttgtc gcgccaccaa gcggtatgct gatcaaagtc 180
ttgtctctgg accctcaacc aaagcaaaaa gagcaggcta tgcaactagt ggagaaagtc 240
gaaactcgaa acggttctgc ctga 264

<210> 3286
<211> 255
<212> DNA
<213> A.fumigatus

<400> 3286
tggagaaagt cgaaactcga aacggttctg cctgattctt gggggccgaa aactctttca 60
cgtgcgacgg ggaacagttt tcttgcccct cttgcagaca agcaaacatc agtttggaac 120
cgtctcaatt acgcatcctc tgccatgaat tctaagacgg accaaaaatc tgccaacggc 180
tggcagcaat tttctttgga tcatgatgac caagtagcag accgtttctc agaagattgg 240

tccttggcac tgtag 255

<210> 3287
<211> 198
<212> DNA
<213> A.fumigatus

<400> 3287
gtatatcgac ttttcatcgt taaattcttt atctctgcta aagagcctac ggtcgtcgtc 60
aacatgtctg tcctcctcag aaagctcgtc cacaatgagg cgatacggga ggatcccaag 120
gaaatctatg ggtggagagt gtatatgctt gcctgctcgg tcagttgtcc cacaatatcc 180
ctcgtgctca gagactga 198

<210> 3288
<211> 243
<212> DNA
<213> A.fumigatus

<400> 3288
aatgaagctg ttcggatgga cccccgcaaa gatctgcacc ccactgtcca acaccccaag 60
aaaccccaag atgagcccga actaggagat tcagtcaacc ccacaaggct tcaggaagtt 120
actcccgctc agggactgac acctaccgga cctcagctac cccagaaact atccgtaccc 180
cacagcatgg tccccaaaga agccggaact aaaggaactt caaccccaca agtctttgca 240
tga 243

<210> 3289
<211> 546
<212> DNA
<213> A.fumigatus

<400> 3289
ctttcttcag gaaaatgcgg ggtgtttgga gatatatgcc tgtctcttgt tgatgctaca 60
tttcctgggc atttgctcca tacgaatgca gactataaat gcatgctcat tcctctgttg 120
acctttacga agatatcgat tatttctaaa cctcaagaat caaggatttc cctcatcatc 180
tgcagaacaa tgccaaccgt tgccacgttc ctagggctgg ccatctccgg ggcagcgatg 240
gcatcatgcg cagcgctggg tgcatacaac gttgacccaa actcaatttc cgtctctggg 300
ctctccagcg gaggcttcat gtcagcacag cttggagttg catactcgga cacattcaag 360
gtcgggtttg gggtctttgc cgggggaccg tatgattgcg cacgcggtca atcggtacgt 420
catggtccaa atcccagaaa cagtcatttt caatttcaat accccagata tgctgacgcc 480
aaaagcagta cactacttgc atgtacaacc aaaacccatc catcacgacc cccgtcgcca 540
acatga 546

<210> 3290
<211> 294
<212> DNA
<213> A.fumigatus

<400> 3290
aatgatatag atggtgtatc agggttcaag accggtccta ctagtacaag cgcatcgcct 60
catctaaagt ctgccagtat ccagtactat gcatatctat ctgagacctg caagacgtcg 120
gccctgcact tcaccaagag cgcggcttcc gctaatgaat gcgacaacac cggccgcagc 180
gacagctgga agaatctgga agagtgtcca atgggagtag tagaggaaga aagatccatt 240
cgatggaaac cagagatccc aggaaaacag cgtggggaat cggggcagac ttaa 294

<210> 3291
<211> 324

<212> DNA
<213> A.fumigatus

<400> 3291
actcaaaaag acctccccgt tcaattcctc tccgttgccg aacccttgga cgccagactt 60
gtcattggat cgtttggaag ctctcatgcg tacaatgaac ctgccttccc gttgattgtg 120
gcccgcaatc ccgacgaacc agtaccgaca gtggaggttt cgcgatatgg caaactgccc 180
gagattcacc atatcttcaa gtctgaccct cagagccctc ccgttattgt gactctcgtt 240
ttcattggaa tggtgctagc tgcttttcca gtcctcggtg gcctggtgag tcgtttcctc 300
caaacaacgc tgtccatgtt ctga 324

<210> 3292
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3292
tggctcttca ttggcgtcaa cctcaaccat ttgccgaccg cctttaagtc tgccccgatt 60
ccccacgctg ttttcctggg atctctggtt tccatcgaat ggatctttct tcctctacta 120
ctcccattgg acactcttcc agattcttcc agctgtcgct gcggccggtg ttgtcgcatt 180
cattag 186

<210> 3293
<211> 1494
<212> DNA
<213> A.fumigatus

<400> 3293
aaaattttgt taacgcccgt tccattggtt atacctcggt ttgttcccag ttgggaggat 60
tacacccgtg ttttggaatt ggccaaacat tttgagcagt tgagttgcga atttgaggag 120
gagcgccaga gagaaagaca gcaacgagct gcgaagggca cccattctcg ggcgtaccca 180
ttagcatcat caaagccgat tgtggaagtc tacaagaatg ttagagacgc agtggaggag 240
cgagagcttt ctggcgaagg agaggacttc atgccttcga cgacaccacg ccttccgctc 300
aatgagtcga gcatagagag cggtgaatcg ctggagagaa cttcggaaga agaacctagg 360
ggtgaacccg tcttgcagcg ttccagcact catccgtcca cgactgaaga taaagcacaa 420
ggcgatcgcc caactggatc agagggtgag gaggagatgc atagcgatga agatcgagcc 480
ttagccgagg acctccacac gactgactcg aacgatgaac tggctaagct gtctccggag 540
gacgaacagc tcgatctcaa ggagctcccg aaacatgagc gaagcaacct cctgaaaatg 600
ctaacgaatt tctggtcaga gcgctctgcg agcggttggg catccctcga ttatcccctt 660
agcatgtccg atcatgtgtt cgcagattgc gatatcattg tgcgagaaga cgagcctagc 720
tcccttgttg cgttcgcgct tgcctcgagc gattataaag aaaagctagc caatatccag 780
aaacgatatg agcaacttga cgaaaaaaag tcgatctcga aagagggctc ggacgccatg 840
aacgaggcac aggttgaaca tgcactgctg aggtctactg gcactcatct caagtaccaa 900
tttcaggaag ggcaggctaa gatgttatgc aagatattct atgcggagca gtttgacgcc 960
ctgcggaaaa agtgtggcgt ggcagagcga attgtggaat cactgtctcg ttgcgctaaa 1020
tgggattcca aaggggggcaa gacaaactct ctgtttctga agacactgga tgatcggttc 1080
attctgaaat cgctttcgcc tatcgagaca caggcgtttc tcaaatttgc tccggcgtat 1140
ttccagatca tgtctgaggc gctgttccac gagctgcctt ctgccattgc gaagatgttt 1200
gggttttacc aggttattat caagaatccc gccacgggaa cagagttcaa ctggtttttg 1260
ctcttgatgg aaaatctctt ctacgatcga gtgccgacac ggatcttcga tctcaagggc 1320
tcgatgagaa atcgtaaagt ccagagcacg ggggagcgca atgaagtgct tttggatgag 1380
aacatggtgg acttcatcta tgagacacca ctgtttgcca tggaacactc aaagaaactg 1440
ctgagccaaa gcgtttggaa tgataccctc ttcttgggtc gccaaaatgt tatg 1494

<210> 3294
<211> 186

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (149),(157),(158)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3294
tctgcagctt gcacagggac ttatgggcaa cgtaccccac ctatgtgcca ttgctgccag 60
gacctttct ggtctgattc ctacactgca gttatctcca tctacaggcc tactttcacc 120
atcgtcgctg agtccagaag tcttcaccnc gaggcgnnta tacacacagt cattaaaacc 180
cccgcg 186

<210> 3295
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3295
gttcgctata cgcttagcgc ggttccttcg acccccgtgg tgaagatcct ccccgcagga 60
gatataaaac catctatctt tgttaacctg aagaaacata tgatgcactt tgccataggt 120
gacaatgctg agagccacca ggcattaatt ctaactaggg agaaagctag aggctgggga 180
aaaggggtgg gcaggcagta ttga 204

<210> 3296
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3296
cgacccgatc ggtcttatgg ggttactagg ttgcccatgc tttcgagacc tgaggatcat 60
tattactgtg catcttttct gcctgcaggt ggtccccctta aacaatacag ctatgttatt 120
ataccttcat cagtatacaa gccatctctt agtttcagag gcaaggtgta cctctgttat 180
aagtcttgta agtcattctt ctggtga 207

<210> 3297
<211> 243
<212> DNA
<213> A.fumigatus

<400> 3297
ctaaagaccc ctacaccacc aggcagtcaa tcaactaatt cagtgcctaa aacaccctat 60
actactaggc agttagagaa gcaagcatct gcagtgaaaa aactgcttaa ggaacatact 120
caaagccctt ttcctttact agaagcacaa ttagacaaga ttattaaagg ttataaaatg 180
acacttaatg agcttattct tatgcgggat gaaatacgca aacatcgcgc taataatgaa 240
tag 243

<210> 3298
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (87),(129)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3298
ggttcttcct ttggttggaa gcgttttgtt gcggccggag catccggggt tattcagagc 60
gggaacaaag gcgccattgt ttggagntac ttcccacact tttggcaggg cagggtatat 120
tttggacgnt ggatagctct ccccgagatc aatgctgacg tgagcatcaa gcccttccag 180
ccgtatggac gaagcaacat actttgttcc ccccgaggac gataa 225

<210> 3299
<211> 549
<212> DNA
<213> A.fumigatus

<400> 3299
ttttcagtat gtctgtattc cacggtgcat tcgtcgcttt cgtatccgtt gaccatccac 60
gtccgtcact tcttctgcgc atatgatcag gactacgttc gcgtagtctc gcggcgtctc 120
actaacttcg tcctctcgac gctccccaac cccactggtc catcacagct catcatcatc 180
ggctgtggtg actcccaacg catcgtccct tatgtatcgg agactgcagc cgcgttcccc 240
atctacacgg accgcatggg gaagatctac aagaagctgc tcatgaagag gacgacgtca 300
cacatcactc aaccgccctc ttatgcgcag gtctctttct tcggtgcgct tgggaagaca 360
ttcggacaga tgtttcggag tgggtggcag gcttttcgag gggggagctg gagccagaac 420
ggcggcgagt gggtgtttcg agggggcaag agtttctatg tccatcggat ggagcatgtc 480
tcggatcatt tgaccgcgga ccgattgctt gaagtgctca gccttgatga gccggctcaa 540
acgaagtag 549

<210> 3300
<211> 531
<212> DNA
<213> A.fumigatus

<400> 3300
gataccgatg gtgggcaatg gatggggagg gttccaggct gccccgacgg cgccgtggag 60
ctccaacatc gacacgccga gtatcgcgag ttgtacgtgc ggtggctcca gtgggcgacg 120
ttgctgcctt ttatgcgaac acttggatcg aggaagtgca atgtgcagaa tgcgcacaca 180
tgtaacaacg agtggtggtc gtatggcgag gagaacacgc ccatgattgt ctcgtacatc 240
cagctgcggt accagctcaa ggtgtatctg caggctctct tcgagcaaat ccaccatact 300
tacgacgccg ctgtgtatgg atttcgaacg gacagatccg cagatcgcga agatgacgcg 360
ggagaatgtc aatgctacca cgcagcagta catgtttggc ttgcggctgc ttgtcatccg 420
gtgacgatac ccaatgcacc gagtgggagg tgtatctgcc gcagaagggc cagagtgaga 480
caaagccgtg gacgtacagg tggacaaacg agacatatgc tggtggactg a 531

<210> 3301
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3301
ttggtggctt tctctctagt cgttccctcc ggcaatgatg accgttcctt caactggtat 60
gcgagtggag acactcacca agctcgtggt accattcagg acacgataca gccagataat 120
acctggcagc agtctgcccc gaacgaatgg catgaccaca gcgtttctct tgggtcaatg 180
gagaccgcaa gctacgggac aagtgaacga gggttatact ggctatggga tatgtcatgg 240
aatggaaccg agtcatag 258

<210> 3302
<211> 480
<212> DNA

<213> A.fumigatus

<400> 3302
agcagactcg gctctgcgct gaaatacggg gccacgcata cataccagat gacacccgac 60
tcctcggagc agaatgcaga agagatttta aataaggtgg aactggagac aggtgccgat 120
gttgtgctgg atgccaccgg tgcggagcct tgcctgaact gcggtatcca tatcctcgct 180
tctggtggaa cgttcgtcca ggtgggcttg gggaagccaa atccttcgct tccggtctgt 240
cagatctgcg acaaggagat cgtcttcaaa gggagttttc gctatggccc tggggattac 300
cagaccgcaa tcgagctgct ccactctcgt cggattagac tagatggcct ggtcacccac 360
gaatttccgt tcactcaggc agaagacgcg tttcagaatg tcgtcagccg agcagggatc 420
aagagtgtca tctacgggcc tggtgtagac gagcatgtag cgaaacccac attgacatag 480

<210> 3303
<211> 678
<212> DNA
<213> A.fumigatus

<400> 3303
acggctatga ttgtagctta cttctttcta gataaacgcc tccatgttaa gatctatgac 60
gccgatgagg aggtttacca agtccccgag tcggttctcc ctcgcgtgga tggcaaaggt 120
ggatcgagca agaagtcggc gctcaagttc gactatcagg cgaatccgtt ctctttcaag 180
gtcaagagag gcggcgaggt gctcttcgac acctccggtt cgaatctgat cttccagtcg 240
cagtacctga gcctccgcac ctggttgccc gaagatccta atctctacgg tcttggcgag 300
cacacggatt ctcttcgtct ggagaccacc aactacacgc gtactctgtg gaaccgtgac 360
gcgtatgcta ttcctgagaa gaccaacctg tacggcactc atcccgtgta ctatgaccac 420
cgtggccaac acggcaccca cggtgtcttc ttgctgaact ccaacggcat ggacattaag 480
atcgacaaga ccaaggatgg caagcagtac ttagagtaca acactctggg aggtgtcttt 540
gacttttact tctttaccgg tgccaccccc aaggatgcca gcatcgagta tgcgaaagtc 600
gtcggtcttc ccgctatgca gtcctactgg acgttcggtg tacgtttccc tgattcgatc 660
tgcggtcctt ccggctaa 678

<210> 3304
<211> 483
<212> DNA
<213> A.fumigatus

<400> 3304
ccctatacag gtgccgtctg gcctggtgtg actgcgtatc ctgactggtt ccaccctgac 60
atccaaaagt actggaacga ccagtttgcc aaattcttcg accccaagac cggcgtcgac 120
atcgacggtc tgtggatcga tatgaacgag gccgccaact tctgcccttа cccttgcagt 180
gatcccgagg gctacgctag ggataacgac ctgcctcccg ccgctccccc cgttcggccc 240
agcaacccgc gcccgttgcc cggattccct ggtgatttcc agccctcatc ctcgtcgaag 300
cgctccacca agggatctaa agttggactg cctaatcgtg acctgatcaa ccctccgtac 360
atgatccgta atgaagctgg ctcgctcagc aacaagacca tcaacaccga tatcattcat 420
gctggtgagg gatatgccga gtatcttcac cacgggggtc gaaggaaccg cgctaagcgc 480
gca 483

<210> 3305
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (12)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3305
attgggcacc cngaggtcgg attcttccgg ccccgtggtg aagacccaat atgtagagag 60
ggtcgcgatt ccttaacggc ggatttgacc ttggccggta aaccgtgcaa cacttacggc 120
accgacttga agaatctgaa actccttgtt gagtaccaga ccggtacgtt ttcagcgtta 180
aacggctatg attgtagctt acttctttct agataa 216

<210> 3306
<211> 288
<212> DNA
<213> A.fumigatus

<400> 3306
ttccaccaat gcagatacgg ctatcgtgat gtctttgagg tcgccgaggt tgtctacaac 60
tacagccagg cgaagattcc actggagacc atgtggaccg acattgacta catggacaga 120
cgtcgggtgt tcactcttga cccggagcga ttcccgctcg agaagatgcg tgagttggtg 180
tcatatcttc acaaccacaa ccaacactac atcgtcatgg ttgacccggc cgtcagcgtg 240
agcggtaagt ttacctttcc aagtatggag ggggtgggtg catattga 288

<210> 3307
<211> 816
<212> DNA
<213> A.fumigatus

<400> 3307
accgctccga caccagctac acgacactta cccaacatga tccgtgtgct catcaccggc 60
tccgctgacg gcctgggtct cgaggccgca cgccaactgg cgaaccgtgg ccacaccgtc 120
tacctgcacg cgcgcaacga gaagcgcgct gctgatgcga aagccgcctg tcccggcgct 180
gcgggagtgc tcattgccga tttatcgaat ctggctgaaa cccgccggct tgccgatgaa 240
gccaacgcga tcggccaatt tgatgctgtc attctcaacg ccggcatgct gtacgggccg 300
ttccgcaaga ctcccgacac cggtatcccc gccatggtgt ttgtcaacgt ggtggcacca 360
tatatcctga cctgcttgtt gcgtcgtcct aagcggctgg tattcatctc ttcgcagttg 420
caccgccagg gtgacgctag tgtggaggat attttctggt tcaagcgcgg cgaaggaaga 480
ttccaggact tcccggcata ctgtgactcg aaattgcatg tccttctgct tgcaaatgcc 540
gtggccagaa ggtataaaga tacctccgtg gtcagtgtac acccaggctg gatagccacc 600
aagctcgggg gcgaaggggc acctgataaa ctggaagatg gggtagatac ctacgtgatg 660
ttggcagagg gggattacga ccgaaacctg accggaaagt attttgagcc aaagagagta 720
cttggacgtc cgttgccagc ttcggaggac atcaacctgc aggagaaagt ggtcaaggct 780
tgtgaagagg tgactggtct gaaactttcc gcgtga 816

<210> 3308
<211> 957
<212> DNA
<213> A.fumigatus

<400> 3308
tacgcgttcc cttccgtccc cggcggtgta agacatgagg gcatcctagt cgccctcatc 60
acccccttca cagacgacca gaaacatatc gatgcggcct gtctcaaagc acacatcgac 120
cgcctcatcg cagccggcat ccacgggctc gtccccggcg gcagcactgg cgagttcacg 180
accatgacga ccgccgagcg caaggagctc accgagctat gcatcaagtt cgccgccggc 240
cgcgtcccag tcgtcgtcgg cacaggaagt acctccacgg ctgaggccct cgagctagcg 300
acgcacgcag cctccgtcgg tgccgcagcg ctgatggtcg tgccgccgtt ctacgacccc 360
gtcagcctgg agcagttgac tgagctgatg gcggagatcc ataccgcctc gggtctacct 420
attatgtact ataatattcc tagcgcttcg ggtctgaagc tcactcccgg cgagatagcg 480
ggattgtcga aagttggcgt caagtatcta aaggatacgt cgggggatgc cccggccttc 540
actgagttgg tcttcgggct ttcggataag attaccgctt tcaatggcta cgacaccctg 600

accttctacg gacttgcggc tggttgtccc ggcggggtat ggggagcggc caatttcatt 660
cccgagctgg cggtcgagct gtacgagacg gtctcggtga agaaggacct gaagcgaggg 720
cgtgagttgt ggaccaagat ctggcccatc tgcaagtttt tggaatcgca taactatgca 780
gccgcggtca aggctggagt ggagctgact ggacaagaaa cgggggggtct cagaaaccct 840
ttcaagtccc ttggtcctga attgcaggca gagctgaagc agttgctgat tgatgcgggt 900
gtaagcacgg tacgaatggc tagtcttcac ccggggtgga agttcgacgg tgtctga 957

<210> 3309
<211> 558
<212> DNA
<213> A.fumigatus

<400> 3309
caatctaccg ctttttcagt caaccagcat ctagtgagct atcttgcgct gtattccgat 60
gtccgaaatc cgtaccgtga tttgaccttc ttggttggcg attctcctgt cctcgctcat 120
gctcttgctg cgacaggggc tctgcatcac gcaatcttga gaaatctgga gttctcattg 180
ccctggtccc catacacggc gggagatggc ggcacggcgc tttctccgga agaggtggag 240
cgagctgtga taagttccat ggccaggcgg ccttcttcca aggactatga acactttctt 300
ggcttcaagc aacgcgctct tcgtcagctt tcgcttgaca tctgtgatcc aatcatgcgg 360
aacgataacc ggacattggc agcaattatg gttctcgctc tcatggacgc tatcgagtca 420
ggagacggtg cgtggaagta tcatttggaa ggagcgaaga aattgcttaa gagccggcaa 480
caatcagagt ctccgactca ggcgcagggc atgatgaact ggctggacac ctttgccatt 540
gatggctgtc tcctgtaa 558

<210> 3310
<211> 348
<212> DNA
<213> A.fumigatus

<400> 3310
tcaataattt ccagaattca attaatggga tccacccttg cgcgccccgg ctctctcaca 60
cagcctttct attcctccac catgggccca gcggttttaa agcgtctgga agagacctcc 120
tgggtcggtt gcccagccta tctgctcgaa gtcatcttct tcgtcgaggc tggacatttc 180
atggctcctg gcaaggatcc tttctcgcaa cacacaacgt cattttcctc ggtctttctg 240
cccgatgact ccaagccgct ccaatctccc gaggccctcc tcgggcacat acaagccttt 300
gacccggttg cgtgggccga atcaatgcag tcttgtctct atctcgag 348

<210> 3311
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (106)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3311
aaaggaatct gcgatcttga gatctctctt ttgcttgaga gcaacttgac gatggctgca 60
gtcttttcag acaacgataa caatctggat gggacgattg gcgaanaggg tccatcaaag 120
tcagaagtcg tcgcagaaac cattcgcaga aatgagatgg ccttcttcgg ttcaacggga 180
agtccccaga aggcacagtt ctttccaatt gctaagggca actggtccaa cgtctggagg 240
gccaacccc 249

<210> 3312
<211> 267

<212> DNA
<213> A.fumigatus

<400> 3312
aagatcaaat attttgatac agtccatatc gcatccagtc tgttgattct aaagagtggt 60
ttcctttacg ttgccagtga agcaggaaac catcacttct accaattcga gaagctggga 120
gacgacgacg aagagactga attcaacagt gaaaactttc ctgcggatct ctctgttacc 180
tgtgagccgg tgttcttccg accgagagga gctgaaaacc tcaaccttcg tagagacgct 240
caactctctc aacccttga tcgatag 267

<210> 3313
<211> 1260
<212> DNA
<213> A.fumigatus

<400> 3313
agagtggttt cctttacgtt gccagtgaag caggaaacca tcacttctac caattcgaga 60
agctgggaga cgacgacgaa gagactgaat tcaacagtga aaactttcct gcggatctct 120
ctgttacctg tgagccggtg ttcttccgac cgagaggagc tgaaaacctc aaccttcgta 180
gagacgctca actctctcaa ccctttgatc gatagtaaga tcgtgaacct taacgaggac 240
gatgctcctc aaatctacac tgtgtctggg agtggcgccc ggagcagctt caggaccctc 300
aagcacggtc tggaagtctc cgagattgtg gaatcggagc tccctagtgt gccttctgcc 360
gtttggacta ccaaattgac tcgtgctgat gagtttgacg cttacattat tctttctttc 420
gcaaacggta ctttggttct cagcatcggt gagaccgttg aagaggtaac cgacaccggc 480
tttctttcca ctgcacctac tttggctgtt cagcagctcg gtgaggattc gctgattcag 540
gttcacccga gaggcattcg tcatatcctt gcagaccggc gtgtcaatga gtggcccgct 600
cctcaacatc gttcgattgt cgctgctgcg acaaatgagc gtcaggtagc ggttgccctc 660
agctcaggtg aaatcgtgta cttcgaaatg gatgccgatg gaacgctcgc tgaatacgat 720
gagagacgtc agatgtctgg tacagtaaca tgcctcagtt taggcgaggt gcctgaaggg 780
cgtgtgagaa gttctttctt ggctgtcgga tgtgacgact ctactgttcg cattctgagc 840
ttggatcccg actcgacctt ggagaataag tcagtccagg ctcttacctc ggctccatca 900
gcgttgaaca tcatgtcaat ggccgattca agctcaggag gtacgacgct gtacctgcac 960
attgggctct actccggtgt ctacctccga actgttctcg acgaggtgac tggtgaactt 1020
tccgatactc gtacccggtt cctgggagct aagccagtca agctattccg tgtttccgtc 1080
aaaggacaaa cggctgttct cgccctcagc tcccgaccat ggttgggcta ctccgacatc 1140
cagacaaaag gtttcatgct caccccgttg gattacgtgg gcttggaatg gggctggaat 1200
ttctccagtg agcagtgtgt tgaaggcatg gttggtatcc aggcacagaa tcttcggtag 1260

<210> 3314
<211> 240
<212> DNA
<213> A.fumigatus

<400> 3314
acaaccttga agcgcctggc tatttatgtc ggagtcaagg aacccgccat gtgcacgcac 60
tgcgtgatca tggattacat catcacctcc tgcggcacgt caaccgccaa cacatccacc 120
ccaccctcaa tctgcgactt ggatggcatg ttgccccgcc gcatcaactc ggcgcacttg 180
gacataatgg gatccatgcc catcgtcgcg accgccacca cggtctcgcc cttgcagtag 240

<210> 3315
<211> 1281
<212> DNA
<213> A.fumigatus

<400> 3315
cgagtcgggc tctatagtgg aagcggaacg ctcgggctca ttcaggccct ccgtgaactg 60

aagtataagg gaggggtcac cattatctcc aaagaaccaa atctcatcat tgacaggaca 120
aagttgtcca aggcactcat tcccgatgcc gagaagatcc agtggcgccc taaggagtgg 180
tacgaggccg cttccatcga gaccatcttt gatgaagtga cctccgtcga tttcagcagc 240
aagtccgtct ccacgaagtc cggcaagtcc atcccgtaca ccaagttggt tcttgctacc 300
ggtggcgtgc cgcgtacact gcccatgaaa ggcttcaatg accttggaaa catcttcctg 360
ctgcgcttcg tgaccgatgt gcagaacatc ctcaaggcgg ttggcgacaa gaacaagaag 420
attgtcattg tggggagctc gttcatcggt atggaagttg gcaacgccct ctccaaggag 480
aacgaggtga ccatcgtcgg ccaagaagaa gcccccatgg agcgcatcat gggcgtcgaa 540
gtcggccgca tcttccagcg caacctggag aagaacggcg tcaagttcaa gatggccacc 600
ggcgtcgaaa aggcaacccc gtcaacggcc gatcccacca aagtcggcgc cgtccacctc 660
aaagacggca ctgtgctgcc ggcggatctg gtcatcctgg gcgtaggcgt ccgccccgcc 720
accgatttcc tgcgagacaa cccagcagtc cagctcgaga aggacggctc cctcaagacg 780
gacgagtact ttgccgtccc cggcctgaac aatgacgtct tcgccatcgg cgacatcgcc 840
acgtacccat atcgcggacc cggcgcagac ccggtcaacg gcaccgccac ccgcatcgag 900
cactggaacg tcgcacagaa tgcaggccgc ggcgtcggcc gcgcgattgt ccacgccctc 960
aacaccggct cgctgcagtc cctgcgcccc aaggcgttca tccccatctt ctggtccgcc 1020
ttgggtgcgc agctgcgcta ctgcgggaat gcccccactg gctgggatgc actggtactc 1080
aagggcgagc cggacaatgc caagttcgcc gcgtactact gcaagggcga gaccgtggtg 1140
gcggtcgcga cgatgggcat ggatcccatt atgtccaagt gcgccgagtt gatgcggcgg 1200
ggcaacatgc catccaagtc gcagattgag ggtggggtgg atgtgttggc ggttgacgtg 1260
ccgcaggagg tgatgatgta a 1281

<210> 3316
<211> 414
<212> DNA
<213> A.fumigatus

<400> 3316
tattgtggct cagaagtaag tactggcgat ccctgccagc aatctcatgc atcttggatg 60
ttgataaatg ccctttgcag cgtcgcaacc ggctacggac agcccccagg taccatttat 120
gattgggcgc ttgaaccacc atctctccga gacgccgatt acaatccttc ggatgacttg 180
cgaatccggt tgcggattga aaagttctgt gaccgcgtga caaaggcact atatagcgga 240
aagcctgacc cagccgaatt catcagttcg gagaaattgt taatcgtcca gcttctggag 300
agtgaactcc gggagatgga agtcgacttt ggtcgcgaca tatctagtat gaacatctgg 360
actgctgttg ttgttgagcc gctactaaat tgtcatcttc agatatcaat atga 414

<210> 3317
<211> 564
<212> DNA
<213> A.fumigatus

<400> 3317
gccgctacta aattgtcatc ttcagatatc aatatgatcc atctgcgagc cgcggagttg 60
cacctgagat actttgtatt ccttggttct aatccacgag gtgaagattt gacaaagctt 120
ttcatcgcca cgacgtcatt cctcggacga gttttggact tggagacatc tcctggagaa 180
ctgattggcc acgccaccaa ttatatcctt cagatgatag tctctgcagc ctttgccctt 240
atgaagctct tgaagagtga tttcagccgt catatcgact tcgatcacgg caaattactg 300
ttcaatggag ccatttcggc catccgacgg ataagtgtta tggatcatga tcgccctgtt 360
cgcctcgccg atattttggc tcagatgtgg aatgcaaacg aggcagcaca ctctccgggc 420
gataatgtct tggagctgaa agttcgctgc agaatgagca tgagtcatgt ctatgacacg 480
gtctggcgct ggcggcagag attcaggcct atgcgcagca tcgaggactc acatattcga 540
ccagccggct ggaagatcaa cgct 564

<210> 3318
<211> 810
<212> DNA

<213> A.fumigatus

<400> 3318
gtcgtggttc atgagagtca gtcagagaac atgaatttcc aggcaaagaa tttctcctat 60
atgaccaagg cttttggtga cttcttggac gaggtccatg caggtggtcg ccagtatctc 120
cgaagcattt ccgctgaact accatccaag cttcctgcca accttgccgc ggattttcct 180
ggtctaaagg atgactttaa actcccccag gcactctcat tggtgacaga aaatgcccac 240
agctctccgt taagaatttc ggggccggtt actatgtggc ttcattacga tgtaagttca 300
aataccaagc aagaggggtg gaagctcaga gtggctgatc gctatgcaca ggtgatggcg 360
aatgtcttat gccaaatccg agggaagagg agactggtac tcttccctcc cgctgacgtg 420
caatacttgc aagtgccacc aggagcctct agctctacca tcgatatctt ccagaatatc 480
aaagacggct ctatcgtctc aattccacac acgtcgccgc aagaagctgt gctgcacagt 540
ggcgatattc tatttatccc gccgatgtgg ctgcatactg cttctccaac tggcggggtc 600
agtgtcgcag tcaatgtatt cttccgcagc ctgcccaaag gatacgctgc tggtcgagac 660
gtctacggca accgtgactt gcaggcctat gagaaagcca gaattgacat tcagaagatg 720
gtgaggtctt ttgacggtct accatctgac atatctcgct tctatctgct gaggctcgcg 780
caagaactga aagacaacgc tggagtatga 810

<210> 3319
<211> 297
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (7),(70),(272)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3319
gaagcanact gcgccacctc ccagtatcaa aacctggtct gggtctatcg cacaggccac 60
atggccgacn aagcacggtc tagcaccttt gcatatgcca ccgagtccta tcgcagacag 120
aaatctgtgg ccccaggacg actcggtttc gacgtaatcg aggagctctc ctacattcaa 180
gcacaatatt tcacattcgt atgggaccat ctgtccagga atgattccaa caactatgac 240
caggccccca gaaagtcgtg tgactgggga tncaaaatcg tagaagtacc gacctaa 297

<210> 3320
<211> 543
<212> DNA
<213> A.fumigatus

<400> 3320
acgcttgcgc ggtgcttccg gccccgtggt gaagacaacc aggtcaaaag ctacgccaac 60
tctcaggtct ccctgactaa gaagcttgtc agccagatca gcagtatccc caccaccgtg 120
cagtggagct atgataatac caacacccgc gccgacgtcg cgtacgatct gttcacagct 180
gcggatccca accatgtcac ctacagcggg gattatgaac tgatgatctg gtatgagatt 240
gcgttattca tgtcggactg gatggctttc gctgattggc ataggctcgc ccgctacggg 300
aacgtccaac ccatcggctc gcagatcgcc agtgtcaaca ttggcggcca taactgggag 360
ctgtggtacg gcggcagcac ccagaagacg tacagctttg tctcggccac cccgatcacc 420
tccttcagtg gcaatgtcat ggacttctgg aactatctga ccagaaatca tggataccct 480
gcttcgagcc agtacctgat cagtacgtcc gccacctcac cttgctcgag cgccactgac 540
tag 543

<210> 3321
<211> 1320
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (593)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3321
aagaccctcc ttgtagaggc tcccaatggg catgggagcc tctacaagga ggttcgattt 60
tcgccaacgg caacccccat ccgccgtgca cagtcgggct cgaccagtaa ccccgcctcg 120
acattcgatc acaggcgggt gcttggcaaa gctgaaagcg atcggttctc ttactcggct 180
ttaagtaccg attatctgga gcaggcccga acgcttctcc atcgccaaag ggcgagcttt 240
gagaatgagc gggcactttt cgcagaggaa cggcaattgt gggagaagga gagggagcta 300
ctaaaactaa gaatatcaga attagaggcc ttgttgaaga gcaaagatac cctgaacaat 360
aaccattcga ctcctgacac ccttgtcaag ttctctttgc atcccttcgg tggtccattg 420
tcccctaatc tatctaatga gcgccaccgc aatcacgatt atataagtgc tcaggtgtgg 480
gaggggccta gccctacggc tcggccgaca agggtttttc acagtgtgga gaagaccgat 540
ggtcaggacc acctcgcgtc gatcaccgag caaggagcgc atatgccact cantgcgtcg 600
tccttagatg cggcctatcc ccccaagctt cgtgcagccg aactctcttc gtgtatgagt 660
ataccgttcc caatcgagaa gcttgacagc aagctagatg gcattactct caaatcttca 720
gcgctaccgc ccgatgtcgt cgcccgcgtg atgacaccac catccctttc gccaatggat 780
gtatctccag agtctcccga ccgctcgaaa ttgtcttcgg aacgtaagaa cagcttgaag 840
ctgaaactgt ccgagcttgg gccacccgac gtaaatttgg ttagggatgc tgggcacact 900
cccatggtgc tcatcgatgc cgatgcggac acagagcagg cctcagttaa cggtgacgcg 960
atcccccaag tccagggcaa ggaagacgag ccctttgctc ctagggcggc gatggttgga 1020
cagcctgcgg aaaactccga ctcctacttt ccggacttac ctgatgatcc ggccctcaag 1080
gggccgttat ccctgctgaa tgaagaggag catgacagcg agttcctaca ggagctggat 1140
ttgaaactcc tcgatcaggc caggcgagcc attggtcgct cctctgatgc cgatccggac 1200
gacgagaaga tagcagatgc agaccctacc gagtccgttc ctgagttgaa attcaagaac 1260
acgaccaatt tcggcactgc gttcggaggt cttaaccacg cggctggacg gaaagacgtc 1320

<210> 3322
<211> 375
<212> DNA
<213> A.fumigatus

<400> 3322
atcgctagta atttgtacgg ccaattaaaa gtcaacgcag ctccgattct gctgctttat 60
tctctgttta tgaggcttat ccgcctccta ttgtctgtcg aactggaaga gagccgtttt 120
cataccctca tgatgcccac cactaagtca atattgggtt tatctctcgc cgtcgcaagt 180
aaagcctatg cggcaactac cctgttcaac ggccttcagt ctgccatctt cccgaccacg 240
acctcagcgg aatgtcttgc aagctttaac acctcccttc aatgcgatcc tctggtttcc 300
cgtctgtaca tgcaaacaga ttgggtaggg tggaatgcaa caaacctgac agcgtttgtc 360
tcaccagata attga 375

<210> 3323
<211> 705
<212> DNA
<213> A.fumigatus

<400> 3323
aaagaacaaa agaaagagta ttcactaaca aaactctgtt gtcgtgaatt agggctccta 60
gcaacccaac caatcctcgc tcttttaacc ttataccagt ccttcgtcta cggtgtgatg 120
ttcctcttct accaaatgta cccggtcgcc ttcggggacg accgcaactg gactacaagc 180
ctaaaatatc tgccactttt agcgattatc acaggcacct tcgtaggagc acttggcatc 240
gttctccaca accatctcta cttccgccat cactgccaca acccagatgg tacgtatatc 300
cccgaatccc gtctcccgcc catgatcgtt ggatgcgtaa tggtcccggc aggaatgttc 360

tggttcgcct ggacagcgtc gccagacaac gtttcatggg cgagccctat ctgtgcgagt 420
ttcatgaccg ggtgtggaat gtacctgctc tttatccagg gatggaatta tataattgat 480
tgctatacga gtatggcgaa tagtgcgatg ggcattaacg ggtcgatgag gagtgtgttt 540
ggagccgtgt ttccactttt tgcgaatcag atggtgggtg ccctgggggt tgcgaagacg 600
acgactgttt tggcggctgt tagtgtcatg ttggttcctg taccggtttg cttttggcac 660
tgggggagtc ttcaccacgg ggctggaagg atccgcggtg gcgca 705

<210> 3324
<211> 600
<212> DNA
<213> A.fumigatus

<400> 3324
ggtcccctct ctgagcgttt cggccgtaaa tggcccatgc taataggcat cactgcatcc 60
tctcttttcg atgtgatgcc cgcattaggc accaacgtcg ctaccgttct catcggccgt 120
atcttcggcg gtctctttgg agtagcgcca gttgccattt ttggcggagt gctcagcgat 180
tgctggcctc tcgcacagcg tggcatcgcc atggccttgg cggtgtcgct ggtattttcc 240
ggccctacct ggggcccggt atgcgggggg ttcataatgg gatctccgtc ccttggctgg 300
agatggacta tgtgggtcgt tgtcattatc gggctgggct ttacactcct ttgtgtgttc 360
ctttaccccg agacatatcc ccctgtgatc ctacgggcca aattacaggc tctgcgaaga 420
aagaatggga atctgaatat caggactgca ttggataagg gggggttgag catacagaac 480
attatgagtg tttatttggt ccgaccattc tgtgaggttt cctattttcc catttttaaa 540
gactttactg agcatagatg tgattccctt gaaaagaaca aaagaaagag tattcactaa 600

<210> 3325
<211> 456
<212> DNA
<213> A.fumigatus

<400> 3325
attgaaccag ccgctggatc ctcgcagccc cgttgtgaag acgatcgtca acatcgcaag 60
tatttcagca cgggggcctc cgccgaacca gacaatctac gcagggacaa aggggatggt 120
cgactccttt accaagtgct ggtcagtggt gttaccatcc atatgtggta cccggttaaa 180
atactaagca taatctacag ggccaaagaa ctccctccca agtatggctg taccgtcaat 240
gccgtcagtc ctggtccaac aatgaccgag ggtttcgctg ctgccggcaa ggagcagatg 300
aagatccttc agccaatcat tgatcagact cctgttgggc cacggatggc tcagccagat 360
gagattgcct atgctgtggc ctttttatgt gaggaacgtg cacgatggat taatggtgca 420
catctgattg catctggggg cttgttcatt gattag 456

<210> 3326
<211> 510
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (331),(399)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3326
ctgcacgatt gcttgaagga cggcgtgaat tttatcgata tcacagaaga gcacaacacc 60
ggattttacc cgactctcca cagcgccagc tatgtgaaat atccaccgaa gatgcagtat 120
gcagaagaag tggctgctct taacaagaat ttatcgaaag aaaacatgaa ggccaacctg 180
gaacgattca catcatttca tactcgctat tacaaatctc agacgggaat ccgatcggca 240
acgtggctgt tcgaccaagt tcagagagtt gtctctgagt ctggagccgc tgagtatggt 300
gcaactgttg agcgattctc tcatccatgg ngtcagttca gcattattgc ccgaataccc 360

ggccgaacga acaagactgt ggtgctgggc gcccatcang acagcatcaa tttgtttctc 420
ccgtcattct tggctgctcc cggtgctgat gaccatggaa ggtggactgt caccattctt 480
gaagcgttgc gcggcttgtg caatcagacc 510

<210> 3327
<211> 198
<212> DNA
<213> A.fumigatus

<400> 3327
tcccgacaga ccagaagcct gcatgacttc gaacaaccca tgctgtccaa cgctctgcaa 60
ggcggcccct cgacttttg cggcggcttc cacagcaaat tctcttccgc aggccagacc 120
gaggatgtta ctggcggttg ctcctgtcgt aaatgtacca ttatacagga agctccgatc 180
cagctgaagg aggtctaa 198

<210> 3328
<211> 1107
<212> DNA
<213> A.fumigatus

<400> 3328
atcatatccg cattttctac acacccacct tccaagatcg gaattctctc aatcatggag 60
tcaaaagaag tcgatatcac actcgaaaag cagcaagatt atcaagagaa actatggaag 120
actgcccaga gcgaatggaa gtctgacatc ttaccacgtg ccaaccatct ggcacacgcc 180
agagcatctc tgccgaagtc gctatcatat gctggaatgg gatatgaggc tgccaagcag 240
catatcttgg acgatattat cccaggcttg aatggtagca gcatcagtcc caattactat 300
ggcttcgtca ctggcggcgt aacacccgcc gcgttgtttg cggataacgt ggtctccgct 360
tatgaccaga acgtccaggt gcatcttccg gagcattcag ttgctacaga tgtcgagtat 420
agtgcgttgg gtttgttatt agacctcctt cagctggatc ggagcttcct gtataatggt 480
acatttacga caggagcaac cgccagtaac atcctcggtc tggcctgcgg aagagaattt 540
gctgtggaag ccgccgcaaa aagtcgaggg gccgccttgc agagcgttgg acagcatggg 600
ttgttcgaag tcatgcaggc ttctggtctg tcgggactac aggtgctctc aacgctaccc 660
cattcgtctc tggtgaaagc agcgggcatc ttagggatcg gtcgcgcaaa cgtgaagaac 720
atctcccgtg atgataatcc gcttctcttc gacctagcca gactcgaagg agaattggca 780
agaactgaaa aggcaactat cgtcgctgtg tcatgcggtg aggtcaacac cggacacttc 840
gcaacggctg gtctcgaaga aatgcttgaa atacgcagac tctgcgatga atacggcgcc 900
tggctacatg tggatggagc ctttggcatc tttggccggg ttctggacga tagtccggag 960
ttttcttcca tcaaaaaggc ctgtcagggc atcgagttag cagactccat cacgggtgat 1020
gggcataaat tgctcaacgt gccgtatgac tgcggttctt tctctgtcgt cagtcttcac 1080
cacaaggggt cgaaggatcc gcgctaa 1107

<210> 3329
<211> 327
<212> DNA
<213> A.fumigatus

<400> 3329
ccagaaacta ttagaaatag ttttgcaggc gcgggcctag ttccatttaa tccagatagg 60
gtactcagtc agttagatat ccaactaaag acccgtacac caccaggcag tcgatcaacc 120
aattcagcgc caaaaacacc ctatactact aggcagttag aaaagcaggc atctactgca 180
aaaagactac ttaaggaaca cacatacagc cctttaccac tactagaggc gcgattagac 240
aagattatta aaggtcataa aatagcttta aatgagcttg ttcttacgcg taacgaacta 300
cacaatcatc atgccaataa taaatag 327

<210> 3330
<211> 306

<212> DNA
<213> A.fumigatus

<400> 3330
ctctcaaacg acgatggttt agccacgtgg ttcgcaaggc tatccccaac tagtacggag 60
tacgtaatat acgaaatgga gatgctagcc atgatccagc cagttctgtc gttccaagcc 120
gtgtgctcta tttcgtctat catgaagcag ggctatacgt ttggacattc gcagaatgag 180
atgactcgtt ttatcaggac acaaactgtt gtcaactcca accggagtat tctgctatgc 240
agtacggtta acgacgattt aggagacatg tcctatcaag ttttcaccag atcaagtggt 300
gcttga 306

<210> 3331
<211> 234
<212> DNA
<213> A.fumigatus

<400> 3331
ttcacaacga agctggtgct aaccgtactc tactgcatag atgttttgcg tatggtgctc 60
ggaaatacta aatgggccct tgatttttca ttctacgtgc tcaacgagct gttcgacctc 120
gccgatgact ttgaaagcct gtccggcgac caggaggcat ttacacagaa gtgttcgtgg 180
ggcctcgcct ctacatacct ggtgaaccat gctaaccccc atttccggca gtga 234

<210> 3332
<211> 342
<212> DNA
<213> A.fumigatus

<400> 3332
cacccggtta gttcccctcc ttcgatcgtt gcaatgagcc tttccgctaa caaatgcaca 60
gaggcgcaag ccaccttcat caacgaagca taccgcgctt tgcctataaa ctgcaacttt 120
acagtagagc aggataaact tatgaaccat ccttacattc ctcgctgtct gagtatccaa 180
gctgctctgg gattcaagaa caaatacacg ccgcgaagct ttgcatcctc tataccttgg 240
gccgtcctcc agcttcgcca tgcgtcggtt ctatatgcat tcttcttcca gtacaacaaa 300
ggcggcacca cagaaccgca tgaccctggt gagattacct ag 342

<210> 3333
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3333
ctcaggcggg ctttcaccac ccaccagagc cctcaggtca gtgatatttt cggtcgcatt 60
gcctcgacca ctctgaccta tggatttgca gcaggtcttc atatcagttt ctcaccaaac 120
gcgtgcgctg ccgtaatgct tgacggagag ggacaaactc acctaaggct caccgaacac 180
tcttacgggg ctgagggcgg acttcatgac gagagtacgt gtctagactg caaggttatg 240
agtcggcgca ttttctga 258

<210> 3334
<211> 351
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (240),(283),(289),(294),(295),(314),(317)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3334
cccccatttc cggcagtgaa atccacaagt tcccttcctc tcatcatcct cctctcaagc 60
atgtctcgcg cattcctgcg gttcatctgc cggggtttgc gaaggatcta cgcaggctac 120
gcgaccgcag cgcctctaag cggcgatgcc cgcgtctact acgcggagaa ttaccaaaca 180
ctggaatccg ccccaatccg tatcgacgca tacgagaagt tcctcgcggg cgtggactcn 240
gccgtgcgtc acgctttcac acgttgccgg gttcggcgaa acngaaacng ccanngccgg 300
gagaaaagaa ctcntgnttc aacgccccgt gttgcccccc gtgcttggta a 351

<210> 3335
<211> 681
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (386)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3335
aaaacaacgc aaggtcccat cgcaatgtcg gaagaagcgc ctaagcacga atctccctca 60
gtgatcagcc caatagaaaa cgaggagaaa ggcctggccc ccaaacccct cgagcgcgtg 120
ccgcccaatg gtggtgccaa ggcgtgggct tgcgttgcag gctcgttttt gctacagttt 180
tgttcattcg gctacgtcaa tgcgtatgtt tcgattctct tctcttctct cttcgtctcg 240
tttgagaaac agcccactga ccttcccgag aacagatgtg ggatcttcca attgtactac 300
caggagacca tgctcaagga ccaaacatca tcagccttgg cgtggatcac tacccttcag 360
atcttcctgc tttttatgtt cggtcncgct gtcggcaaaa tgattgatgt ctatggatgt 420
cgccggacgc ttccaccatt cagcatcggg gctgtgtttt ccgtatgcat gctgagcttg 480
tgcaccaagt actggcaggt catgctggcg cagggagtcg ccttcggtct ggctgccgct 540
gggctctctc ttcccgctat ggcgacggcg acgcagtggt tctcgactaa gaaagggttg 600
gccgttggca ttgtgtccgc gggtagcagt ctcggtaaga atggcgaacc tcttcaacca 660
aactcacatc ttgatggcta a 681

<210> 3336
<211> 300
<212> DNA
<213> A.fumigatus

<400> 3336
tctacgcccc cctgtacgtc atcttccttg gtttcgtcgc tggcttctcc ttcccactcc 60
gggcttaaaa ccagttccgt ctcttcggtc ccgaatagtt caagtgcgac aaagtcgacc 120
ggacatcttg cttcaacggc tacttatcag attagcactt atgactcgac tcttccctcg 180
ttttccgctt ccattgcaca tgtggcccct accgttgcag ctgccaatga cctgctggag 240
gcgcccctcg gaatgggtgt cttctgtgcg ctccttggcg gcctcatcgc aatcttttga 300

<210> 3337
<211> 498
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (170),(191),(325),(352)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3337

cagcatcgga tatcagaaaa tggccagtca ggctcaaata aaccccaaga agcaacaggg 60
tacgccgatg agttctcatt tcatttccat gcagtcacga aggctaatct gaagcagagc 120
ttcagctcca atatacgaac ttcaagaata cactcacaca gatggcgcan aaaattggtg 180
atatcgagca ngaagcagag gagcataagt acattttgct tccattctaa actgctggca 240
gcactgacct atactagact tgtcattgag acactcgaac cccttcccga ggaccgcaag 300
tgcttccgaa tgggtaaacg agttntggtc gagcgaacag tcaaggatgt gncttctgca 360
ctcaagacaa actcagatgg tctgaaacag gtgctcgacg aaactgtgaa gcaatatcag 420
agcaaacaat ctgaattgga cgattggaag gttagtttgt caatgccagg ggttcatgtt 480
aatagtatag atgattga 498

<210> 3338
<211> 525
<212> DNA
<213> A.fumigatus

<400> 3338
tggactgaga ctggatcctt ccagccccgt ggtgaagact atggtcgggg aggtccctac 60
ggaggcccca gaggacctcc gcccaatggt aggggcgggc ccatgggccc catgcgagga 120
gcccccttcag gtatgatggg acgcgggcag cggggtccaa atcctgcggg ctacggttac 180
ggccccgtct ctacaggcct caatcctggt tatgatgcct acaactacgg gccgggcccg 240
agaccgtcgc aacggtttgg tgaaaacggt atcgactatc atgggccgtc acctgttgaa 300
acagcgcgac ggcccctccc gggtcccatt ggcatggcag tgtcgccgcc agaaaccgcg 360
ccaattggcc aagcgatcga aatgacatcg caacccaggc acacggactc tgctgtcgaa 420
ctgggcccca atgcagtgcc ggaggaggag cagccacatg cggtgtccaa cgacggacac 480
ccggagcctg tcagcccttc gagtctgtat agccgatcag cgtga 525

<210> 3339
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3339
agacggggcc gtaaccgtag cccgcaggat ttggaccccg ctgcccgcgt cccatcatac 60
ctgaaggggc tcctcgcatg gggcccatgg gcccgcccct accattgggc ggaggtcctc 120
tggggcctcc gtagggacct ccccgaccat agtcttcacc acggggctgg aaggatccag 180
tctcagtcc 189

<210> 3340
<211> 900
<212> DNA
<213> A.fumigatus

<400> 3340
aaagtcgagc ctaatgataa cgctacaggg aacgattccg aacaaatgaa ctatctcaac 60
agcctctggt ctaagtggat gcccgaagcc tctccccgaa tcgccgttga ctcccatccc 120
cgcctctccg gtatccaaga cacgatcaac gcgaccgatg cccatgggcc cgccacgaga 180
ctacccgcgg agttctatga caagaaagcc cgcgagtaca ccaacaccat cgccgtcgac 240
gagtggttcg caggatatgc ggagagtagg gaataccgga aactcgggat cggcgccctg 300
atgggcgacg tagtcgaccg tatggtcaac gccgctgcca acggcggctg gcgcagcgag 360
cgctccgcgt ctggctcgtc cacggagaac ggcaaggcga tcaagttcgc catgagtggg 420
tgccacgata ccaccctcgc cgctatcctg ggcagcgtgg gcgcctttga cgccaaatgg 480
ccgcctttca cctcttcgat cgctattgaa ctcttctccc ggatggagaa ccaacctcca 540
tcgtcacctt ccccgtccgc caagcaaagg agtctcgtct cgtacctcac ggggcatgat 600
gccgtgccct cgtccaacac ggaccgcacc ccgctttcct ctctgccaaa ctcaacccgg 660
caggcattgc aaaaccacta cgtgcgtatt cgatacaatg acgtcccggt ccggattccc 720
ggctgcgcag cgaaagcgga gaaccatctc cctggcgacg agaccttctg cacgcttgat 780

gcatttaagc agatcgtgga taagttcacg cccaagaact ggagggagga gtgtgtacag 840
aatctggggg agggactgta cggtaaggac gatgcggaga aggctgttgc cgggttctag 900

<210> 3341
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3341
agacaccccg atccatgtgg aatgaaaggt cggctttctt caggcatctt tggtgtgaga 60
tggaatgact tgtatgcccc tggctcccgt atgttgtctt ctgtcactgt gaaagaattc 120
cttggtttct gcagagaact ggcctcggaa catgttgaag caattatctt tctagtgcag 180
gtgcacctga ttatgatcta a 201

<210> 3342
<211> 369
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (181)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3342
ctcctcacgc aaagcaagca gtccttacag ttgattctct ttgtaaaatc ttccctaaac 60
gaggttgatc ctcacacact ccttttactg tcaattgcca ttgtgctaca gtctctcctt 120
aaacataaca ctcctttaaa tcggtcattc gccatgttct tttccaaact ccttttcata 180
ncggcctttg cgctggctgt ctcaaccctc ccgcaattct atcctggtgg cagcatgact 240
aggcatgatg caactcccac ctccagcaca agcatcagcc ctacttccac tttcgccagc 300
aacagtgccc gccccagtgc cacaaccaac aggcacggca gcgtccatat cgtttaccaa 360
cttgacccc 369

<210> 3343
<211> 939
<212> DNA
<213> A.fumigatus

<400> 3343
cctggtgtgt atccatcaaa accaatcctt aactgtgtgt tttgtgttat tcaatgttca 60
tacggtgtca atttccctcg tagcctggga aataacacac ccggatcgct ctgggacaac 120
gttgccgatc gaaccggcca gaacctattc acctcgaacc ggtacgggca tctcaaacgc 180
cagatctacc agagcgtacg tagagcagac ttctgcggct tctggctttg tcgtggacta 240
tcagcagaag cgacccaccc ccgcgatgcg gatctggtgc tcttccactg ccacggcggt 300
ggatatgtga gtttccaccc gtctgccgga gcgccagaac acctcttcat ggcggagctt 360
ctccaacggc atgggctcac ggtcgccatc ttctccctgg actacaccct cgccccggca 420
gcgacattcc cgaaacagcg cgacgaagca attgccgcct acgactggat caacaaggag 480
ctaggtgtgg acgcatccaa gatcgtggtg atcggcgatt ccgccggggg gcatctgatc 540
atgtctctac tgacaggcct tcaccagcgc tatccgaggg ccaacgatgg acgcagcgcc 600
gatcaccatc gagaccgacc cgccggagca atcctggtca gcccctggtt gaatctatac 660
acgtcccacc cacgcacgct ggcgctccac tgggaggagc ggctcttcaa acgctcgcta 720
gacaaatgct gcgagcaggt gatgcgggac acgcccgccg acattgccga agtgtacggc 780
aacttcgcag tcgacgtggc agcgcgcggt tcgtggaagg agattctccc cgaccgcacg 840
tgggtctcag ccggggcaga gagctggtat tcctgtacga cattgaagat tttgtggccc 900
atgcacggcg tgacggggca gcaatcgcgc tggatgtga 939

<210> 3344
<211> 588
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (554)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3344
gaaacggtgg aggagaacat catggctgcg ttggtgcaaa cgattccaca acaaagtagc 60
acggtctctg tgcttcagac tcgcccttca tcctcttccg gctcctttgc cccatctcct 120
cagccttcgc agcagcaaaa ttctcgcagt tccacgatgt cctggaactc gtacaatact 180
gtgagcggat ctcagggcta tcgggcgggc caccaggttg tggcccccta tgctttcact 240
ggcacgccta gcatacccaa tgccagtttc aacacgacgc agaatagtca gtcgtggtcg 300
ccccatttga ggccagagaa ccgaacttcc tctgctccct cagtccccca ggggactcca 360
gtccatcctc atgccattgg ctccaaccct cgtttctccc accatcctgc agctggttct 420
gtatctactt cgtcctccaa ctcttccgtc caatcttacc gctccaaaga cgactccgcg 480
atcccttcga gacagtcacg cagcgacccg cctcttcgcc ctttatcgac cgccaacctg 540
ccgtctcctt ggtnttacac cgccggaatg gccggaaatg cggtggaa 588

<210> 3345
<211> 1218
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (82)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3345
acctgctccc cttttatcac ggttttccac ttcgaaactt taccgacgcg acgcgaacca 60
gggacgaatt cgagcattgt tntgggccgg tccaagggta atcgactggc cacactctgg 120
aatcttctcg acacaggcgc atcagcacca tggccaacgc tgtttagcat ggccgccgag 180
cacgactcgg tgcttgcgat gaaggtactt cttttgcagg atggtgccga tacaaacgct 240
gtggaacaca ctgaaggcat tccgcttatg gtgaccgctg tggtcaatcg ttcacccaaa 300
gtagtgcgct tccttttgac cagagatggg gttgatccga acgtcaagaa ccatgatgga 360
caaacacctc tcgcatacgc tgcgtgcgag tgcttcaacg atattgttaa gattctgctg 420
aagtgtcccc aggtggatgt caattgcact gataacgccg gatgcacgcc gcttcgttta 480
gcagcgggaa ggagccatgt gttcgttgtc cgaacactcc tctcgaatcc ctgggtcgat 540
gtcagtgtga gggataatat ccttcacatg acggctctct cagctgcagt ggcggctctt 600
gctaaccgaa ttgcctggag ccccgagaag gtcaaattga agcatcggcg gacaatacaa 660
gcactcctgg agcacccggc cacctcggtg aactatgaca tggacccaga tctcctgccg 720
ctgtatcggt tcagcgctca gtacggatac gaagagattt ttaagttgct ttggtcgaaa 780
ggggcgggac agctcccggc agaactggat cgctccggga tattattctt cgttgcagaa 840
cacggccaag ccgggatcat gaagatgttg tttgcgaatg gtttcgagcc ggaagcacag 900
actgatacgg gccgcacgac gctctcgatt gccgccgaac acaagcagct cgaggtcatc 960
tgtctgcttc tctcgacggg aaaggtcgac gtgaattcca aggatcaagc tggtcgcacg 1020
ccgctgtggt gggccatgac ccatgggtgg aggaagactg ggacggatga gactctgaag 1080
ctgctcatcg cccatgacgc tacaattccg accatcgaaa gaaggaagtg gcttcaaaag 1140
tcactgtgca acgctcttga gtatggcaac tgttttctat gtcttcccac ggggctggaa 1200
ggatccgcgc gggcgtta 1218

<210> 3346

<211> 213
<212> DNA
<213> A.fumigatus

<400> 3346
tcatgctgga aactaggtgg aagatttatg gttgacatag tcctgtacct tttagatgat 60
gctaacgcag ttaatcatca aatttatcat cagctaggtg agtctgggaa gttacttatt 120
ctcgagtgtc tagttggctt agatgtctct ttatacatgg gactaaggga aagagcgtct 180
gggatgcttt acatatccca tgttgttgca tag 213

<210> 3347
<211> 939
<212> DNA
<213> A.fumigatus

<400> 3347
caacttattc cttccatccc ggcgttaaga ccaacggagg agaatgaggt gaagagtcct 60
gatgtaccat ccaaacccgc tattccatct cgccctcaga agctgtcaca acaaactcct 120
gcggtagatg cctcctctgc aacctctcca acagaaaaac gacagccgcc cagcatacct 180
gatagaccca agccacagat tcctcctcgg ccagccaagc ccattacccg tggggctgga 240
gaggaagttc cagccaaaga aaagccagct gtccccattc ggcccaatgg aagcaagatt 300
gctgcactca gagcagggtt cttgtcagat ctaaattcac gtttgcagct gggtccccaa 360
gcgccaaagc cccaagagaa gaaagaggag gaagctccgg cagaaaaagc accactgagt 420
gatgctcgca agggtagggc acgtggccca tcccgacgaa agccagcttc ccagaacgtt 480
agtacaaggc taccgacgat ccccgaaatt aggatcatcg agacttggaa tgtttggcaa 540
gtcggtgagg atggcaatct cacggtcgaa accggagtga aggctaagca gcctgagcct 600
gctgcacctg aagtctcgac ttcgaaggac agtatggccc cagccttgtc aaaaaacgtt 660
gccggagaat ccaccgatcc ttctccgatg acggcaacca aggaatctgc acccgagaca 720
gctgagacga taccaagcac ggttggggac gctgcggctg tgtctgctac ggaactcacg 780
aagccgaacg agagtgaggt acagcaaaag tctgcagatg cgcagtctgg aatcacatct 840
agcacatcgg ccccggtaga cgacgtcatt gaagctttgg ctgcaactgc tgacgggaaa 900
agatcgtcgg aaggctctgt gccccctgag gagcagtga 939

<210> 3348
<211> 1035
<212> DNA
<213> A.fumigatus

<400> 3348
caccccgtgg tgaagactct cgatccggtc gaccgcgcat tctatgcggg atatgaggat 60
ggtagcgtcc agtcagttga cttctacaag agtcagtcaa tacaacatac cctgcacgat 120
ccttcattac attccactcc gtcacaacca tcagcggaag atcgctggct tgctccgtcc 180
tccgacttcg gtggtgtcca ctcgctttct ctgtcctacg atggaatgac cttgctatct 240
ggacatcaaa acgggaaggt cctgtcatgg aatgtagctc gacggaaata tgcatcaact 300
ctggcggatt acacccaccc cgtgacgaat atcattgcgc tcccattgga aggactaccg 360
tcttccggaa atgagttgag acgagtagcg cacaccatcg tcaagccacg ttatgaccat 420
gctctttcag agtcttcggg tacgcctgac gctgtccccg ctgactatac atttagtacg 480
catctgctcg cctctgacac agcccaactc actttaagcg atcatcagag agatcagttt 540
tctacagctt tgacacacgc tttcttcccc gagtcaatga tggaagaagg tcttgcggag 600
cttgccgctc tcaagcattc cgggaataac ggaaaccatg tctcgacgat ttcgcaatca 660
gtagtctccc agcaagcggc aattgtcgac gactcccaga tcgcatcatt ggaagaggaa 720
attaccacac taaagaagaa acttgccgtc aacgaggcgg cgcgccaagt taccacagac 780
gaggtgacta aactgcgctc ggacctagtc aacctgcatg actacgtcaa tgagctgcat 840
cagaagcagg agcatgccca tcgcgagaag ctcctgcgtc aagctcgaaa ggaagagcgc 900
gaaactcgca ggcgggaagc ctggttcgct gccgagagga aagggaagaa gggtgatgcc 960
gtacttcggc gtatggaatt ggaagaggaa gctcagacca gcgaaaccga tgatcaaagc 1020

agtgacgagc aatga 1035

<210> 3349
<211> 240
<212> DNA
<213> A.fumigatus

<400> 3349
aagcgacaat cattgctcgt cactgctttg atcatcggtt tcgctggtct gagcttcctc 60
ttccaattcc atacgccgaa gtacggcatc acccttcttc cctttcctct cggcagcgaa 120
ccaggcttcc cgcctgcgag tttcgcgctc ttcctttcga gcttgacgca ggagcttctc 180
gcgatgggca tgctcctgct tctgatgcag ctcattgacg tagtcatgca ggttgactag 240

<210> 3350
<211> 426
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3350
ngcggaaatc cccgccttgg gtctgggtat gattgttctt cctcggtcgt ccgcggtgaa 60
caggccagct tattcatgac aggaacatgg caatcgaaac ctggagaggt tgagagggcc 120
gtcagccatg ctatctcggt gggatacagg cacatcgaca ctgcctactg ctaccagaac 180
gagacagagg tgggcaatgg tatcaaggag gcgctgcaat ctggaaaggt caagcgtgag 240
gatttgtttg tcaccaccaa gctgtggtgc acataccata cacgagtaga agaggctctg 300
gacaagagct tgaagaacct gggcttggac tacgtcgacc tttacctgat gcactggccc 360
ctggccatga accctgaggg taagcatctt tcaacccttg caaaccacag aaacctaact 420
ggttga 426

<210> 3351
<211> 537
<212> DNA
<213> A.fumigatus

<400> 3351
gcatctttca acccttgcaa accacagaaa cctaactggt tgaaaggaaa ccatgagctg 60
ttccccaaac accccgatgg ctcccgggac attgttcact cccactccca catcaccacc 120
tggaagagca tggagaagct cctggctact ggcaaaacca aggctattgg tgtctccaac 180
tacagcaaga ggtacctcga gcagctactg cccgaggcga ctgttgttcc ggccgtcaac 240
cagatcgaaa accacccatc tctccctcag caggagattg tagatttctg caaggagaag 300
gggatccaca tcaccgcata cagccctctg ggaagcacag gaagcccctt gttcacggca 360
gagcctattg tcgcggttgc aaagaagaga ggagtcagcc cggccagcgt tctcctcagc 420
tggcacagta cgtttccatt tgccagtcca atttcgcttt tcgcgtgcaa cccactaaca 480
ataatatact gcaatagttt tcacctacgg gagctggacg catccgcgct tagtgat 537

<210> 3352
<211> 1359
<212> DNA
<213> A.fumigatus

<400> 3352
aaacgtaatg agacgaagct tctaggaaag atgacgcact cacaggaaat cttggcttta 60

ctggaatacc tcaggatgca acggatgaat tctgtggttg cttcacatca catcactaaa 120
gactttcccg acctctttta tgctcctggg tttaagcaca tctccggcat gctctatgtg 180
cctttgtcgg ccggtggcac tgatttcatg gtcttcttcc gtcggggaca tcttacagag 240
atcaaatggg ccggaaaccc gtatgacaag aaacctcaaa acggccatct ggaaccgcgg 300
aaaagttttc agacctggcg agaaacagtc ctagaccagt ctcgagaatg gaccgagtcc 360
gatgtggaga cggcagctgt gttgtgtctc gtttatggca agttcattaa agtgtggcga 420
caaaaggaag ccgcaatgga gaactcgcaa ttgacacggc tcctcctcgc aaactcggcc 480
catgaatttc gcacgccgct gaacgctgtc atcaactatc tggagatcgc tttggaaggc 540
tccttggacc ctgaaacccg cgacaacctt acaaaatcct actctgcatc taaatctctg 600
atctatgtca tcaacgacct tctggatctg accaacgctg aaaagggcca gaaactcatc 660
aaggatgaaa tatttgacct tccagccact ttccgagaag ccactgatat gtttgaggga 720
gaggccaagc gtaagagcat tcattacaaa gtagtagcgc accctggact tcccccagcg 780
gttattggcg accagcgtcg ggttcgccag gtgttcacca atctcatttc caatgctgtt 840
cggcatacaa cagcaggcag cgtgaccacg gagatttggc gctctctcga gcaggcgcag 900
ccaggatgtg tggtggtcca aatgaccgtt ttggacacgg gatcaggaat gtctcagagc 960
acccttgagg ctttgttcca agaacttgag caggtctcga cggatgatga caattattgg 1020
tttgatccgg aagaccagac gcaccctctc gactcatgca gtcaggataa acgtgtactc 1080
ggcttgggtc tggcgttggt tgctcgaatt gttcgcaaca tgcacggcca gttgagtgtt 1140
cgatcggaga agggcaaggg tagctatttc gaaatctcac ttaacttccc agttccggac 1200
gacgtggcgt ctggggaatc agaagagcca tctgtgccgg atatcgtgga accagctgtt 1260
ccgattcagc aggaagtgga gttcatgctc gtcgacagca agtccacccg aggcggcgag 1320
cagcggcgtc gcagtaccgg cagcgatcac agcaagggc 1359

<210> 3353
<211> 306
<212> DNA
<213> A.fumigatus

<400> 3353
ctcagactca atttgctcca ggtaccagac aatcagatct tcttgctcga caccttcgcc 60
cgacctcgat tcgtcctcac tcacgcggcg aacaaacaga ttcaggatct tcatgtactt 120
gtcatacgtg atcttcgtct tctgacgcgg tcgtgcttcc gcatggtcac gcatgggact 180
gtcaccttcc ctatcccgat cagccatctc gtgatcctct tcaccagcgc ctgcattcgc 240
atgagtgcct tcgtcgtcgt caacttcaac atcatccttc tcgacggtga cgatgctctg 300
gcgtag 306

<210> 3354
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3354
atcacatccg ttctattaag caggctcgct tctttgttga ggcctgtcat cacataccaa 60
ctgccttatc ttcccttaat ctccctttcg ggacgtttct acgaattcgt ttttctcaag 120
tcgttctcta tagacacctc tacttccagc tgtcaccttg acctcacaat ttgccttgat 180
ccgacctag 189

<210> 3355
<211> 984
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (180)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3355
catgcggcgc caattctcaa cttcagtgct ctaatcatga gcagattcga ctgtttcttt 60
gtgattcgag atgagccgaa cgaagcggtg gaccgtaatt tggctgacca catcgtcaac 120
gtgcacatga accgtgatga ggccgtccag ccagaattga gcacggaaca attgcagcgn 180
tacattcggt ttgcgcgaac cttcagaccc gtgttcactg aagaagctaa ggctttgctt 240
gttgagaagt acaaagagct gcgagcaaac gacgctcaag gaggcattgg ccgctcttca 300
tatcggatca cagtccgtca gctcgagtct ttgattcgtc tctccgaggc tgtcgccaag 360
gccaactgtg tagaggagat cgtaccgagc tttgtacggg aggcctatga cctcctacgc 420
cagagcatcg tcaccgtcga gaaggatgat gttgaagttg acgacgacga aggcactcat 480
gcgaatgcag gcgctggtga agaggatcac gagatggctg atcgggatag ggaaggtgac 540
agtcccatgc gtgaccatgc ggaagcacga ccgcgtcaga agacgaagat cacgtatgac 600
aagtacatga agatcctgaa tctgtttgtt cgccgcgtga gtgaggacga atcgaggtcg 660
ggcgaaggtg tcgagcaaga agatctgatt gtctggtacc tggagcaaat tgagtctgag 720
ttaaacagcg aggaagacct acagcgtgag cgtgacctgg ctggaaaagt tttgaaaaga 780
atggtcaagg ttcgttcttc accgacagca agtgtctttg tcactgcttg ttttactgac 840
tatcttcgac acaacaggaa aatatcctca tgccaatccg aggagagggt ctggtggatg 900
ctgatgggga tccgcaagaa caggttcaac ggaccgtcta tgtgctgcat cctaactgtg 960
cctacgagga ggcttaagcg gtag 984

<210> 3356
<211> 816
<212> DNA
<213> A.fumigatus

<400> 3356
ttcttgtgtg tgaagggacc gaaagtaggc caccttgctc atttctggca catggttttc 60
catgaaagca aggatgtggc tgtcatcgtc atgctcacgc agacggtcga gtcgggccgc 120
gagaagtgtg cgcaatactt ctccctagac cacgaccggc cttccatgat tttgcggcac 180
gacgaggacg acccttttcga acacaacgag gagtatgaag aagcgaatga caacgtaatg 240
ggtgaagtca ctctattgga atcgagcttt gaccaaaact ctcgctctga ggtccgcaaa 300
ctgcgactca cattggccaa cgagtcaaag atcgtctggc atttcctttt tgctggctgg 360
gcggattact ctaagccaga aggcgaggac cgcgaagcgc tgcttcactt aattgagctc 420
tccgcgtcca aatgttcatc ggataaccca cggatcgtgc attgcagcgc tggtgttggt 480
cgcacgggca ctttcatcgc attagaccat cttttgcggg aactggaatc ggggcagctg 540
ctcaaggtga ccgactcgca aaccgatccc gtttttgaaa cggtcaaccg aatgcgagaa 600
cagcggatga tgatggtata taatgaaatg caactacagt tcatctatga agtgctccgc 660
gagcaggtgg accttaaact tgggaagagg acgagcaatg ccgggcggag attagacgag 720
agatctgcga agatggccaa gttatcgaac agctccgagt atctaccttc ccataaacct 780
gagttggagc ccgtcaatga tggtccctcg ccatga 816

<210> 3357
<211> 540
<212> DNA
<213> A.fumigatus

<400> 3357
agacgacgac ccggcttcgt gtgcgatcat cctcctgaat gtttcagggg cattgttgcg 60
acttgtcaag ctgctgcaca gaattgggag ggaatgatgg ccctccgttt ccttcttggg 120
ttgtctgaat ccgcgtttgg acctggcaca ccgtacctgt tgtctttctt ctatcgccgt 180
catgaactcg gtctgcgtat cgggctggtt ttctctgctg cgcctttggc caacacattt 240
gcaggcgccc tggcatatgg gatcacgtct ggccattcca agttggccca ttggcgattg 300
ctgttcctag tagaaggggc gccctctata gttgcagctt ttcttgcctg gttttacttg 360
ccagatcacc cagcgtctgc ccgtttcctg actgatgaag aaaaagaggt tgcacgagcg 420
agagggctcc ggaagagcgg agagggcgag cgggtagcag gcattgactg gacggatatt 480
ggccgtaccc tgttggatgt taaagcctgg atcgcagcgg tatgttgtgc ttccccttga 540

<210> 3358
<211> 396
<212> DNA
<213> A.fumigatus

<400> 3358
tatacttcct tgggtactca gtgcgtcatc accaattccc tatcgtctga ccagatgcta 60
atcaatcatc tagataatca aggatccgac acccgacgag gtatggggat tgtaattctc 120
aatctggtcg gacaatgtgg ccctttttg ggcaccaaca tcttccccga aaacgacgcg 180
cctcgatacg ttcgaggaca atccgtttgc gccgctttca tgatatttgt gactacccta 240
gcactcactt tgcggtgtct tttggtctgg gagaacaaac gcttggatca gaaatatggt 300
accaagaacg aggaatctac caaaggaggg cctaatggca acgatgatgg cgtggcagag 360
gagaattatg ggtctacgtt ccgctatgtc ctatga 396

<210> 3359
<211> 486
<212> DNA
<213> A.fumigatus

<400> 3359
caggcattga ctggacggat attggccgta ccctgttgga tgttaaagcc tggatcgcag 60
cggtatgttg tgcttccct tgagcctcga tcaagctgtc ctgatacgga attacagttg 120
atgtacttca gctgcaacgt gagcttttct tcgctccctg tgttccttcc caagatcatt 180
aaagacatgg gcttcacgtc gatcaacgcc cagggtctca cagcaccgcc atacttcgct 240
tcgtttcttg ttacaattgc cacaacctgg ttagccgatc gactgcaaca gcgagggctg 300
atgattattt tgttgtcgct cactggggcc attggatatg tgctgcttgc tacatgcacc 360
tcagttggtg tccgttatct cggcgtgttt ctggccgccg tgggagtctt cccctctatt 420
gctaatatac ttccttgggt actcagtgcg tcatcaccaa ttccctatcg tctgaccaga 480
tgctaa 486

<210> 3360
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3360
acgcaatcct ccaaatatgc cgacagggcg aaacggaacc tcgatgagaa atactcgtat 60
ctcgccggaa atgccttcgg gcgagacaag aagggccggg tcaagcgaga cgaccctcat 120
gagatgcagg cgggcgcaga aggaggaggc gccgagtaca ctgcgtatgt gtactacgag 180
tttgaattca attga 195

<210> 3361
<211> 435
<212> DNA
<213> A.fumigatus

<400> 3361
cacatttggt tcagtcggct ggtcagtttt aactcatacg tgtcgctagt ccttcctgca 60
tcgcgtcccg acatcatgtc caagtcgaac aagtacctcc tcgtctcgct ccccacatcc 120
atcactccct cccaccaccg cgatgacgct ctcgatgctg tttctgccac ggtatcaccc 180
gacaatggct ccgtagcacc ctttccaatc ccggaattca agatcggtac tctcgacgct 240
ctggtgcagc aagccgatga gctggcgaaa ctcgaagctt cttgtcaagg cgtcgtcgcc 300
aaggtcggag atgcgttgaa gggcgtcctc gagggagatg agacgcagat cgataagatg 360
aaaactgtca atgatagtat gtccactgtg tctgctgcgt ctgttgggga agggggaagc 420
ctgctcgctg actga 435

<210> 3362
<211> 615
<212> DNA
<213> A.fumigatus

<400> 3362
gtactcgcaa tacaaccagg tgaagaatac gctggcgact cttcaacgca aacaaacgtg 60
agggcatcac ctctttcgct tcaacattct tctaattcat ttctgatctg tagaggaaac 120
ctttccacga aatcactcgc atcagtcgtt gatccccgca ctcttgtccg cgattccgaa 180
tacattgaaa cgcaccttgt cgctgttccc gctcagcaag tgaaggaatt cctcaagaca 240
tatgagacgg tggcgcccat ggtcgtgccc cgatccgcga ccctcgtggc gtcggacgac 300
gagttcaccc tttacgccgt cacgacgttc aagaagcaca gcccggagtt tgtccaccgg 360
tgtcgtgagc acaaatggat tccgcgcgat ttcaagtacg tcgaaggtgg gaaggaagaa 420
gagcaaaagg aggtcgagcg cgttggcggg gacgagcgga agctctgggg tgagaccctt 480
cggcttggtc gaacagcgtg gagtgaggcc gtgatggttt ggatccacgt gcttgttctg 540
cgggtgtttg ttgagaccgt gctgcggtac ggtctgcctc tggatttcgt ctgcacgatc 600
atcagggtat gttga 615

<210> 3363
<211> 762
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (735)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3363
gatgactcag gtgatcctca tcgtcgacga cgtttgttga tgatcttggt gaggacgacg 60
gaccatcctt cctcgagggg gctccccgag catcatttgg tggccctccc accccgtggt 120
gaagactcgg ttcacaacct cttgggcttt cggaaccttg atttgtatcg gacgatagat 180
acttcttcca tactgattca atttctcgta ttcgccctca cggttctgac accttcaact 240
ccgtggttcc agttcctttt tgtcgccaac gcggcagtct ggagaatctg gtattctgtt 300
ggtatcggtt tcgtgctcaa ccgtcagtcg aattgtaagg cctggactcg acactttgta 360
aaatatggcg aaagcccgca ggaggcctgg aatcagtgga aaggcactta tcatatcagc 420
atggttatgt gctacgcgag cttcattgct gccgtctgga agatgtacag ttttcctgcg 480
gattggggct atggccttgt gttgctcaga cacgtcttgg gtgcagggct cattgccttg 540
caaatctgga catccgtcag catctacgaa tcccttggag agtttggttg gttctacgga 600
gatttcttct tcgacgaatc gcccaaattg acgtatgacg gcatttatcg tttcctgaac 660
aaccctgagc gtgttctggg gttggcaggt gtttggggcg ccgtccttat caccagcagt 720
ggggctgtca ctttnccttg ccctgggtgg gccatatttt ga 762

<210> 3364
<211> 699
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (199)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3364
ccccctcccc ccccccccng ccccccgccc ccccccccng ccccgccccc ccccccccct 60

ccccccccccc ccccccccccc ccccccccccc ccccacccccc ccccccccctc cccccgcccc 120
cccccccgcg cgcagcgcgg tatcatcagc cccggcgccg acgacctagg ctcaaaatat 180
ggcccaccca gggcaaggna aagtgacagc cccactgctg gtgataagga cggcgcccca 240
aacacctgcc aaccccagaa cacgctcagg gttgttcagg aaacgataaa tgccgtcata 300
cgtcaatttg ggcgattcgt cgaagaagaa atctccgtag aaccaaccaa actctccaag 360
ggattcgtag atgctgacgg atgtccagat ttgcaaggca atgagccctg cacccaagac 420
gtgtctgagc aacacaaggc catagcccca atccgcagga aaactgtaca tcttccagac 480
ggcagcaatg aagctcgcgt agcacataac catgctgata tgataagtgc ctttccactg 540
attccaggcc tcctgcgggc tttcgccata ttttacaaag tgtcgagtcc aggccttaca 600
attcgactga cggttgagca cgaaaccgat accaacagaa taccagattc tccagactgc 660
cgcgttggcg acaaaaagga actggaacca cggagttga 699

<210> 3365
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3365
aactgctgca cgtgcgcctt gaagccctcc gggtcgttat tggcgtacca gtggattgcc 60
accaagtcaa tcgtgcaggt cctacagtgc tcgaagaact ggtccatcca ccccgtcccc 120
atgttgggcg gcggaccgtt tgtcaccgcg ggcgtcgaaa tgcgcacctg ggccgcgaat 180
ggctgcaggc tcaccaggta g 201

<210> 3366
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3366
gacctgccct cgccctcgcc cagggaaagc gcggtctcgc gtataacgac ggcgccctcg 60
caaatctctt cagcggatat agccacgtca cctggggtta caactggggc tacgagcgca 120
acgggctcgg cgcctccttg gacttcaatc ccatgctctg gggcctgccc tcctcgctgg 180
acccccagtg gaccgccgcc gttcacgcaa ccggcgtcga agccatcctg ggcttcaacg 240
agcctgacct cggctcccaa tcgaacatta gcccggccga cgcggccgcc ggctacctgg 300
tga 303

<210> 3367
<211> 798
<212> DNA
<213> A.fumigatus

<400> 3367
acttgcgcgg atgctcgctc tccagaggtg aagattctga tatctattac catgatcttt 60
aaggccatct ttcccatcct ctatgcacta ggacctgccc tcgccctcgc ccagggaaag 120
cgcggtctcg cgtataacga cggcgccctc gcaaatctct tcagcggata tagccacgtc 180
acctggggtt acaactgggg ctacgagcgc aacgggctcg gcgcctcctt ggacttcaat 240
cccatgctct ggggcctgcc ctcctcgctg gacccccagt ggaccgccgc cgttcacgca 300
accggcgtcg aagccatcct gggcttcaac gagcctgacc tcggctccca atcgaacatt 360
agcccggccg acgcggccgc cggctacctg gtgagcctgc agccattcgc ggcccaggtg 420
cgcatttcga cgcccgcggt gacaaacggt ccgccgccca acatggggac ggggtggatg 480
gaccagttct tcgagcactg taggacctgc acgattgact tggtggcaat ccactggtac 540
gccaataacg acccggaggg cttcaaggcg cacgtgcagc agttctacga caagtaccat 600
ctgccgatct ggatcacgga gttcgcgtcc agtggctccg aggcggagca gattcagttc 660
ctgcaggcgg ttctgccgtg gctcgatgcg cagccctatg tcgagcggta tgcctacttt 720
ggtgtctttc cggggttcct ggtcaacgag ggtggagacg ggctttcgca gctgggacag 780
gtatatgcga cttattag 798

<210> 3368
<211> 480
<212> DNA
<213> A.fumigatus

<400> 3368
ttgacgcatt gcgcggatcc ttccggcccc gtggtgaaga ccccctacat ccagtcctac 60
tttgcgacga cgcactgggc ctaccagaaa ctggccgcgc tcgagaagcg gctccgcgat 120
ctgaagctat tcaagtcgtc ctcaggggac gcgtccgagc ggccgtggtt cgctgacggc 180
gcgaagaacg agcatcagct gaccaccgcc ggtagcatac aagatgacca tatcccgttc 240
cttgcgcgcg gcgtggaaat cctacacgta atcgatgctt cccctatgac agggttccca 300
agtgtctggc attcaatgga tgacgacggt gaacatctag atctggacac ggtggaagac 360
tggagcctgc tctttaccgc atttgccgcc gagtggatgg aattggaaga cttcatgccg 420
gggaatgagg cgcggctcaa ggagaagcga tctcattcgg agaggaagac tgaattgtga 480

<210> 3369
<211> 723
<212> DNA
<213> A.fumigatus

<400> 3369
attagaatgg tcgccggctg cacatcagcc cacatgctct gcgttctttc gcgcctgtcg 60
ccccgctcac tcatcgcaac agccatcttc ttcaccaccg ccctgctgac tgcaaatttc 120
gtcaacggag gccagaatat tccttcctgc ccgtctggaa taccctgtta taccccagtg 180
tacccgtcga ccgaggagct cgcgttcatg gtcaccacca ccgctctgac actcgtgacg 240
aactttgtaa ttgttccacg agtgctggac cggtcgaaga agtcgaggac gatcttttcg 300
tacctggccg ggctgcaatt cggcctggga ctgttcatct ctggaatggc tgatccggca 360
aaagtcctcc gctttttcgc cgtgcttacc gatccagctc gctgggatcc ttcacttgcg 420
ctcatcattc tgtttggaat cggtccgtcg cttgcgactt acctgtccgt gaagcctgga 480
cagaagaagg gagagaaaca aaagggagag gagtctgcga agcctacctt ggcggataac 540
tggaaactgc ctacattgac tatggcggat attgactggc ggtttgtgac tggggccgtg 600
gcgtttggtc ttgcctgggg cttacgaggg gtatgcccgg gtcctgcgat tctgcgtacg 660
gtggtccagc caacatgggg ccttgtcgcg atgacagggt atatgttggg caatcttttc 720
taa 723

<210> 3370
<211> 372
<212> DNA
<213> A.fumigatus

<400> 3370
tgtccttcat cttacaccca ggtacgtctc tttgttgaac gcacttttcc gccattgcgt 60
gctgaggaac tctgcagagg tcgctttgat atcgacatgt acgaatcgtc gttccgactt 120
cgcggcaaaa catacgacta taagattcaa tacgcctcta tcaagaaatt cttcctgctt 180
cctaagaacg acgagatgca cacactcatt gtattaggtc ttgaccctcc tctacggcaa 240
ggtcagactc ggtatccttt cctggttatg cagttgaaac tggatgaaga aatcagcctc 300
gaactcaaca tgacagagtc agttcttccg aaatttcgtt ttgatgtcga ccttggaact 360
aattctctgt ag 372

<210> 3371
<211> 225
<212> DNA
<213> A.fumigatus

<400> 3371

tacgcttgcg cgggctttcg gccccttgg tcaagtaccg gaaaatgcaa gctcgctgag 60
agtggtttgg gatggcgccc ttctggcgga ggtgaaacgt tcacacttga tagcaacaat 120
attggagcag cccagtggag ccgggcagcg aagggatatg aactaaaaat tctatcgcgc 180
tcatcgggtg ttattcaatt agacggattt gatcaagagg tatga 225

<210> 3372
<211> 711
<212> DNA
<213> A.fumigatus

<400> 3372
gacttcgaac gcttgagtaa ggcgttcaag atttggtacg gcatcaatgt tgaaaatcgc 60
gagcatgcac tacgagggtg gaattggggt aaagcagaat tcacaaaggc aaaactcgct 120
ttcaacgttc agaatcgacc tgcctttgaa atcccgtatt cggaaatctc gaacacaaac 180
ctggcgggaa agaatgaagt cgcagtcgag ttcgctctta catcagacgg cgacgccaat 240
gcccaacctt ctggaagcac aaagaaccgc ggtcggaaag ctgccgcggg tccggatgag 300
ctagtcgaga tgcgtttcta catcccggga acggctgtca agacagagaa gggcattaag 360
acagaaaatg atgagaacgg agaagaagag gaagaaggcg aggaacagaa tgcggccaat 420
ctattctatg ataccccttat ggagaaggca gagattggtg atgtcgccgg tgacaccttt 480
gctacgttcc ttgatgtcct tcatcttaca cccaggtacg tctctttgtt gaacgcactt 540
ttccgccatt gcgtgctgag gaactctgca gaggtcgctt tgatatcgac atgtacgaat 600
cgtcgttccg acttcgcggc aaaacatacg actataagat tcaatacgcc tctatcaaga 660
aattcttcct gcttcctaag aacgacgaga tgcacacact cattgtatta g 711

<210> 3373
<211> 978
<212> DNA
<213> A.fumigatus

<400> 3373
agagccgggt ccctttttcat attctttccc aatcttgttc tctgtaggac ctctcaacgc 60
atgagcaagg gttccatcgc tatggatact ccaccagaaa aggattggat tcagctggac 120
catggtcagg tccgcagcgg acttggcctc gtgtcatcca ggacgtctga aaggctcaat 180
caagttgacc ggattcgagc caatggggtg ggggaccaca tcgcgcttcc tcagctggtt 240
gtctgtggcg atcaatcggc ggggaaaagc tcggtgttgg aaggaatcag tggaatcccg 300
tttcctcgcc aggacggagt gtgtactcgg tttgctacag agatcatcct tcgccacgag 360
ccaaaccatc gccgaaacac cgccaccatc ctccctcata tatcccgcac ggaagaggaa 420
aaggcaaagt tgagcgcctt ccgccgcgag gtcagtgacc tcgcgcagtt gcccggcatt 480
atagaagaag ctgccagact gatgggggta caagggatga atgacttggc tgatgcaccg 540
acttttgccg cggatgtact tcgcttggag attgtcgggg atactggctt gcatctgacc 600
cttgttgacc tgcctggatt gatttctgtg tctgaaaatg atgacgacgt gcagcttgtc 660
ggcgatctcg tgaactcata tctggagaac tcgcggtcga ttatccttgc cgtggtcccc 720
gcaagcagcg acgtggacac tcagagtatc atccaacgtg ctcgtcgatt tgacaaggac 780
gggttccgga ctgttggaat cattaccaaa ccggatctca tcaatgacgg caccgagggc 840
cgtattgcaa aattggccaa caatgcagat cggacgaaac tgaggcttgg attcttcctg 900
gtcaagaatc cacggccgat tgatttggag aaggtcttca ccacgggggt ggaagcgaca 960
gcggaggtct atccccac 978

<210> 3374
<211> 525
<212> DNA
<213> A.fumigatus

<400> 3374
attccgtcaa acccccgtgg ccaacggcgt ggtgaccggc gccgcagacg acgcacacac 60
acacgccgta accgacgtca ccggcggcgc cgtacaatgc gccgacgtag tccagggtac 120

cgtggtcggc tcaggcgcac acttattcga gaacttcctc gccttgacca acacgggaat 180
caccgcgccc gtcttgagcg agaaggcccg atgcccaagc acccgcagca gactcgcaat 240
ctcgcccgaa tgcgccgtca cactcacaaa cagatccttg ccatcagtgc gctcaaacat 300
ctcatccagc gcactcttac tccgcgcatc ctgcgccgcc ctcgtctccc cagtcacccc 360
attccacagc tcgtcctcct cactaaaccc ctcttcaatc gcccacccgg gaaacgaccc 420
cgcaatgtac gatcgactcc gccgatgatc acacgtatgc agactaatcc cctcgcgcag 480
cccctccatc accagcggct caaacgccgc agcgtccttg ggtaa 525

<210> 3375
<211> 723
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (36)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3375
tactggtcct tcctagacgg caacggcaca gcaacntggt ccgacgcaga cctcacaccc 60
gcgggagtag cccaggcgca aaccgcccac gacttctggg cttcactgat taccagagag 120
gggatacaca cgccagacgc gtacttcgtc agtccgctga cgcgcgcgct gcggacggcg 180
aatatcactt tcggtgggct agccttaccc aaggacgctg cggcgtttga gccgctggtg 240
atggaggggc tgcgcgaggg gattagtctg catacgtgtg atcatcggcg gagtcgatcg 300
tacattgcgg ggtcgtttcc cgggtgggcg attgaagagg ggtttagtga ggaggacgag 360
ctgtggaatg gggtgactgg ggagacgagg gcggcgcagg atgcgcggag taagagtgcg 420
ctggatgaga tgtttgagcg cactgatggc aaggatctgt ttgtgagtgt gacggcgcat 480
tcgggcgaga ttgcgagtct gctgcgggtg cttgggcatc gggccttctc gctcaagacg 540
ggcgcggtga ttcccgtgtt ggtcaaggcg aggaagttct cgaataagtg tgcgcctgag 600
ccgaccacgg taccctggac tacgtcggcg cattgtacgg cgccgccggt gacgtcggtt 660
acggcgtgtg tgtgtgcgtc gtctgcggcg ccggtcacca cgccgttggc cacgggggtt 720
tga 723

<210> 3376
<211> 924
<212> DNA
<213> A.fumigatus

<400> 3376
aagtactttg actggtactg ggcatacacc ggccgcgatg agacgaaaga ttcctgcctc 60
ggcatgccgc acatctggga cacgtccgcc gggtggacca tccgcttcga cctcgtcgac 120
aaccagggct tctttgacgc gctcgccgcc gagacgggca tcgacgcgtc gtgggtgacg 180
tttggcgacg aaacgtccga ctacgtctgc gcggatccgg gcgacgtacg accgggcctc 240
ggccatgtgc cctgccggaa actctactgc cagaagctga actacccgca gaaggcctcc 300
gatgatgcga tccacgtcgg caacccgaag aagctcatcg aggcgtccct gggcaacgtc 360
accgctctgc gcacgtcgct cctctcgtcc tacctcagcg tggggctgtc cttctacgac 420
gacgggccca acgatggcgc ggcctccgac gcggtcgtcg cctactccat gcccgtcctg 480
caactcgccg aggccgtcag cagcatgaag gacattaaag acatcggcga aaaggccaag 540
gaggaagcaa agaagcaact catcttcaag atcctcagca tcgtcttcat ggtcctcccc 600
tttgtcgggg aggccctcgg ccccctgatc ggcagcgccg cgtccatcgc tcgcattgcg 660
ctcctcatcg gcgaagcggg caacggggcg ctgacggtgg ccgacatcat cgaggacccg 720
tcgtccgcgc cgtttgcgat cctggggctg attgcgggtg ttggcagcgg gacgggcaag 780
ctgtccaagg gggaggcact ggcggatgcg tccaaggcgc ggggtctgtt gaaagccagc 840
gatctggcca agtttccgca gaggtttcgg gatcaggatg ctttggtgca aaagatcgtc 900
aagagcctgt gtgcgaggaa gtag 924

<210> 3377
<211> 228
<212> DNA
<213> A.fumigatus

<400> 3377
acgcaagtgc tgtccttcca ccgcggggtg aagaatcagt taaatagttg ttcgcacaat 60
taccttggat acatagacag cttttctggt aactctggct atcaacataa agtgacctgt 120
actatgattt gcacgctgga cgtggagcag aataacgagt accctgtagt ccgtagatgg 180
ggcagttgtg gacggttcct aggaactggt cgtcatctac ggccctga 228

<210> 3378
<211> 510
<212> DNA
<213> A.fumigatus

<400> 3378
agaaccactc ggagtagtgc tcgggatcgc tccctggaac gctcccatgg tcttgggcct 60
ccgtgcggtg gtggctccaa tcgctgcagg gaatgtcgcc atcctgaagg catgtgccct 120
ccgccaagcg gatgcggaac gcgagattgt ctctggactg actatttcgc agggatccga 180
attgagcccc caaacccatt acctcgtcgc ctcgctgttt caggaagctg gttttccccc 240
tggcgtcctg aacttcctct tgtatcgacc acaggacgcg ccagatattt tcgatgtgct 300
catcaaccac cccgccatca agaaatgcaa cttcaccggg tcgacccagt cgggcgtatc 360
atcgcctcgc aagccgccct ggccctcaag cccgtgttgt tagaactggg tggtaagaac 420
ttcgccgtgg tactcgatga cgccgactta gatcttgcag cccgagagat cactaaaggc 480
gcctttctca atgtaagccc acacatctga 510

<210> 3379
<211> 612
<212> DNA
<213> A.fumigatus

<400> 3379
cttgggtcgg tgaggacaac agagctaaca ttgatgcaga acggtcaaat ctgcatgtcg 60
accgacttgg tcctggtcac gaccgccgtg gcttcggctc tcgaagacaa gattctggcc 120
atcctgcagg atattaatac cccctcagtg ctcatctccc cggcagccaa atccaaggtc 180
gagatgctcg tatccgacgc gcacgatagg ggcgctcaaa tccatgcaca ccccatgggg 240
cacgacgcct cgccgcggag cttccctccc acagtggtaa cggggttgac gcctgagatg 300
aagctgtacg aaatcgagtc cttcgggccg gtggtaggca tcatggcggt tgagagggaa 360
gaacagttta tggccattat cgaggcggcc aagtacggat tgtcgagctc gatattttcc 420
cggaatcact accgctccct tgatctcgct ggcactatca aggcgggtgc ggtccacatt 480
aattccatga ccgtgcatga cgagccgact ctgcctcatg gaggctatgg ggatagtggt 540
tggggtcggt ttggcgctcg ctgggggttg gaggagttca tccagacgaa aatcgtcacc 600
ctgcatccat ag 612

<210> 3380
<211> 633
<212> DNA
<213> A.fumigatus

<400> 3380
accccggggt atttcgggga gaccctcact catcaaggcg accaggttct gcgcaatcga 60
gccaaggaaa tcaagcgcgt gtgtgatgaa gagatccatt gtggcccccg atgggcagag 120
attatcacca acgacgccat cggtctaatc gaggagtatg gcgccctcac cactagtata 180
gccacgggct cactgccctt tatccaacac ggtcatgggt tggtgcttaa agaaccactc 240
ggagtagtgc tcgggatcgc tccctggaac gctcccatgg tcttgggcct ccgtgcggtg 300

gtggctccaa tcgctgcagg gaatgtcgcc atcctgaagg catgtgccct ccgccaagcg 360
gatgcggaac gcgagattgt ctctggactg actatttcgc agggatccga attgagcccc 420
caaacccatt acctcgtcgc ctcgctgttt caggaagctg gttttccccc tggcgtcctg 480
aacttcctct tgtatcgacc acaggacgcg ccagatattt tcgatgtgct catcaaccac 540
cccgccatca agaaatgcaa cttcaccggg tcgacccagt cgggcgtatc atcgcctcgc 600
aagccgccct ggccctcaag cccgtgttgt tag 633

<210> 3381
<211> 618
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (10),(20)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3381
cggcgttttn agtacgcggn tccttccatc cccgtgctga agacacctat tcctcctcca 60
ccgcgacagg atcttaagac tggtctcacc cctagagggt cactcgagcc gtcagaatcc 120
ccgcccggac ccggtccatg ggagtatccc ctatggatgc agggtgacga ttttcgtctg 180
gatgaactcc tccaaccccc agcgagcgcc aaaccgaccc caaccactat ccccatagcc 240
tccatgaggc agagtcggct cgtcatgcac ggtcatggaa ttaatgtgga ccgcacccgc 300
cttgatagtg ccagcgagat caagggagcg gtagtgattc cgggaaaata tcgagctcga 360
caatccgtac ttggccgcct cgataatggc cataaactgt tcttccctct caaccgccat 420
gatgcctacc accggcccga aggactcgat ttcgtacagc ttcatctcag gcgtcaaccc 480
cgttaccact gtgggaggga agctccgcgg cgaggcgtcg tgccccatgg ggtgtgcatg 540
gatttgagcg cccctatcgt gcgcgtcgga tacgagcatc tcgaccttgg atttggctgc 600
cggggagatg agcactga 618

<210> 3382
<211> 210
<212> DNA
<213> A.fumigatus

<400> 3382
ttccgggaaa atatcgagct cgacaatccg tacttggccg cctcgataat ggccataaac 60
tgttcttccc tctcaaccgc catgatgcct accaccggcc cgaaggactc gatttcgtac 120
agcttcatct caggcgtcaa ccccgttacc actgtgggag ggaagctccg cggcgaggcg 180
tcgtgcccca tggggtgtgc atggatttga 210

<210> 3383
<211> 1722
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1373)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3383
tcactcaatt gcggatccgc ccatccccgt gtgaaaacga tatatactgc cttctcccag 60
ggttctcatc aggcttactc gcccttgaac tctcacgaga gccaggaaat cattcttctt 120
tatcctgata aggccttgca gacttcgaag ttagtcttcg caccttgcgg aactcccccc 180
ggcatcaagt ttgtggccga aggccttgca agaaaagccg ccttgtcgac cacgagcaac 240

tcactgcttt ccttggccaa gatctatcaa gacggcatgt ccaatatttc cggttcgggc 300
attcctaaga aatctcctgg cgttcgagac atcttggcac tctattacct ctccctgtcc 360
cttcaaccga gtccctccac tgccaataac gttggaatct tgcttgctgg aatccagaac 420
aatgctgccg gcaagagcct ccctcgttca agcggggaag cacaacaccc tgaggttcct 480
ggagtggtac ccggaagtgg gatttcactg gcgctagcat attacaacta cggattgcat 540
ctcgattcgc gacacgcaca tctttatacc aatctgggta gccttcttaa agacatcggg 600
cagctccagg cggccatccg catgtacgag caagcggttc agtgtgatgg taactttgat 660
attgccttgg ccaatctggc aaacgccgtc aaagatgcag gccgagtcaa cgatgcgatt 720
acctactaca aacgtgccgt caaagtgaac cctgaattcg ctgaagcagt atgcggactg 780
gcaaatgcct tgaattccgt ctgcaactgg gtcggacgtg gaggtattgc caatgggtat 840
ggtttccgcg accgatggca tgtcactgag caagggatgc tccgtgatgc atctacgagc 900
gaaaccggct ctggctggat acagcgcgtc gttgatatag taaatcgaca gctcaaggag 960
ggggagtcgt ggggtcttgg tctactgtca cctaacacga tagagcaact gtgcgttcag 1020
atcgctccgg cattggagag tcgccgctcc gcctgcgggt ctttggccac catactacag 1080
tcttgggctg gacaaaggtg ggagggttcg cggatcgtca aattgatcga gcgtgcaaat 1140
cgttcgatca cctggcagtg gtaccaggac cgctatatct acggcaagga atacccgcta 1200
accaaatatc aacggccgca actcccatcg gggctcacag tgcccaatgc accaactgtt 1260
ctccccttc acacatttac ctgtccgctt tctgcgaaac agatccgtca gatttctcaa 1320
aggaatgggc ttcgaatctc gtgctcgacc ctacgttctc cgtggcttcc agntacggtg 1380
tacccaccgc cgccgcctcc aaatccatat ctgaaggttg ggtatgtttc gtcggacttt 1440
aacaatcacc ctctcgccca tttaatgcaa tctgtctttg ggttgcacaa cccgtccagg 1500
gttaaggcgt actgctacgc gaccactgca agcgacaaat ccgtgcatcg tcagcagatc 1560
gagaaggaag cacccgtgtt ccacgacgcc agctgttggc ccatcgagag acttgtgaag 1620
cagatcgtcg acgatgggat ccacatcctt gtcaatctca acggctacac acggggagcg 1680
cgtaacgatc ttcaccagca gggcgaagct cacgcatggg ag 1722

<210> 3384
<211> 810
<212> DNA
<213> A.fumigatus

<400> 3384
gtcagagaag tggaccggca tcgcagcaac gaaggccccg gcttcagaag aagctcgccc 60
gcttggggtg agggacgctc tcaggatggc tcgagacccc cgcgccgcga attccaggag 120
cgcaccccca ctgccgccga actcgataac tcatggagag ccaggatgcg ccccgatcag 180
ccccctgcca aggaacccag taaccctcgt tctcccgccg atactcccgc atcccctgcc 240
gcccccgcct gtcgccgtaa gttgaacctc cagaaacgga ctgtcaccga cactccgtcc 300
agccccgctc ccagcactga ttcgaaagct agcccattcg gtggtgctcg gcccatcgat 360
actgccgcta gagagagaca agttgaggag cgtcgtcaac tagcgctccg tcagaagaag 420
gaagctgaag agaaggccaa ggccgagaaa gccgagaagc agcgtcaatc caaggagcag 480
gccaagagcg agaaatctgt gcctgccgcc gatcccaacg gcaaggacag catggacatc 540
cctcagggcg gcaagaactt cgagatcctc cggcaggccg gtgaggatga aggcggcgct 600
gccgaacaag agcaaccgga agaagctcct gccgccgctg cgggtgatga ggcctcgaag 660
caggctcccg ccagcaagac gaacggtaac tggcgaagcg gaggtcctac ccagcccgcc 720
gaggctgccg cagacgaaga aggctggagc actgtcagct cgaggcaacg caacaaccgt 780
cgtggacagt ctggacgtac attcgcatag 810

<210> 3385
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3385
aaccctgcga ttttaccacc aggacccctt cgaagaatgc aggagcatta cctggcaggt 60
tcactgacca tatacaggca cgtgacgctt ctcatctctg ttttccgtta tctgttgtcc 120
tatgtcacct tcaactacta ctcctctgct gcacaggtga catatcgtct ggcatttatt 180

gcggctgccg gaacatacgg aattgttgtg tacaaggcac acatcgcccg aggccgcctc 240
cagggcagcg ttccgtct 258

<210> 3386
<211> 1389
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1355),(1356)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3386
tacgccatgc gcgtgtcctt ccagccccgg gtggtgaaga cgatcacgga tttcgtccgc 60
taccgcaatg cgacccggga catgaacgag cgctaccccg atgccacgcc tgaggaggta 120
gcaagagaag atgtatgtat catttgtcgt gaagagatgg ctcattggca ggagcctgcg 180
ggcgttggtg agggtggggc agcacctgct cagccaaggc ctcggattcc cgaaagatta 240
cgtccaaaga aacttccctg tggtcacatc ttacattttt cttgccttcg gagttggtta 300
gaaaggcagc agaattgtcc cacctgccga cgtcccgtca tggcgcctac gcgtggccgc 360
gatccacttc ccgcaaatat caatcttggt caaggcaacg gtggcgccgg tccgcaacca 420
aacgtgccgg ctggcaatca gccttttggt cagaatggac cggctgataa cctaccgaga 480
gcccgtatat tccaatttgg accattccgg attggttttg gagctggtcg gggtgatctc 540
ttccgcaatt tccaccaaca aattcatcaa ggcaatgccc cggcgcaaca agcgaataat 600
ggaatcccgc ccggtgcaag gcaaattgga ttcgggctcg gttttggacg gccaaccccc 660
gcgccagtac cccaagctct cccgacaaat acgccatcga actttgtgca gatgcaaaat 720
cagcttcacc agatggaatt gcagataatg caggaaatca acaacctccg tgttactgcc 780
gaacagttgc attatgtgcg actgcttcaa gcagagctac aaagacttcg caatccgcct 840
gcagcttcca gcgacccgaa caccaccata accccagcat ctactttcca accttcttca 900
tctttgtcag ctacattacg tcggcaattc acttcggacc ctcaagcatc ggccattcca 960
tccggcgatt ctcgactccc agagggcctt agcctcccag aaggctggtc tctcattccc 1020
ctccaatcgg ctggacaggg gccaagcggt atctcgagtc cagttcctac aactgctcca 1080
gaacctatcc ccacggtgca agtgcgtgag ggtccctctg tcaccgagaa ctcggcgtcg 1140
gcagcgggca tgaatgggga aagctcgagt acagttgatg cagccagatc tcctacttcc 1200
tcgctgcctg actggggctc tgaaactccc acagcagcag cgcattcgta tattgaatca 1260
tcacctcaaa atttggacaa agagctcttt gggaagccgt cagaaacaaa ggaatcgtcc 1320
gcatgggatg atgaagcccc gaatacggac ctttnntaca cgcctgggca gaagcatatc 1380
gtaacccca 1389

<210> 3387
<211> 228
<212> DNA
<213> A.fumigatus

<400> 3387
tggttaacag gtaaagcggg tgattgtaca aacagtgctg gcacgctttc attctcggaa 60
atcgaagcaa ttctaaagga tgcgtctcgc aatgccaccc agacctatga cgaagcctct 120
tcggttcaaa tcgtgacatt tgatgggaat caatgggtga gctatgataa ctgggcttcg 180
tttcaggcta agttggacta cgcaaattcc cattgcattg gagggtag 228

<210> 3388
<211> 765
<212> DNA
<213> A.fumigatus

<400> 3388

tatgttcccc gacccggaac aagtcataac cccggatggg gaaaatttgc gtcgattgac 60
cagcactttt gcgtgttgga ttgcgagact aacactttta ttgcggatca cgagctctcg 120
cgagccaatc aattgcaccc cccacgtccc cggatgggcg gttgcgtgtg gtcattgggg 180
gattccccag atgcttgggt agtagaagca gacacaggac gaccagtgca gccgcttcgt 240
ggtcatcgcg atttcggatt tgcgtgcgca tggtcgccag acatgcgaca catcgctacc 300
agcaaccaag acaagactgt gatcatttgg gacgcgcgca cttggcgaat cttacaaacg 360
atcgagtcag acgtagcggg gtatcgctct gtacgattct ccccggtcgg tggaggccca 420
cgaacgctgc tactggccga accggcggac cggatcgcca tcgtcaacgc gcagacgtac 480
cagactcgac aggtccatga tttctttgga gagattggcg gagcggactt ttcgccggag 540
ggcagcacga tctgggtggc gaacacagac gagcatttcg gtgggttcat ggagtttgac 600
cgccgacaat ggggccagcc gtacggacca cgggggcttc ccaatgagtg gatacgtgag 660
gcagacctcg acgaggacga gcgatgtgtg ctcagcgagc gggagcggca gatgaggttc 720
tggtggaatc tgagcgatga agagcacgaa gcattgctgt tgtag 765

<210> 3389
<211> 669
<212> DNA
<213> A.fumigatus

<400> 3389
caattttgta taggtgctcc ggtttacttg gccgctgttt tggagtatct cgctgctgaa 60
atcctggagt tggctggcaa cgctgcccgt gacaacaaga agactcgtat cattcctcgc 120
catctccagc ttgccattcg taatgatgag gaattgaaca agctgcttgg ccacgtgaca 180
attgcgcagg gtggtgtctt gcccaacatt caccaaagta ggtttcgcac tttgttctcg 240
tcttcgctat attttctaac aaatttccag accttctacc aaagaagact cctaagagtg 300
gaaagggtcc tagccaggag ctttaattgt cctatttttc tttctttcct gttcgggttt 360
ctcaatcggc gtgctttggt ttctcatgat gtgataacgg ggttctggac tgggcacaat 420
tatggctctg tttttcatgc ttttacttat ggttgtacat tatgcttacg ggcattgaat 480
gataccgaca gctttcttaa tgaaatttgt ctttcggaga cgatgggaat attagtaaat 540
ctaacgctaa gtagacataa gggcctgtac cttcagtcgt tcttacagta caccactaaa 600
gcatttctgc actttaacat aaatgttcaa agcaacgtcc aggacagaag tttcgaagta 660
cgttattag 669

<210> 3390
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3390
atgcttctca acattcagat gcccactaag cttggacggc gtactagatc catgtatttg 60
cgtcaattgg atgagaccac aatgagttcc ctactcgaag atagacatgg cgttctaata 120
acgtacttcg aaacttctgt cctggacgtt gctttgaaca tttatgttaa agtgcagaaa 180
tgctttagtg gtgtactgta a 201

<210> 3391
<211> 525
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (18)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3391
ctcggaaatt ctgaattntg ggggacccag gacgaatata cgtcttcaga aagcgccgat 60

gaggatgagg agggaaatga ccctgacgac aacgcggatg aggagcacaa ggcggaatcg 120
gaccttgccg ataagggcaa agctgaggtc tcccctccag gctcaccgtc gcaacgaagc 180
gaacagacaa cccagtcttc aggatctcaa gccgcctctc aatatcttcc gttctccatt 240
ctatccccag accctcactc cctcgaagct ggggacgagc cagttggtcg caaatttccc 300
tgggggtttg ccaacccgta cgaccccgaa cactgcgatt ttgtgaagct caaggactct 360
gttttcaccg attggcgcac tgaactccgc gaagccagtc gtgttgtttg gtatgagcgc 420
tggaggacca gccgtctgaa ccgcaacggc atctccgcct cgccgatgca aaagatttac 480
agtgggcgaa tgggcccttc ccatgacggc cgccgaacac ggtag 525

<210> 3392
<211> 546
<212> DNA
<213> A.fumigatus

<400> 3392
gcactgcgac caagctggcc ctctacggta tctttggatt gggtcttttg ttcgtcgttc 60
ccttctaact cagtagctaa tcgcatggcc gctaactgtg gcagtatctc cgcgatcacc 120
atcatccgca tccgcgtcct taccaccgtc gacttcttcg atctcccata ctcgatgatc 180
tgggctgcgt tttggagcgt caccgagccg gccctggcca acttgaacgc gtgcgtgccg 240
atgctccgac ccgtcttcaa ggccgcgttc ccgaccctgt ttgccagccg caaaatgtac 300
tctacgcagc cggggtctgg agcctccggg atcaagaaca aagctttcaa gcgcatgaac 360
gaggtcgaaa gtgaccttca gctgacgaat cttacgcagt tggagccggt tcgaacaagc 420
cgcgagggga gaatatcgga acatggcgac gacgggtcgc acgatgatcg gtcccaggat 480
ggccgttcgc aggatgagtc gacccatgtc ccgaggagtg tcattgtgaa caggccttgg 540
acttag 546

<210> 3393
<211> 396
<212> DNA
<213> A.fumigatus

<400> 3393
gcgcgtttcc ttccagcccc gtcgcgtgaa gacaacgcca tggtcctcgc caaactgagc 60
tatctcttct tctacctccg catcttcgtc acaaagggct tccgcatcgc cgcctgggtc 120
tgcatgggct gtgcctgtgc ctactggacc ggcagcatgc tccagatctt cttcatctgc 180
cagcccttcc agaagaactg gaaccccacg ctaccgggcc actgcgccag ccagaacgtg 240
gccttctcga ccatcggcgc cttcaatctc atcacggacg tcatgatcat ggtgttgccc 300
ctgcacttca tctggaagtt gcagatgagc actgcgacca agctggccct ctacggtatc 360
tttggattgg gtcttttgtt cgtcgttccc ttctaa 396

<210> 3394
<211> 813
<212> DNA
<213> A.fumigatus

<400> 3394
cggaccccat ttattgtcct ctgcatctat gtgtcaattc atctttttgg ggttttggct 60
gacatttgta ctcaattttc cagtctcgaa accagttttg cttcccactg gctgcacgaa 120
accacactcc cgttagccaa cctttgtatt cgacttcccc agacctttca gagacgccct 180
ttcagccaat ctctatattt tttttttctc ctagattgct gtgctcgtgt cgcgccattg 240
cctatggagg tggccgcaag tcgagactca gctcctgttg gtccgcctac agggcctgat 300
gccacaatca ccaatggcga ccaagatctt ctactggatg attcgctcat ggacgatgga 360
cgttcaagta gtctgagcga catcgacgat gtcttggata atgaaccctc ggactacgaa 420
gagtcgccca agcccgagaa gttagcagca gagaatgact ctgaagctga gacggagcgc 480
atcgaagatt ccccgaatca ttttcgcaga accaacattg tcgtgagcag ttatggccct 540
agccccagca aattggccca atcgacgacg tacgatgatg ccgtggacgg ggacgaccaa 600

attgaggatt caccgagcaa acctcgctct aagcccaacg gaatccttga atccgccgaa 660
gacatactcg gtttggaaga ctctacatta tccgaaagtt acgggaaaag aagcgcaaaa 720
cgacccgagt ctggcgcgga tgtggaaggc gagacgggtg gacgaagcga cccgcctcaa 780
aaaacccggc gggttcgtga aaaagtgaat tga 813

<210> 3395
<211> 315
<212> DNA
<213> A.fumigatus

<400> 3395
tcttttctat acaccatcac tgagatgcga ctgccatgtg cccctagcct tgcactgagg 60
gcagcgcgga cgccattggc gttcgcccgc aatggccaga agcactcact gcataccggc 120
acctacaacg ccgctgttat aggaggtggc atcacaggtc ttgcgacggc cttccgcttg 180
tcgcaggacc caaaatgcac ccatatcacc ctgtacgaga aacaacagcg agtcgggggc 240
tggatgatgt cggaaaccat tcctctcggc gacgatgatg ggaatcttca ccacggggtg 300
gaaggaccgc gattg 315

<210> 3396
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3396
ttgaacattt ctgagagagc tgatggctac agttgctcat tgatagacga gaatttacgt 60
gtgacacatt tcgaaaccgt tcatgactac ctaaccagag tctaccttat ttacaagaca 120
accaacatga tgatgttctg tcattacact gctcccatgg atgaattggt gagaaatcaa 180
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<210> 3397
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<213> A.fumigatus

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gtaaaggagg tcatgagtca tgctgcttat ctatgcctct ttagtatgat gtgtatcatc 180
atgattgcac tacaagtgac ggacgtacta tgtacctatc aaggcaggtc attctgtgac 240
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<210> 3398
<211> 636
<212> DNA
<213> A.fumigatus

<400> 3398
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ccgcagtatt tgcaacaacc gcagcagcta ctgtataaca atgccgactc aaacgtttcg 180
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caacccatgg tttctgttgc aggcaacagc aaccgttccc cagctgtcgc aagcgcctca 480
acgtctgcac aatcaacacc cgcgccatcg acacaatcgg catatcagac agccccaacc 540

ctaaacccaa ggaataatgt cttcaaccag tactctcagg ttgctcttcc agcgccttcg 600
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<210> 3399
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3399
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atatatatat atatagttaa ctataagttc tcctttatta aagtctgcaa taaaacaccc 180
actctaatta tagtcactta ttatacttat atagggatta tctctaatac taactttatc 240
actgcctact aa 252

<210> 3400
<211> 396
<212> DNA
<213> A.fumigatus

<400> 3400
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<210> 3401
<211> 417
<212> DNA
<213> A.fumigatus

<400> 3401
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<210> 3402
<211> 312
<212> DNA
<213> A.fumigatus

<400> 3402
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tgtgcgtggt aa 312

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<210> 3403
<211> 561
<212> DNA
<213> A.fumigatus

<400> 3403
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<210> 3404
<211> 1341
<212> DNA
<213> A.fumigatus

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<210> 3405
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<212> DNA
<213> A.fumigatus

<400> 3405
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tggtacatca acgaagagaa cgtatatgtg cttcgatcgg taaagggcgt ttgtgcgtgg 180

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aacatctgca ggtcgattat cgctcgtgaa ccgccgcctt tcctcgggga ggcggcccct 300
attttttttt ctctataa 318

<210> 3406
<211> 264
<212> DNA
<213> A.fumigatus

<400> 3406
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acatcgctat ctgaaatcat tctcagtctg gtctgcatca ctggatctgt gaaatcttac 180
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tgtcaacatt cacagggtag atag 264

<210> 3407
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3407
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ggaaacttaa gcggatgtct tcacaccatc gactggggca agggctccta cggccactgg 120
atcggagacg ccaaagcaga taacgtcctg atctggtatc acggtcagca tcactaccat 180
ttgtag 186

<210> 3408
<211> 648
<212> DNA
<213> A.fumigatus

<400> 3408
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<210> 3409
<211> 1137
<212> DNA
<213> A.fumigatus

<400> 3409
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cgcgagtgtg cttacgtttc aactaagtct gaaatggctc tcgcttgtac gcctctcgca 180
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<210> 3410
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3410
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ttcctcctca ctaacggcga cttcgaaggc gtctctcaaa cacgcatgat gaaagaattc 120
aaaggcgaaa ttgtctataa ccaggaggta agcctgcagg aatcgtgctc gcatctgcgc 180
ttgcgctaa 189

<210> 3411
<211> 375
<212> DNA
<213> A.fumigatus

<400> 3411
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cctccacagg ccgggattgt cttcaaacag ttgaatgtct cgggatctgg ggccgccctt 120
cagctacagg acacgcttgg ctcgaccttg gcgttgccct ttcgactccc ggaactgctt 180
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ggcgaactgt tgctggtgct tggacgtcca ggagcaggtt gcagcacctt cctcaagaca 300
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accaatatct tctga 375

<210> 3412
<211> 240
<212> DNA
<213> A.fumigatus

<400> 3412
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gtagataagc acttcctcca tctttctgtg ggacagacac tcgagtttgc agccgccgct 120
cgcactccct cgcaccggtt tcacgatatg tcccgggacg agtatgccaa gtacgcagcg 180
caggtgatca tggcggtatt tggcctgagc catacttata acacaaaagg ttggaaatga 240

<210> 3413
<211> 291
<212> DNA
<213> A.fumigatus

<400> 3413
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<210> 3414
<211> 234
<212> DNA
<213> A.fumigatus

<400> 3414
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agattccgga tgtggcggtt gactatgaac gggtgtcgcc tcaggcgccg caggggaccc 180
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<210> 3415
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3415
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tga 183

<210> 3416
<211> 561
<212> DNA
<213> A.fumigatus

<400> 3416
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<210> 3417
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3417
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ttcgtcaacc cttga 195

<210> 3418
<211> 297
<212> DNA
<213> A.fumigatus

<400> 3418
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<210> 3419
<211> 189
<212> DNA
<213> A.fumigatus

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<210> 3420
<211> 513
<212> DNA
<213> A.fumigatus

<400> 3420
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<210> 3421
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<212> DNA
<213> A.fumigatus

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<210> 3422
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<212> DNA
<213> A.fumigatus

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gatcaacggc attattctaa ctttaaaagc aaatcaacag cctgggggca tcagccgaag 1560
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gtttcatcag atgcctgcta tgctactgcc tcttcaaatg agagctgcaa tgctgtctcc 1680
aagctgcctg acaccgcttc agaagctgga cgtgtttatg aaagtcgtcg aatccacgaa 1740
gaagctggag aagcgactta tatgccagat ctgcacaatt ggtggtctac accacgtgcg 1800

<210> 3423
<211> 285
<212> DNA
<213> A.fumigatus

<400> 3423
catcggatac tcgttctagc cgaccccgtt caggagctct acctgcgcca actccaggcg 60
tacaagccca cgcccatcaa gcccggcgat gctgaggccc acgtccagaa gttctccgct 120
cctgctgcgc cccagtcccc cgaggaggcc aaccttgcca acgatttgaa ggcctacgag 180
agccaggatg ttgaggttga gggtcaggcc gccgccggtg aggccgcccc cgttgaagag 240
agctggttcg aggaggagcc tgaggaggag accgctcacc actag 285

<210> 3424
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3424
gtaaagacaa tgttcaactt aaatttcata tcatctaccg agttccagat catggtaagg 60
aatgtgcatg ctgtgattca agcacagtgg ctattgcaca atggtactgc ccaatatatg 120
cacccgccta accatttctc gtccattacc aaggccatga gcctcctggc gcttcgaatc 180

aagatgagct aa 192

<210> 3425
<211> 333
<212> DNA
<213> A.fumigatus

<400> 3425
acacaagttt tacgttgtat accaatacca tcatcaatat gtctgacacc ggccgcaagg 60
atttcaccac cagtaggcgc cccagcccaa acaacacaga tcaattctca ttccgcaaca 120
gaggctcagg agaagatgac tcctgactcc caaaagtcca ccatggacaa gatgaaggaa 180
accgtcaccg acgctaccga ccgcctcaca ggcagcgcgc aaggcgacag ccaaaagtcg 240
tactcgcagc aggcctatga ctccattcgt ggtggagcgg acaaccagac ccatggtagc 300
agcaccgaga caatgtatgt tccccccgtc tga 333

<210> 3426
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3426
tgtgccggtt ccgtgtacgt cggttccggc ggatgttgtc cctactggag tctgtctaag 60
tcgggccgat acccacttca gactcttgtg cacttgtgca ttcgtctaga cgtctactgc 120
tccggtcacg aagtctgtat tgaccaaaat ggcgcgccta cagagtatgg cagaatacat 180
cgcttcactg atgtggggta g 201

<210> 3427
<211> 528
<212> DNA
<213> A.fumigatus

<400> 3427
gtacattact ggcagcacgg ccgtataggg cgatatgttg tggaaagccc aatcatcctg 60
ggtcacgagt catccggcat tgtggtagaa tgtggaagca aatctgggtt tgctgtaggc 120
gatcgtgtcg cactggagcc cggcgtcgcg tgcaatacct gcagccattg ccgtgcgggc 180
agatacaatc tctgccggga gatgcgcttc gccgccactc ctccctatga tgggacactt 240
gcgacttact atctcgttcc agcagagtgc tgctataaac tgcctccaca catctcgcta 300
agagatggta cccttgatga gccgctcagt gtggctgtac acagttgtcg gctcgcaggg 360
gaaatgcagg ggaaaagcag tggtcgtttt cggagcaagg ccggtccgct tgctctgtgt 420
ggccctggcg cgtgcgtttg gagcggcaac tgtacttctt gtgaacgttg tgcccaaaag 480
aatcgggttt tggctgaaaa acgggccacc ccttccttac cagatgac 528

<210> 3428
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3428
tcttggtcga gtctttgtcc ctcctgctca cctcgaatca cccaggcggt aaaccaggcc 60
tttgtcttgc atcccggagg gtcatttcac tatgagcagc gcgctgtacc taccctggga 120
tcagatcgag atgtgcttgt ccgagttgta gcaaccggct tatgtggttc agatgtgggt 180
gcatcactcc cttga 195

<210> 3429
<211> 225
<212> DNA

<213> A.fumigatus

<400> 3429
gagatggtac ccttgatgag ccgctcagtg tggctgtaca cagttgtcgg ctcgcagggg 60
aaatgcaggg gaaaagcagt ggtcgttttc ggagcaaggc cggtccgctt gctctgtgtg 120
gccctggcgc gtgcgtttgg agcggcaact gtacttcttg tgaacgttgt gcccaaaaga 180
atcgggtttt ggctgaaaaa cgggccaccc cttccttacc agatg 225

<210> 3430
<211> 1029
<212> DNA
<213> A.fumigatus

<400> 3430
ggattcgaat gcacccccgt tgatccttcc agccccgtgg tgaagacaca gttggaaaga 60
agaagaaaaa gaaggggaag gtatggcacg ttccaacggc ccttgaggca tcgtctttta 120
actcgtgagc aggaggtcga tccgccggcc gttgaggcac catcaaacgg ctttcaggat 180
gtcagtctga acgatagtgg ggcccctcag ctagacctgc ctcttgatcc tcctgcaggc 240
agcaatggtg gcgttggctt caatttcgga ggatggggca aggattggaa caccggaagt 300
aaatggggtc tcgactctct caacatgaat ggcaacgcca atgccgatga tggaaatggt 360
accaaccctt ggggtcctat tggcagtaag aaagacactt caaagacccc cggtggcttt 420
gatttcgggg actttggaga ctcaggtgat gccgtgcagg aacctcctgc agaaaagaag 480
aagcccgaag aggatatttg ggctgatttc gcgcccgtta gcgccaagga taagaagaag 540
aaaaagaaag atcttgtgga ggaaatcccc aaggaacctg agcctgagcc tgagcctaaa 600
ccgctaccag ctcctgaacc agcacctgcg gtagatgata gctggatggc cggtctttcc 660
aagaaagaaa agcgaaaggc gaagaaaaat gctaaagttg ccgaggagcc gccggcccct 720
gagcctgtca ttgaagaacc gaaaacagac aacgtgtgga gcacggctga ggaaaagaag 780
gagccagaaa aggcgcctga gatggccgat gataatgact ggggctgggg tgttccaacc 840
aagaagaagg acaaaaagaa gaagggcgta ctggagacag tcgctcccgt ggagtctccc 900
acccctgaac ctcccgctcc cgagcctgcc cccgcagaag acgattgggg aatcgcttgg 960
ggatcaattg gcaagaagga caaaaagtcc aaaaaggggg cggttgtcga ggagcctgca 1020
cctggtctt 1029

<210> 3431
<211> 822
<212> DNA
<213> A.fumigatus

<400> 3431
agaccaggtg caggctcctc gacaaccgcc ccctttttgg acttttttgtc cttcttgcca 60
attgatcccc aagcgattcc ccaatcgtct tctgcggggg caggctcggg agcgggaggt 120
tcaggggtgg gagactccac gggagcgact gtctccagta cgcccttctt ctttttgtcc 180
ttcttcttgg ttggaacacc ccagccccag tcattatcat cggccatctc aggcgccttt 240
tctggctcct tcttttcctc agccgtgctc cacacgttgt ctgttttcgg ttcttcaatg 300
acaggctcag gggccggcgg ctcctcggca actttagcat ttttcttcgc ctttcgcttt 360
tctttcttgg aaagaccggc catccagcta tcatctaccg caggtgctgg ttcaggagct 420
ggtagcggtt taggctcagg ctcaggctca ggttccttgg ggatttcctc cacaagatct 480
ttctttttct tcttcttatc cttggcgcta acgggcgcga aatcagccca aatatcctct 540
tcgggcttct tcttttctgc aggaggttcc tgcacggcat cacctgagtc tccaaagtcc 600
ccgaaatcaa agccaccggg ggtctttgaa gtgtctttct tactgccaat aggaccccaa 660
gggttggtac catttccatc atcggcattg gcgttgccat tcatgttgag agagtcgaga 720
ccccatttac ttccggtgtt ccaatccttg ccccatcctc cgaaattgaa gccaacgcca 780
ccattgctgc ctgcaggagg atcaagaggc aggtctagct ga 822

<210> 3432
<211> 219

<212> DNA
<213> A.fumigatus

<400> 3432
ttgggtcaac gctcgaacaa gcggcctttc tgcaacaatt cgatcaccct tctgatgcag 60
tcactggagg cattgtctcg tcctataatg gtgtttcatc tcgtcactgc tctttggatg 120
aattttaaaa ctaacatgct acatgaggaa ctattctggg gtctattgca gccccctaca 180
tctgcgaccc ctttggccgc cgcccagtca tgtatgtag 219

<210> 3433
<211> 651
<212> DNA
<213> A.fumigatus

<400> 3433
aaaaggccgc aaggacgccg gcaaagccgt gctcaaccgg ctgcatctca accgcacccg 60
caccaacacc gacctcatcg agtccgagtt cacccagatc tgcgagagta tcgcctccga 120
ctcccgcacc gtcgtctcct cctggcgcca gctgctgttc tcctcgccca cctggcgcca 180
ccgtgtgctc ctcgcctgcg gcatccaagc cttcacccag tgctccggca caaacgtcat 240
acaggtctac agcccacgca tctaccgctc gctcggcctc cccacctcca ccaccctcat 300
gatcaccggc gtctggggag ccctcgccca gttctggaac accgtgttcc tgctgttcat 360
cgaccgcgtc ggccgccgca agctcctcat cccttctctc ctcggcatgg gcgccgccct 420
ctgcgtcgaa gccaccctcg cccgctacta cggcaacttc ggcccggacg cggactcctc 480
ggtatctgcc tcacccgcag ccctccgcgc cgccatcgcc atgttcttcg tcttctctct 540
ctttttcacc gctctcggcc tcatctcctg gctgtatccc gccgagatct tccccacggc 600
catccgcgcc cgcggctcgt ccatcgcgac cgccacaaac tggagcctca a 651

<210> 3434
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3434
gggacgcact gcgtgatctt ccagccccgt ggtgaagaat ttatcatgac ctttttactt 60
gtcactctct gttgtatctt agccactcta ggatcctttc tctttggcta cgattcgggg 120
gtgattgggt caacgctcga acaagcggcc tttctgcaac aattcgatca cccttctgat 180
gcagtcactg gaggcattgt ctcgtcctat aatggtgttt catctcgtca ctgctctttg 240
gatgaatttt aa 252

<210> 3435
<211> 255
<212> DNA
<213> A.fumigatus

<400> 3435
ggaactattc tggggtctat tgcagccccc tacatctgcg acccctttgg ccgccgccca 60
gtcatgtatg taggcactct cctggccgct ctgggggctg ctctccaggc tggagctaca 120
cacgttgcca tgttgattgt tggccgtgtg attgctggct tttccatcgg cttgatggcg 180
accaccatcc cgatctactg tgtgagcgct ttccaacaac cgttatccta cacacgtgac 240
atgctcttct gctaa 255

<210> 3436
<211> 795
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (9)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3436
ctggtgtanc aatgggtcgg gtatggctgc tctctgcaca cgggtgcttt ttcctggcgg 60
ttccccctag ccatgcaagc agttcccgcc gtcatcctcg gcactggagt ctggtttctc 120
ccagagtcgc cgcgatggct gattgaaaaa ggccgcaagg acgccggcaa agccgtgctc 180
aaccggctgc atctcaaccg cacccgcacc aacaccgacc tcatcgagtc cgagttcacc 240
cagatctgcg agagtatcgc ctccgactcc cgcaccgtcg tctcctcctg gcgccagctg 300
ctgttctcct cgcccacctg gcgccaccgt gtgctcctcg cctgcggcat ccaagccttc 360
acccagtgct ccggcacaaa cgtcatacag gtctacagcc cacgcatcta ccgctcgctc 420
ggcctcccca cctccaccac cctcatgatc accggcgtct ggggagccct cgcccagttc 480
tggaacaccg tgttcctgct gttcatcgac cgcgtcggcc gccgcaagct cctcatccct 540
tctctcctcg gcatgggcgc cgccctctgc gtcgaagcca ccctcgcccg ctactacggc 600
aacttcggcc cggacgcgga ctcctcggta tctgcctcac ccgcagccct ccgcgccgcc 660
atcgccatgt tcttcgtctt ctctctcttt ttcaccgctc tcggcctcat ctcctggctg 720
tatcccgccg agatcttccc cacggccatc cgcgcccgcg gctcgtccat cgcgaccgcc 780
acaaactgga gcctc 795

<210> 3437
<211> 1335
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1234)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3437
tcgcgcgccc ttccgcccct ggtgaagacc gacgagagac acatccgata ctgtcccgtg 60
tccacagaaa ccatggccgt gtctcatgtc tggagccacg gtcaaggggg gcgacctgag 120
actgggttca acatatgtct ccatcgcaga tataccagac tggcacgggc gttaggctgc 180
acttcatatt ggatggacac tccttgtatc ccaacagatc aggagctgcg gtacgaagcg 240
atgggccaga ataacagtaa cttcctcaat agcaaggtca ccttgctagt cgaccgagac 300
ctcatggaga tcaatattca tccactcact ctggaggcca aggaagctat cgtggcaacc 360
ctggcagtgt gcgattggaa tgttcgtgcc tggacgcttc tggaaggcat gcgaggccgc 420
tggaaccttc acgtcctgtg caaagacaac catgttatat cccttgtgga cgtcctcaac 480
gacgtcttgg catacagtaa tctcaccctt gtatcgccat gcttagcctt acagcactac 540
aacccgaccg gccgtcgccc agtcgaggga gagattcctc ccgttaagat agagcaagca 600
acctgcctct tgaatcacag acacgccacc aaggaccgag acgtgaccat gatctggagt 660
ctggtgtgcg gctcacagct cgtcaaagcc tctgtggact tttggaagtc caaaatggga 720
tccccccctgg caaccggatt tctcgtctct agctctccac gtctccagga ccagcacgga 780
ttcagctggg cgccgtcacg cccgaatctc ctgcctccca ctgcaggcac gtccagtgct 840
gcaggccaat atcctgccta cgatggagaa cttagtgtag caggtatgat taccgaacag 900
ggcttcaaag cggaatggct tatgtgcctg atcggtcgtt cccgagcgct tccgacctgg 960
ctccacttga ggttctacac tcaggacgaa tcccagatca ggagttacta tcacgtctac 1020
aacaagggcg gaaactcaag aatggacatg aaaagcctat acaagctccg ctccgtgatc 1080
gcaccggtgt ttaaaaagta tcgttgggtt gctctgctgc tgcccgccgt tagagatcga 1140
ggaactaatg gagcaacctc tccccctcgg ccgttccaat accaggggga agcaaaggga 1200
accctgccgg tgatagccgg ctcgcatgat gaanctggat gggagtggca gtttgtggca 1260
gagtgggata acaatttccg cccggcagaa ttcgggccga gggaagtgcg gaaggtttac 1320
ataccggaaa tgtaa 1335

<210> 3438
<211> 249
<212> DNA
<213> A.fumigatus

<400> 3438
aagagcttca acaaaatggc gatagaattc acccaagaca cactagacga gatctacgcc 60
tttgcagtcg ctctcggtcg tagagccggc gaccttctcc tcgagcgcat cgataagcag 120
atcgcaagcg acggcgagac tgcatacaca tacacagaga aagacaatgc agtcgacatt 180
gtcacgcaga cggacgaggg taacccatcg acacatccac cccgtccacc aaagaaagaa 240
agaaagtag 249

<210> 3439
<211> 369
<212> DNA
<213> A.fumigatus

<400> 3439
tcgagaactg aaggaaccgt caacttcacc cacctcttcc ccacgttctg cgtctcgatc 60
gggtttctcg tcaaccaccg cccagttatc ggcgtcatct acgcccccgc catgaatcag 120
atgttctctt cctgtgtcgg ccgaggcgcc tggttgaatg acacccgtgg cgcgcgccgg 180
ctgccgctcc gccgtaaccc catccccccg atgccggcca cgtcgccgag ggggtgtatc 240
tttgcatgtg agtgggggaa ggatagacgg gatatccctg ggggaaacat ggcgcgcaag 300
gttgagagtt ttgtgagaat ggcttcggag agtgggggga tggtgcacgg ggtaaggagt 360
ctggggagt 369

<210> 3440
<211> 402
<212> DNA
<213> A.fumigatus

<400> 3440
agttggactc gatggctgac cgttgctctg tatgcgtatc taggagtctc attgactatt 60
cttggcaccc ttttggctgc tcataacctc taccccaccc tccggccata cacggcgccg 120
ttcttcgaat tgtcgtacta ccaaccttcc gaaggggtct atgtccaagg atttgacgat 180
gtgtactttg tcgtcagctc cgccatcacg ttcaccgccg tccgagcgat tgccattgaa 240
tggatcttca gaccagccgc cagatatgcg ggattgaagc ggaaggcttc aaatcgtttt 300
gccgagcagg cgtggatgtg gatgtactat gcgttcttct ggacgtttgg aatggtttgt 360
ctcgctgcat ccatccattg cctctctgaa cggtggaact ga 402

<210> 3441
<211> 315
<212> DNA
<213> A.fumigatus

<400> 3441
gatctcatct cctctcatca agaactggcc gagctgacat tagcgcgaca gactgccaag 60
attctcaagt acttcaagtt cgagctttgc tgcaacatca ccttcggcct gttcatggtg 120
aactggttga ttacacgtca cattttctac ccactactct gctggtctat ctacaaggat 180
gttcctgatg ccatggccta cggctgctac tccggtagca acgcggaaat gatttcaacc 240
gatgggtacc cgaaccgatt ccgcttactt tttcaacccc cttcttggga cttcaatggg 300
ccccttcttg catga 315

<210> 3442
<211> 336
<212> DNA

<213> A.fumigatus

<400> 3442
tatatctgga caaactccta ttactggatg gatttcaagg caatttgggc tcaatggccc 60
gcgcggggta tctctgcaaa cctgaagtgg tatctgctgg cacagctgtc attctggttc 120
cagcagatcc tggttatcaa catggaagaa aggagaaaag atcactacca gatgttgact 180
caccacatca tcaccagcac tctcttgacg tccgcctata tttacggttt ttataacgtt 240
tcaaacgtgg tcctgtgtct gatggacatt gtcgacctgt tgctgcctgt atgccatgag 300
atctcatctc ctctcatcaa gaactggccg agctga 336

<210> 3443
<211> 927
<212> DNA
<213> A.fumigatus

<400> 3443
ccatgcatag cagtcaaacc cgaagcaaac ctcatcaaac gatccacatg cgtcgcagga 60
ggcgtcaaga gcagcgaata caacacctct ctccacattg gcgcgctctt catcatcttg 120
agcgtctcga ccttggcctg tgcgttcccc gtactggcca catggtttcc tcgtctacgc 180
attcccccat cagttctctt tacgttcagt catttcggaa cgggcgttct cattgccacc 240
gcatttgtcc atctgctccc gactgcattt acttctctca acaatccctg cttgtctggc 300
ttttggacca ccgactaccc cgccatgccc ggagccattg ccctagccgg cattttcctg 360
gtgacgttgg tcgaaatgat cttcagtccg gcacggcatg tgtgccgcgg agggctcaaa 420
gtctccgagc aggagacatc tctgtctgaa tcgggggtct gtaactccca tgtccctgtc 480
gccagagact cgaaaacccg ggatgaggtc aaacgacctg gctgcaccag ggtcgaaagt 540
caatcgcacc tgcgtgacct cggcccattg gtaggcaggc aaaccagcgt gagtcggacg 600
atcaaccgca tgggggagga atgcgatcgc atcatgcgga ttgcttctgc tcctgaaggc 660
atgcgaccag ttcaagaaag caaagcaccg ccaatcgagg acgtggaacg aagcgacgat 720
ctcgccctta ctccagagca gaagcacaaa aaggccgtca tgcaggtgtt cctgttggaa 780
atggggattc tctttcacag cgtattcatc ggcatgtcac tcagtgtgtc ggtaggcagc 840
gagtttgtca tcctgttgat tgccatcgta ttccatcgta tgttctctgc cttcggacgt 900
gttttgtatc ccgctaacgt cggatag 927

<210> 3444
<211> 237
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (232)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3444
tgtccttggc atacggatgc acgtaagttc ctggcctcgc gttctttcaa gttgctggaa 60
atgctaattc tcttcagcac acccatcggc caggctatcg gcctcgcaac gcacaccctc 120
tacagcccgg attcagaagt aggactgctc ctggtgggca ccatgaacgc aatctcatct 180
ggtcttctta tcttcgcctc cttagtcgag ttgatgtcgg aggactttct cnagtga 237

<210> 3445
<211> 225
<212> DNA
<213> A.fumigatus

<400> 3445
gtacgttcat cagcctcgtc taaacatcct gacgaacatg catgtatacc cttctcccgc 60

atcgtcaacc cacccctctc attctcccca cttacctccc aatccccacg cacccacgta 120
tcgccgtacg aattcggcct cgcaatcgcc cttacgttcg acaccctcat caactccccg 180
ctcagactct cccaaaagtc catcccgtac gtccccggcc gcatc 225

<210> 3446
<211> 417
<212> DNA
<213> A.fumigatus

<400> 3446
acgtacctag actcgaaccc cgaggctgtc attgttgggt cgccgctgga tggtagtaag 60
aatcctactg ataccaagct gggggatttg gttggggata tcacaggcgt gatcacgacg 120
gcgtacgggt actatgtgct gctgcccctg acagccttga ctgttacggg gtcaaacacg 180
acggctgctg ctcgtacaga tttggagtct gctggaacat gcggtgatgt gacggttggc 240
tcgtacaatg tcaacaacct ggctcccaac tcgacgacgc tgcccaagat cgcgcagcat 300
attgcgcagt acctgaagag tccgacgctg gtctttctgc aagaaatcca ggatgatgac 360
gggccgactg atgacggcgg tatgcttcct ctcaggctga ctgtggccat cggctaa 417

<210> 3447
<211> 339
<212> DNA
<213> A.fumigatus

<400> 3447
cgtcagaagg aatttacatc gtccatccta gccgaagact ccaccgccaa gatcattgtt 60
tccggcgact ttaacgagtt caccttttgca cagccgcttg aaacgttcct ggctgaatct 120
gggttggagg atctcgacga ggtcgctggg attgcagcca cggagcggta cacgtatctg 180
tacgatatga actgccaaca gctggaccac atgtttgtga gcccggcgct ggcaacagga 240
gcgcagatgc accatctgca tgtcaacacc tgggtttcgt tcgacgacca ggcaagcgac 300
catgatccta cggtggcgtt gctgaacgcc tgtagctag 339

<210> 3448
<211> 570
<212> DNA
<213> A.fumigatus

<400> 3448
cggcggtatg cttcctctca ggctgactgt ggccatcggc taatgcatgc gccaggggta 60
tccgccaaca agacgctctc gaccctcgtg cagtccatcg ccgaccaagg cggcatccgg 120
tactcgtttg tcgatattgc cccggtcaac aaggaagacg gcggccagcc aggcgggaat 180
atccgcgtcg cctacctgta cgatccgtct gtgattcgcc tgcgcgacgc caacactggc 240
tccaacaccg atgccaatga ggtcctcccc ggccccgaac tcaagtataa ccctggcctg 300
atcgacccgt ccaacaacgc gtggctcaac agtcgcaagc cgctagccgc agcctgggaa 360
acgctcgacg gcaagaacaa gttcttcacg gtgaatgtgc acttcaccag taagggcggt 420
ggatcgtcaa ttgagggcga tgcccggccg ccagtcaacg gaggcgttgc cacacgcgag 480
gcgcaggcca agctcgttgc tgtacgttgt cctcgttttc aatccttgag cggtactaac 540
gtcagaagga atttacatcg tccatcctag 570

<210> 3449
<211> 696
<212> DNA
<213> A.fumigatus

<400> 3449
acgccatttc aatttgccta caaatcaatg ggccaagagg agctcgcgaa ggaacatacg 60
tattccatca tggccacaga aggccgcatg gacagtttca atcacttcat ggttggcaag 120

tttatgaaaa caaacgctgc tcctgaccgt ctccgggccc tagggtacga tctggaatcg 180
gtcctcaacg acgcacaagc ttctacacct ccgaccatgg tggacatcgg cggaggtcgc 240
ggggagatga ttctcgattt caaggctgca tttccccaac tccagacttc ggacctgatc 300
gtccaagagt tcaatcatga catcactgat atccccggca tcaccctagc tgtgtggaac 360
tacaaggacg aaagtcccca accgatcaag ggcgcgctta tctaccatct ggcgcacatc 420
cttcacaatc tcccagactt ggaagctttg cgcttgctga agaagatatc ggaggctatg 480
gctcctcact cgcgattgct gattcatggg tttgcgaaga ataccactta cgccaagatg 540
cacgccgcca tgattgcttt gttcggcggt cgagagagaa gttcgaccga atggcatcaa 600
atggcgggcc tggctgggct tcgggtgaca ttcgaggcgt atccggattt cggagagggc 660
ttgattgaaa tgaggaaagt ggaaagctct gcttag 696

<210> 3450
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3450
ctgcttttct gccctttcat aggcggctgc ggacaggctt tccaggcgat tattgtttct 60
ccgcagtttg aaaagaagaa catgcttgcg cgccatcggt tggtgaactc ggtcttaaag 120
tcggagattg ctgctatcca cgcctggaca cccaaatgct acaccccaga gcaatggcag 180
gccctgcagc aaggaagcgc ttga 204

<210> 3451
<211> 219
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (96)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3451
agctatcaag cggaaggatt cagtggttgt ggcctaccgt atgcattgtg gccggcaatc 60
gtctacaggc taccagcata ttcgctaact cagatntctg acgtagaccc catcatcttt 120
cgaggactga agtccctcac tctcaatgac acacagcaac agacactgct acggctcgcc 180
tcggagggca taagcgtgta ctctccgcat acagctgta 219

<210> 3452
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3452
tgtcccaatt gctcatacag ttctcaccca gtgcttctgg aagctccctt ccatccggct 60
cggcggcaaa agaattcagt gcttctgacc attgacctca caaaggctgt ggcagatgaa 120
gctatcaagc ggaaggattc agtggttgtg gcctaccgta tgcattgtgg ccggcaatcg 180
tctacaggct accagcatat tcgctaa 207

<210> 3453
<211> 462
<212> DNA
<213> A.fumigatus

<400> 3453
tacgactaca tgcaggtggt ctacgggctc gaaacgggtg cggtctactg cgtcggggcc 60

tggtggaaag gactggccaa caaccacatg acggatgacc agcgcgccgc cctctcgccc 120
gactcggagg aattccgact gcgagtgggc ggatccaaga cgcaggtgct ggggtggtcg 180
ttgtacacga ccctgctgtg gttgttgaag gcgtgcatgg ccatcttcta ctcccgctta 240
acgtatgtct cgcctcgttt ggaggtcgtc actgacaccg acactgacgc cgataccgac 300
gctgacgctg acgggcaggg ccggtctgat caacatgcat atccgcgtgc gtgtggccta 360
cggggccatc ggggtgacct atctgattgt gattctgtcg atcctgtttg gctgccatcc 420
gatgcacaag aactggcaga tctatccaaa tcctggccgt ag 462

<210> 3454
<211> 510
<212> DNA
<213> A.fumigatus

<400> 3454
cgtatgtctc gcctcgtttg gaggtcgtca ctgacaccga cactgacgcc gataccgacg 60
ctgacgctga cgggcagggc cggtctgatc aacatgcata tccgcgtgcg tgtggcctac 120
ggggccatcg gggtgaccta tctgattgtg attctgtcga tcctgtttgg ctgccatccg 180
atgcacaaga actggcagat ctatccaaat cctggccgta ggtgccactc tcttgaaaag 240
gttgcttcga ctgacgtgtt agtacgctgc caacccgcca tcgcgccgct cgatgtctac 300
atgaccgtca cgctgaatgt cgcgacggat atctatctca ttaccattcc cacaccggta 360
cgttcgtttt catatatatc gagccgtccg tctcacatcc atagatgctc ttcaaagcgc 420
gacttccctg gcgcgagaaa ctcgaactct tcatcctctt ctctggtgga atcttcgtca 480
tggcggccgg gatcctccgc tgcgttttga 510

<210> 3455
<211> 1461
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1183),(1435)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3455
ttcacaacct ctctcaggct acctcccacc atgtcggacc tacctccgga aaggtctcat 60
tcacgacgca acaccaatga ccttggattg gtaccaacgg aaaccaagga gacgctccat 120
gaagctggac tcagcccaaa tacccctgag atagggatca attaccccga agtcggacgt 180
cctgccgacc ccgttttccc ggaggaatac aacctcgaga ctcaaactgg gctcgtccca 240
gcacggactc ttgagtcggt ccgtacgaca acctggacgg gccggcagat ctcgccggcg 300
gatttggaaa agggaggcga accggtggat tttgtcacgt ttacgattaa tgaccccgat 360
aatccgcaca actggagcca cgtataccgc tggtacgtca ccattgtcgt ctcaatgctc 420
gtcgtgtgcg tcgcgtacgg gtcggcattc gttaccgggg ggttaggcct gattgaggac 480
aagtatcacg tttcgctcga agtggctacg ctgaccgtct ccatcatggt ctgtgggttt 540
gcggttgggc cgttgctctg gagtcctctg tcggagatca tcggccgtcg tcccgtgtat 600
gtcatctcgc tcggactgta caccatcttc cagataccct gcgcgctttc tcccaatatc 660
ggtggattgc tggcctgccg tttccttagc ggcgtcttct ccagttccgg tctgtcgctg 720
gctggcggga ccattgcgga tgtctggaat atcgaagagc gcgggcatgg ccattgcgtt 780
cttcgccgca gcaccctact gcggtcccgt cgtgggcccc atcgtatgcg gctggatcaa 840
cgtcggttcg caccgcctgg acctcttctt cctggacaac atggcctttg ccggcgtggt 900
catgatcgtc gtccggctgg taccagaaaa ctacgccccc gtcattctga agcgccgcgc 960
caaaaagctc cgccaggaaa ccggcaaccc caacatcatc accgagcagg aaaaagtcaa 1020
actgagcttc agggagatcg tgcgcacgaa cttcgtccgc ccgatcacca tgatcctcac 1080
cgagcccgtc ctcgacctga tgtgcatgta catcgtcctc atctacgcca tgctctacgg 1140
cttcttcttc gccttccccg ttatcttcgg cgaattgtac ggntacaacg acggacagat 1200
cggcctgatg ttcatcccga ttctgatcgg cgccggtttc gcgcttctcg tcacccccct 1260

catggagaag cagttccggc gcatctgcca gtctcgcgcc ccgacgcccg aagaccgact 1320
catcgcggcg cttctcggag ccccctttat cccgatcgca atgttcattc tcggcgctac 1380
gtcgttcaaa catattatct gggttgggcc cgcgtcgtcg ggtatcgcgt tcgtngcaca 1440
cgccggggca aagtaaggta a 1461

<210> 3456
<211> 942
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (669),(921)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3456
ccgtctccat catggtctgt gggtttgcgg ttgggccgtt gctctggagt cctctgtcgg 60
agatcatcgg ccgtcgtccc gtgtatgtca tctcgctcgg actgtacacc atcttccaga 120
taccctgcgc gctttctccc aatatcggtg gattgctggc ctgccgtttc cttagcggcg 180
tcttctccag ttccggtctg tcgctggctg gcgggaccat tgcggatgtc tggaatatcg 240
aagagcgcgg gcatggccat tgcgttcttc gccgcagcac cctactgcgg tcccgtcgtg 300
ggccccatcg tatgcggctg gatcaacgtc ggttcgcacc gcctggacct cttcttcctg 360
gacaacatgg cctttgccgg cgtggtcatg atcgtcgtcc ggctggtacc agaaaactac 420
gcccctgtca ttctgaagcg ccgcgccaaa aagctccgcc aggaaaccgg caaccccaac 480
atcatcaccg agcaggaaaa agtcaaactg agcttcaggg agatcgtgcg cacgaacttc 540
gtccgcccga tcaccatgat cctcaccgag cccgtcctcg acctgatgtg catgtacatc 600
gtcctcatct acgccatgct ctacggcttc ttcttcgcct tccccgttat cttcggcgaa 660
ttgtacggnt acaacgacgg acagatcggc ctgatgttca tcccgattct gatcggcgcc 720
ggtttcgcgc ttctcgtcac ccccctcatg gagaagcagt tccggcgcat ctgccagtct 780
cgcgccccga cgcccgaaga ccgactcatc gcggcgcttc tcggagcccc ctttatcccg 840
atcgcaatgt tcattctcgg cgctacgtcg ttcaaacata ttatctgggt tgggcccgcg 900
tcgtcgggta tcgcgttcgt ngcacacgcc ggggcaaagt aa 942

<210> 3457
<211> 297
<212> DNA
<213> A.fumigatus

<400> 3457
cgcggtatgt tccagccccg gggtgaagac cctccagtgg gtggcattgc taatggcgcc 60
atggtgttgg acgacaaatt gttcatcgac atgccttttg agagtttcca agctgccatg 120
aagcctaaag tacaaggctc catctacctc gaggaggttt tctcggctga taaccttgac 180
tttttcctgt tcttctcgtc catttccgta atgacgggcc agcgaacaca ggcgaactat 240
gttgctgcca acaatgcaag tctaaccccc ttttcacccc tgtccaggcg tttctaa 297

<210> 3458
<211> 495
<212> DNA
<213> A.fumigatus

<400> 3458
ttcatggtcg ctatggctga acgaagaagg gcccgtggtc tgccagcttc tgtcattgat 60
atcggcatgg tcgtcggcat cggtgttatt cagagatcgc agaatgacaa aggcgtcagc 120
gcgatggaga actcgatccg acagatggac tacatgcctg tgtccgaaac tgacctacat 180
catctcctcg ctgaggccat cctcgtgggc cagcgagatg agtccccgga actaatcaca 240
gggttggaga catacaagcc agttgaggga gaggctccct tctggcacca taacgtgcgc 300

ttttcccacc tcatcactga ccctgatgct gcgcaagcgg gtgcggactc tgctggtagc 360
gctcagaaat cgttgaagga gatgctgctc agctctggtg ggcccgagga agcgaggaag 420
gtcatggaga atgccctctt gcaatatcta gcgtcctcac tcaaggtaag tactgcccta 480
ttcaaacctt cgtga 495

<210> 3459
<211> 711
<212> DNA
<213> A.fumigatus

<400> 3459
ctgtcacgcg agaccattta caccgatgtg ccgatcattg acctcggtat cgattccctt 60
gtcgccgtcc agattcggaa ctggacctgg gccgaagctg gatatgacct tccagtcttg 120
aagatcctgg gcggatcttc ggtaacacag atttgcgatg aggtagtcgc atctctgtcc 180
tttgacaaga gttcgattgc ggccgccaag gtcgacagtc aagcagcacc ggctcacaaa 240
cttcgcccgt gggataaacc atccgcagat acaaagcgaa cggactctat agcacccgtg 300
cctaggtcac agatcgctgc aaatggaccc aacggcttgc cgaatggggc tttgaagaaa 360
gcctccaagc ttgccgtaaa ggtcaggcct ctctggacga ctcaagctgg cggtaaagat 420
accaagaaag gtcctcggcc agccccgatc aggatacagc cattgtcctt gggtcaatat 480
cggctatact tcctctctca atacatggac gatgatagag tcctgaactg caccatctcg 540
tacgccctct ccgggaagct ggatgtgtcc aaattggagc agtcactcat tcaggtggtg 600
cagcgtcacg aggccttgcg cacctcgttc tatacagatg agaaggatgc gaagcccagt 660
cttctaccac aagggccgaa ggatccgcgc attcgcctcc gaacgggcga a 711

<210> 3460
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3460
cagctttatt cagccattgg gcccgcacga ctatataaca tcggccagag atattctggt 60
cttttgcaca tgttttggat aggagcatcc cttcccatca ttacatactt tatccggaag 120
agattcccga agtcacggtt cgtcgatgca atccactggc cgatcttctt tgcaggcact 180
ggaaatctgc caccagcggt atga 204

<210> 3461
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3461
ccttttctcc cagatggtgt tctgatatgg atgcttggca acgtgaagga tgtatgttca 60
agtgatcagc ctgacaactt tacctgcccg caaggccgag tcaactacaa cagtgcaatc 120
ttctggggtg gtacgtcttt gccgatcctt tatcccaagt cgcacactga cagctttatt 180
cagccattgg gcccgcacga ctatataaca tcggccagag atattctggt cttttgcaca 240
tgttttggat ag 252

<210> 3462
<211> 285
<212> DNA
<213> A.fumigatus

<400> 3462
ctttccgctc tccagacaag atgcaatcat gaaatactaa cgggctggca ggtcattaaa 60
ggccgtagac cgcactggtg ggccaagtac aattacgtgt tgtccgctgc tctcgactct 120
ggtgtcgctg ttgccgcaat tctgatattc ttctcgctga tctttccggg agtcagcttg 180

agttggtggg gaaataccgt caacagcggg acagttgatg caaaggggac accctggaaa 240
gaattgggtc tgaatgagac gtttggcgag aggacttggt catga 285

<210> 3463
<211> 543
<212> DNA
<213> A.fumigatus

<400> 3463
cgggcgggac gaaagattga cagccgtgtc agtttccatt gcgtgtactg gcccgccttc 60
ctcatggcat tggatttgcc cctacctcgg agggtcctca ttcatggtca ctggaccatc 120
aaccgggaaa agatgtcgaa atccaccggg aatgtggtga atccctttt cgcgattgat 180
cggtttggcg tcgacaccat gcgtttcttc cttgctttcc aaggtggact agcgggggat 240
gccgactatg ataactccta cattatccgc gattacaaga agctgctcca atggggcatt 300
ggaaacctaa cccaccgtac aattggttgt gcaaagggta acctgcgctc gtacattgcg 360
gacgcagccg ccgacaagct gcccgcgccg acgcccgaag atctggagca tcaatctctt 420
ctggagcaga cacctgacaa agtggcggaa caaatggaaa agttaaaccc ccgtgccgct 480
ttgcaggaca tcatggcgat tattgagaag gtcagtgttg agagtccata tcacaacgac 540
tag 543

<210> 3464
<211> 279
<212> DNA
<213> A.fumigatus

<400> 3464
ccgcagacaa acaagtattt ccacgcggca gagccatgga aaactccagc cgggtcgcag 60
cgagcgctat acaatgtcgc cgagtcccta cgaatttcgg gtatcctatt gcaacctttt 120
atgcccagta agtctactga acttctcgat attcttcgtg tagacaagac agagccatcg 180
aaacggagct tttcggccgc acgctacggt tgtgatccgg actatggtga gggtgtcaaa 240
aagagtattc ttttcccgcc tctcattatt gaagaatga 279

<210> 3465
<211> 1329
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (25)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3465
tccagtcctg ggtgctataa taaanagtgc atgattctgg ccgcccacgt ggtcaagcac 60
cttatctctt tctcgaccga agcatacgca gcccatattc gcggaatacc tgggccccat 120
attggaccag gcttgggcta cgcctttggc ctttatgcca tgcaagtgct gcagagtttg 180
actatgaacc acgcgttgta tcgaggtatg gttgtcggag gaatggccaa agcgggcctt 240
acatctcaaa tcttcgccaa agcgatgagg ctgtcgaatc gtgcgagagc tggcggaaag 300
caggccaatg acaccggacc caaatctgcc gaaggaagtc catccggagc agcagcaaac 360
gatgcggcga aggagactgc cggctggagt aatggacgta tcacgacatt gttgggcgtg 420
gatgtggatc gtatcgatac ggcttccggc atgcttcata tgctttgggt tgcacccatc 480
ggtcttatcg tcgctctaat catcctgatt gtcaacatcg gctacagtgc acttgccggg 540
tacgccctcc tggttgtcgg agtatttgcc ctggcatggg ctatgcgcct cctggtgcaa 600
tttcggaggg ccatcaataa aatcaccgat cagcgagtca ctttgacaag agaaatattg 660
tacagtgtga ggttcgtgaa gttctttggc tgggaaagca gcttcctcaa gcgtctcgag 720
gctgttcgca atcgcgagat cggctccatc aaacggctct tgtttgtccg acacgctgtt 780

gtggtgtgca tggtttcttt accaacattc gcatcactgc tgtcttttgt cacttacgct 840
ctgtcggatc atagcctgtc cccggatcgc atttttgcgt ccttggcatt gttcaatgtg 900
cttcgcatgc cactcatcat gctcaacctg actatcacac agatgaccga tgcctggact 960
gctatgaacc gaatccagga gttccttcag gccgaggaaa agtctgaccc agtcgaatgg 1020
gacacaggca tggacaaggc tattgaggtc gaacatgctt catttacttg ggaacaagtg 1080
cagagtaaca agggagagga gaagaaggga gagaagccga aacgtagcca ggtcttgccg 1140
aaagacgcaa cgcctagcag cccgtccgac gacaagagtg ataccaccga gcttgtgccg 1200
ttcaagctca ccgatatcaa cttcgaagtg ggaaggggtg aacttcttgc tgtaatagga 1260
acagttggca gtggcaagag ctcgttgctc ggggctttgg cgggcgtctt caccacgggg 1320
ctggaagga 1329

<210> 3466
<211> 1209
<212> DNA
<213> A.fumigatus

<400> 3466
caccagcctc gatccttcca gccccgtggt gaagacatcc agattgcagc tactatctgt 60
gaatggatgt acgtgcctag gcgctgggca ggtgctcaac acctcaccaa acgactgatg 120
tttctgatcc ttgttttcgt catcaatctg gctcctggtg tgtttgtctt cgcctacagc 180
aagagcatgg gcatcagcaa aaccatccct ttgattgttg gtatcgtcca ctttttcgtc 240
gcgctggcaa ctttcgtatt cttctctgtc atgccacttg gtgggctttt cggcagttac 300
ctcaagaagc atggccgtca gtatgtggct agccagacat tcactgcaag cttcccacgt 360
ctgcacggca acgatatgtg gatgtcgtac ggcctatggg tctgtgtttt cggtgctaaa 420
ctggcggaat cgtacttctt cctgaccctg tctttcaagg atccgatccg gattctctca 480
cccatgcaga tacatcagtg tgcgggtgtg aaatacattg ggaacgttct atgtcacaaa 540
cagccccaga ttcttctcgg cttgatgttc ttcatggact tgacgctctt cttcttggac 600
agctatcttt ggtacattat ttgcaacact gtcttctctg ttgcgaggtc gttctacctg 660
ggtgtgtcga tctggtcgcc ctggagaaat atcttctccc gactgcccaa gcgtatttac 720
tcaaaggttc tcgccacaac cgacatggaa atcaagtaca agcctaaggt attgatttct 780
caagtttgga atgccatcat catctcaatg taccgggagc atctgctggc tatagaccat 840
gttcagaagc tcctctacca ccaggttcct tctgagcagg aaggcaaacg gaccctgcgt 900
gcgcccactt tctttgtgtc tcaagaggat caatccttca agactgagtt cttcccgcct 960
ggtagtgaag ctgagcgtcg gatctcgttc ttcgcgcaat cactctctac ccccatgccc 1020
gagccgcttc ctgtggacaa catgcctaca ttcaccgttc tgattcccca ctatagcgag 1080
aagatcctcc tatccctgcg tgagattatc cgcgaggatg agccctactc tcgtgtgacg 1140
ctgctggaat acctcaaaca acttcatcct cacgagtggg actgcttcgt caaagacacc 1200
aagatgtag 1209

<210> 3467
<211> 771
<212> DNA
<213> A.fumigatus

<400> 3467
agacatacga gacttggtgg cggtagtatc gttggcaaag ggtatagtga tgatgggtac 60
acggtcaccg acggatacac agacaccgca acgacgatta ccgaaaagga agagggagac 120
cacaagcgca agcgcagatt ccgggagacg gctaaacaga aacttctgcg caaacgcaaa 180
gacgagaact gggaatgcga atccgacgaa gacgttcgtg cctaccgcaa ggagaaaccg 240
gcccggatcg gcggcatcaa ctgcgagggg gatggaacct atcacggcag tgactacgac 300
acctccaacc cgcccacctc acacaacgct agcgagatga gcgaggtacg cgactatgcg 360
tacgaacccc cacgtcagag ccgcaatttc tcgttcactc ccggaagcga ggaggtcctg 420
agccacacga cagaggagcg ccaacacctc cgcgagccat ctgcgagacg acacaatcgc 480
cgccgagaga gacgtcgtgc tcccccgacc actccgtcgc gacagggcag cccgcgcaaa 540
cgagaccgtc tgtccgtgcc aggtcattac accgagcctc tggatttctc gtcagcgggc 600
tccagatccg aatatcaata ctccaatgtg gaaacggatg acggatcggg gaccaagcac 660

taccatcatc ccattccagg actcagcaag ggataccgcc gcgaaggcgg acggaacaga 720
agacgggaca gcctgagcga cagcgacggc gacgaaacgc ggtactcatg a 771

<210> 3468
<211> 747
<212> DNA
<213> A.fumigatus

<400> 3468
tctggaggga aataccaggt ttcaaccctt caatcaaccc ttcgagcagc tccatattcc 60
ctcccggtcg tcaccatctc cctggatgat ttctacctca cccatgagca acaacagata 120
ctagccaaaa cctttccttc caatcctctt ctccagcatc gcggacaacc ggcaactcac 180
gatcttcctc tggccgaaaa agtctttgaa tctctatgtg ccggccgtcc tactgctatc 240
ccgcaatatg acaagtctgc ttattcgggc cagggcgatc gtgtacccga gagccaatgg 300
gagacagtca acggcgacgg acaagacaaa atcaaagtgg ttatcttcga aggctggtgc 360
gttggcttcc gcgccctgga tgaagatgtc cttagggaga agtgggaggc tgcggtccgc 420
cagaaagacc agggtggtta taatggccgc ttagggtatg tgaagtttga agatgtcaag 480
gccgtcaatg acgccttgag gaagtacgat gtattgaccg agttcgtatc cttgccctct 540
tggatcgctc tagacgttga tgctaactgt tcgagcgagc cggctcgacg cattggttca 600
tatgtgagtg ctaccctcct tcactctcta tcatatcaat accctcttgc taaacatctc 660
caagcgatgc gcaagacctc cactttgtct acgactggag acaggaacag gagagaacgc 720
tgcgtgcaat caaaggaacg ggaatga 747

<210> 3469
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(149),(150),(151),(152),(153),(154),(155),(156),(157),(158),(159),(160),(161),(
162),(163),(164),(165),(166),(167),(168),(169),(170),(171),(172),(173),(218)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3469
tatatgacag attacccgtc ttatgaactc ttcactgagg cacttcggga aggtgccttc 60
aagcctgcgt cgaactcaac agacaccaac tggcaaggca gacagctccg tctgattgtg 120
aataaggaga ggagggttga tggtcttcnn nnnnnnnnnn nnnnnnnnnn nnngggctta 180
aatatatatg cccactcgac cacccctctc gacactgnga attga 225

<210> 3470
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3470
acatctccaa gcgatgcgca agacctccac tttgtctacg actggagaca ggaacaggag 60
agaacgctgc gtgcaatcaa aggaacggga atgaccgagg agcaggtgtc tcactttgtt 120
gatggctgta cgtatgtcga actggtggac gatcgtcggc taatatatga cagattaccc 180
gtcttatga 189

<210> 3471
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3471
ccaacgtcat ggtattcttc tcagaacaac agatcgcggt ctgctaataa taatgatgac 60
aagaattcac agaaactggg aactcatctt ggaatattga cggtgctggc gcggtacctt 120
aaagaagaat caaacctcat tatgacgatg attaattatg tcactgtggt gagcgcccaa 180
gaaacgaaag aacagccagc aactgaactg gggtaa 216

<210> 3472
<211> 255
<212> DNA
<213> A.fumigatus

<400> 3472
gacatgacaa ttgaggcact ggaaaagctg cgtctatgta aacagattga agctatgcag 60
atacctgtgg cgttgctgtc gtcagctagg gatagtccat attggaccat ctgcaatgcc 120
ttgatcgaaa atgcttatct ggacttcgaa atccgcaaac aagatgtgtc tctcgactgc 180
ccctgggaaa actcgatcag ctattcaagc agatctcgag ttgtgaacca atcaacgagt 240
tggacaccga cttag 255

<210> 3473
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3473
actgacatgc tgacaaagag gaaagacatc tctatgccgg ttatgcacgg ctttgaagcc 60
acacgcgcca tccgcgctct ggagaaagag cgcgatgggt gtggaccggc cacgatcatt 120
gcactgacgg gactgagcag ttcgcgtgac gaatccgagg ccctcacgtc cggggtggac 180
ttgttt 186

<210> 3474
<211> 1215
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (142)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3474
gattgggcag gggtttcggt gcacttggag tccaccgagg cgtttgagag ccggtcgcgc 60
cgacatggtg tggaagaact tgtgacgttg accgtatcag atacgggcaa aggtatatca 120
gaagcgttct tacgggggcg cntattcaca ccattcgcgc aagaggatac tttggcggtg 180
ggaactgggc tgggtctatc gatcgttcga agcttcgtca aagcgttgaa cgggattatc 240
aacgtccaca gccggcccgg tgaaggcacg acggtcaagg tgtctcttcc tctaacacgc 300
ccagatccgg aggacagtct ggaggacagc cttccgtcga gacaggacga cacaatgaac 360
gaagcctttt cgctccgcaa cagccatggc ggcagacggg ttgccatttt tggtgtcgag 420
cctgctgatg cctgcgaaca tcgcttatgg tccatcattg cacgctacct gacggactgg 480
tacggtctgg agctggtttc cttgtcgtca caagagccca tcgacgtgct tttggcagac 540
gaggatagct tggcgagcat ctcaaaggag gctgtcactg gcattatcct ttcactcctg 600
atcctctgca acaagtcagt tgattacagc gcgattcggg cagagtggtc accgattgcc 660
gctttggtgg acatcatccg tcgcccgtgc ggtccgcaca aactggcccg ttgcattagg 720
aaatgcctcg ataatggacc acgtgggggc gccacgttgc cgccgcgcat tgagcttccc 780
gaacgacccc ggatgagtaa tggcatccct ccgccatgcg cggacttgac cgaggcagat 840
ccgcttgctg cgagcggtga tcgtactcgc gccacctcgt ttagagttgg gacccttcc 900

tcgtcggagg attcgggaga gtcacaaagt tcatccgaca tcgccgacgc acttcacggc 960
agtgatacct ccatgtcgcc actgcccaca ccgtcggaga cagcgagcaa gcgcatcgag 1020
cgcaaggcac gcgtccttgt ggtggacgat aattcgatca atctgaattt gatgttgacg 1080
ttcatgaaga aacaagagtt ggaggttctg gattctgcgg aaaatggcaa agtggctgtg 1140
gacgcggtgg aaaggatgca gcagggttac gacctcattt tcatgggtag gcgactcaac 1200
cccagattag actga 1215

<210> 3475
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3475
tatttgctta tagcgaggct cctgcttttg tcctcactct ctttgaaccc tctgtccttc 60
caggcgcctc cctcaaggtg ggtttttctc aatatggcag tcgacgaaaa gaccgatgcc 120
cagttccatg agacggtccc cacgcgagat gcagatgtgg gcgacgccat tgaactggcc 180
cagcaggccg cttcggccaa gtacagccca tggacaccga acatgttccc gctgtaccgc 240
tgtctgacca ttgcgtat 258

<210> 3476
<211> 486
<212> DNA
<213> A.fumigatus

<400> 3476
gcccgtttga ggagggtttc tttttgctac tatcctattc cgtcctcgct ttctctgtct 60
gccaccatga ccctgtccgc agtccccgac tacgaaaacc agcacatatt gcagcgcaat 120
cggctcaaac caagagcata tttccttccc gcgacgtcta tctcgctcaa tggtcgctgg 180
gactttcact atgcagcctc tcccgtgagc gccccagagc caacatggtc caagggcacc 240
aagaacgcca cggccgaacc ccgccgggat tcgaaccaat ttagctcgga tggcgcagac 300
tccaagacag cttgggctcc gatcactgtt cccggccatt ggcaattgca aggctatggc 360
cgtccacact acacaaacgt catttaccct ttccccgtct gtccgccatt tgtgccgacg 420
gagactccta ccatgggagg aagtgtggtt ataattatat tattaattgt aattagtata 480
gtataa 486

<210> 3477
<211> 699
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2),(40)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3477
angtgggacc gacactacct gtttgtccgg ggcgagcggn tcatgatctt ctctggagag 60
tttcaccctt ttcgactgcc agttcctgga ctctggtttg atgtcttcca gaagattaag 120
agtctggaat tcaatgctgt ctccttctat actgactggg gtctcatgga gggtaatcct 180
ggccacgttg tgactgacgg tatctggagc cttgacgagt ttttcactgc tgcacgtgaa 240
gccggtctct acctgatcgc tcggccaggg ccatatatca atgcggaaac ctcggctggt 300
ggtatacccg gatgggttct ccgtcgaaag ggcatcatcc gctcaaacag tgaggattac 360
ctccgtgcga cagatacgta catggccact ctagggaaga taattgccaa ggcgcaaatt 420
accaatggag ggccggtgat cttggttcag ccagaaaatg agtacacgac ttggcccaac 480
gtctcagagt ccgagtttcc gacgaccatg aatcaggaag tcatggccta tgccgagaag 540
cagcttcgag acgctggagt agttgttcca accgttgtaa atgacaataa gaacctggga 600

tactttgccc ctgggactgg actgggcgag acggatctct acgggattga cgcctatcct 660
atgagatatg actgtgagac cattactttc aagagatga 699

<210> 3478
<211> 300
<212> DNA
<213> A.fumigatus

<400> 3478
atcaatgttc cgaacatgag ttcgctttcg atttcacgac gatgcatgca catcgtttct 60
ctttctctcc tggttgcctc gtcgctcgca gcaaacacgg cacaatggaa atccagagcc 120
atctatcaga ccatgaccga tcggttcggc cgcaccgacg ggtcgacaac ggcgcgatgc 180
gtcgcgtccg agaacatccg ttgcggaggg acatggcgag gaacaattga ccatctagat 240
tacatccaag ggatggggtt cgacgcggtc atgatctctc ccgtcgtgaa gaacgtatag 300

<210> 3479
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3479
tttttcgttc tctactccgt accttactcc gtactccgta aaaatctcca aattccactg 60
ttggatatcc agcatccatg ggagaagcaa actatggacc tcacttccat ctttaccccc 120
tattcccagt ccctagattt ctcgttgtcc accttgggag tcagcttctt ttccgcgcac 180
agctcatttt caagtgatta a 201

<210> 3480
<211> 801
<212> DNA
<213> A.fumigatus

<400> 3480
aacatcctcc ttatcggcgg tggtgtatcc tcgacagaca ttgctcgcga gataggccca 60
attgccaaaa ccgtatacca aagcacccgc aacggtgaat ttgacctgag tgagtcagta 120
cttccggaaa acggaataag aatcagcgag attgcccgat ttgagttaca aaacgacaaa 180
actttaccag aagatgcgca tttgccgttg attgtccacc tcaagtcggg tcagaagcta 240
tgcagtattg atggcatcat tatctgcacg ggataccaca ttactctacc ctttcttcca 300
gactatcacg acgacgtgac ctccccggcg gatgcgaatg aaacagttct tgtgacggat 360
ggtacgcagg tgcataacct tcacaaggat atcttctaca ttcccgaccc gacattggta 420
tttgtaggcg tgccgtacta cacagcaaca ttcacgctgt ttgagtttca agccatcgcc 480
gtggcagcct tcttctctgg agttgcccag ctgcctccca ccgaagacat gagggcggaa 540
tatcttgctc gagtcaaggc gaaggggagc ggacggggat tccactcact caggaatgtg 600
gaagagcact acgtagcgga tctcttggag tgggtgaata aggctcgggc ttctcgcgga 660
ttagccgccg ttgaaggaca tactaagtca tggttggagg cgaaggaagc ccagagggag 720
cgactgaaag agcttttggg gggcggaacg aggagagata gtggggtggg tgagtttccg 780
gtgttggaga cgtgtaggtg a 801

<210> 3481
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3481
acatttgacg cagtcgtcgt cgcctttggc cactacctcg cgccacgaat gcctgacatt 60
cctggcttac cggaagcaaa ggcactatgg ccgtctcgga tccttcactc aaagggatac 120
agaagacccg acggatttga aaacaaggtg agtcagtcgg gttgcggtta tatggaaatc 180

ccaagatact aa 192

<210> 3482
<211> 339
<212> DNA
<213> A.fumigatus

<400> 3482
ccgcagtcgc tgacgcgttt catctctaca ggcggcaaag gtggcaaggg tcttggaaag 60
ggtggtgcca agcgtcaccg caagattttg cgcgacaaca tccagggtat caccaagccc 120
gctattcgtc gtctcgctcg tcgtggtggt gtcaagcgta tctctgccat gatctacgag 180
gagacacgtg gtgtcctcaa gaccttcctt gagggtgtca tccgtgacgc tgtcacctac 240
actgagcacg ccaagagaaa gactgtcact tcccttgacg tcgtctacgc tctgaagaga 300
caaggccgta agtatatctc tggttattgc gaattttga 339

<210> 3483
<211> 837
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (289)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3483
gccttcctta gcgccgcctg tggtgaaaac gccaacgggg gcatgccttt cccctggcca 60
ccgaactata acacctacag tcccagccca cacatgcccc ctgtccaccc cgcaccgatg 120
ccaggaagct gcccatgcag ctacggccag gcagcgctct gcggcatcca ccaacccatc 180
agtggctacc cggtccacgg gatgactggc agcatcggca acctgcacta ccaaggatgt 240
gtaaactgtc cgcgggggcc acagggcccg gtcggagcac aaggcccant gggaccgcat 300
ggtacgtccg gggcgcaagg cccacctgga ccgcagggct cgcctggagt gggcgctgac 360
ggaccccagg ggccggccgg caagcaaggc gttcctggcc cggtgggccc cgtgggtgca 420
actggcccgg cgggaccgca gggcactgct gggcctccac gtccgagagg tgaagacggt 480
tgcaatcatg ggtgcaataa accgggcgac aaaccgggcg acaaaccaga tgaaaagaaa 540
ccgcctgaac cgtccggcca gggtgtgggt agggaaagca gtgatggtcc gaagtacacc 600
gacgaaccgg ctgtcccagc aaaccaagga gctggagtgg ataacgtcag caaagggccc 660
gtgtataacg acgaggtctc tgctgcaggc cagggtatcg gagcggagtc tgcgggaggg 720
ccatcctata ctggtgaccc ccagacgagt tctcatggga tcggaaggga aaccagcggg 780
ggccctgcat atattgaagc aaagaatccc tcggggcagg ggattggggt tgcttga 837

<210> 3484
<211> 588
<212> DNA
<213> A.fumigatus

<400> 3484
aaggccgttg gtcctggctg ctcttctccg tgcctcgccc ctccctccaa gaattgcctg 60
ccatcgactc ctcttcgtcc tctctgcttc tccaactcat taaagtccac catggcacag 120
ccggcgagtg tcgtcctcga cggagaagat cctcggctgc gggagaaaga gcgtggcaca 180
ttcgatgccg ttgactacgg caccggcact gctgctatcc gtccgcagca tcgcaagctg 240
catgatccta gtgtcacctt cgaggagtac tactactatg ctcaactgac ccgtgccgaa 300
gaagagtccc ggccgaatgg cgatcaggaa cggggatggc tgtcgatcat cttcccgtcc 360
aagtcgggcg gcggcgtcca gcccttgccc caacacccgt cggaagatgc caaaacgccc 420
agcgccggcg acgcagcgcg ccagatgacc atcacggacg aggaatggac caatgcgtcc 480
cgggcgctgc ggacggccac tcgaggggcc atcttctatc tgatcaccac cgacattctg 540

ggcccattcg gtctggggta tgcctttgcg accatgggtt gggggtaa 588

<210> 3485
<211> 288
<212> DNA
<213> A.fumigatus

<400> 3485
ggggggggaga ataaagcgcg gtatcttcgc ctcctttgtc gagtaagaca gaagctggaa 60
ggagtcgaat atgtgcttca ccttgcctct cctcttcccc acgggacaaa taaagagacg 120
tactttggtc cggctgtaaa gggcacaacg gccattctga aggaagccgc caaagtccgt 180
acggtcaagc gcgtcgtgat tacttcgtcc atggcggcac tcataccgct cacgggggtt 240
cctgagggag aattcgtccg aggtcggttt cccataattt cagggtag 288

<210> 3486
<211> 594
<212> DNA
<213> A.fumigatus

<400> 3486
acacgcacag aggacaccgg ttgggaccta tctgtcgacc caaatgctga cttcacaggc 60
ccagacgacg ctgccacctc gttcaggctt taccgcgcct cgaagctcct agcaaacaac 120
gccagttggg aattcaggaa caccgcgaaa ccgcatttcg cgcttgtgac tctccaccct 180
gcctacgtct ttggacataa tcatgtgcag actagcccgg aggaggtcca aggtggaacc 240
aatggaatgc tctggggaac catcatgacc ggcaaaccaa tgggaaacag cactggggta 300
cacgtccagg acgtggctga ggcacatatt aaggcgcttg atgagacagt gccggacggg 360
tccaagttct tgttggcagg taaaagggcc tcttggagcg acgttgcccg catcgtaaag 420
agagactatc cggacattgg tgccaaaatt acggaggata tctctggaga acctttccca 480
ctggatacaa ccgaggccga gaaggtcttg ggcatgaaat ggaggtcgtt ggaccagatg 540
gtcaaagacg tggtggacca acagttggag ttgatgagac agacatccct gtag 594

<210> 3487
<211> 234
<212> DNA
<213> A.fumigatus

<400> 3487
cagactgagc ctagtgcagc gatcgtctac tctgatcgac ataatagaac aaatatagaa 60
cccttctaca gggatgtctg tctcatcaac tccaactgtt ggtccaccac gtctttgacc 120
atctggtcca acgacctcca tttcatgccc aagaccttct cggcctcggt tgtatccagt 180
gggaaaggtt ctccagagat atcctccgta attttggcac caatgtccgg atag 234

<210> 3488
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (21),(31)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3488
tgtgtctatt taaatgacct ngcgcacgga nggtatctgg gtctggttgt ttacctgaaa 60
ttcaagttcc catcatccac gctcgttacc catacacaaa cgtaccagct acaatcttcg 120
atcaagtaca ctcgcttcgg gtcatctatc aaacaaccac tccaagatgc gttcttccgt 180

cgtcctcctt gccctctcgg cccttgccgc cgctcagtct tctag 225

<210> 3489
<211> 615
<212> DNA
<213> A.fumigatus

<400> 3489
aattcaagtt cccatcatcc acgctcgtta cccatacaca aacgtaccag ctacaatctt 60
cgatcaagta cactcgcttc gggtcatcta tcaaacaacc actccaagat gcgttcttcc 120
gtcgtcctcc ttgccctctc ggcccttgcc gccgctcagt cttctagccc tgtggtacgt 180
gacgatcgct tccatttgaa ctgcgcttca gaccatacta acatcctaca ggaagctcag 240
actacaggtg tcactgtcat cggtcctgag gttagcgcta ccgaggttag cggtactgct 300
gctaccacta cttccatcag ctccaccacc tctcagcctg tgatcccaac tgctcctacc 360
gtcattggat ccagcggcgt tccctcttcc ttctccaccg ttccttctag cagcggcgtc 420
aagagctcta ccaagactgc ctcgaccgca actgccaccg agaccacatc cgagtccacc 480
tctaccacca ggtccagcgc ctcctctacc cggtccagca ccagcagcac gacctccaac 540
gctgccatgc ccatggcgac cggctctctt ggcctgtccg tcatggctgg tgctgcactg 600
gctgccttcc tgtaa 615

<210> 3490
<211> 864
<212> DNA
<213> A.fumigatus

<400> 3490
tctaggcttt caggaaatgg atcgtcctca gacgatgact ttggtcctgc tctaccatcc 60
gccgatgcgc cgaagaaaag gcgacgcaag ctaccgttcg agaaggtcta cgtgaatgcg 120
ctacccgcct ctccgcggta ctcgaaatcg cttatgcaca aagagcagct atccttcgtt 180
acgatgactc cctacacaga ctttcttatc acgtcatcaa tggacggtat cgtgaagttt 240
tggaagaaaa tggccgtcgg agtcgagttc gttaaggaat tccgagcgca tcctgcggac 300
ataaagagcg tcagcgtcag tgccgacggg aggagttttg cgacggccgg tgcggacaag 360
acgatcaaga tctttgacgt tatcactttt ggtaggctgg gtcccctgct gttgatttgg 420
ttatgccagc taatcggctg cccagatttg ctggccatgc tctccttgga cttcacaccg 480
cgctgtgtct gctgggtaca ccctcgtggc gcatccctcc cattgctagc cgtgacagac 540
gaagatagtc cgatgataca ggtctttgat ggtcgtggag agaacaccac tcccttaaac 600
accgtcaagt cgatccaccg cagccccgtg gcagccattg ccttcaacaa cgcatacgac 660
tgtgtcattt cagccgaccg gtccggaatg gtcgagtact ggcgcgcgag cgacggctcg 720
tatgagaaac cagataatgt attcgaactc aaatcctcca cgaacctctt cgaattcaag 780
aaatccaagt cggcacccgc gtccattaca atatcaccat gtcttcacca cggggctgga 840
aggatcgcgt ctgaggtatt ccat 864

<210> 3491
<211> 747
<212> DNA
<213> A.fumigatus

<400> 3491
aaaattcctc ttcaaccacc caggcttcca accaaaccca catctccgaa cccggatctc 60
tatttctctc gcaagatgaa gtacctctcc attgtcgctg catcccttgc agccatcctt 120
ccctccgtca gcgcctaccc catcaccggc gacggcgtca actgccgctc cggtcccggc 180
accaattacc ccgtggtcaa gtcgtacccc aagggccacg aggtctccat cgtctgccaa 240
gcccccggca ccgacatcaa aggtgacaag ctctgggaca agacctccga cggctgctac 300
gtcgccgatt actacgtcaa gaccggcacc accaactacg tcgccaagca ctgcgatagc 360
ggtagcggct ccggcggcgg cggcggctcc tcggccagcg gctccggcaa ggccatcgtc 420
gccgcagccc aaaaggagaa gggactcccc tacgtctggg gcggcggtgg ctgcaaggga 480

ccctctggcg gtggtttcga ctgctccggg ttgacccaat acgccgtctg ccaggcgctg 540
aagaaaacca taccccgcac ggggccaacg cagtacaaac tcgaacatgg gcaaaccgga 600
ttccgcgccc aacagcccaa ggagggcgat ttgcttttct gggctacttg cggggacttg 660
caaaaacaag ggtggcccac gttggtattc ttcattccgc ccccgccgca ccacccattg 720
cttgcgaaaa acggtacccc gtggtag 747

<210> 3492
<211> 435
<212> DNA
<213> A.fumigatus

<400> 3492
agtacctctc cattgtcgct gcatcccttg cagccatcct tccctccgtc agcgcctacc 60
ccatcaccgg cgacggcgtc aactgccgct ccggtcccgg caccaattac cccgtggtca 120
agtcgtaccc caagggccac gaggtctcca tcgtctgcca agcccccggc accgacatca 180
aaggtgacaa gctctgggac aagacctccg acggctgcta cgtcgccgat tactacgtca 240
agaccggcac caccaactac gtcgccaagc actgcgatag cggtagcggc tccggcggcg 300
gcggcggctc ctcggccagc ggctccggca aggccatcgt cgccgcagcc caaaaggaga 360
agggactccc ctacgtctgg ggcggcggtg gctgcaaggg accctctggc ggtggtttcg 420
actgctccgg gttga 435

<210> 3493
<211> 822
<212> DNA
<213> A.fumigatus

<400> 3493
gggaggggggg ggcataaaaa attcccagat cggttggttc ccctaccacg gggtaccgtt 60
tttcgcaagc aatgggtggt gcggcggggg cggaatgaag aataccaacg tgggccaccc 120
ttgtttttgc aagtccccgc aagtagccca gaaaagcaaa tcgccctcct tgggctgttg 180
ggcgcggaat ccggtttgcc catgttcgag tttgtactgc gttggccccg tgcggggtat 240
ggtttttcttc agcgcctggc agacggcgta ttgggtcaac ccggagcagt cgaaaccacc 300
gccagagggt cccttgcagc caccgccgcc ccagacgtag gggagtccct tctccttttg 360
ggctgcggcg acgatggcct tgccggagcc gctggccgag gagccgccgc cgccgccgga 420
gccgctaccg ctatcgcagt gcttggcgac gtagttggtg gtgccggtct tgacgtagta 480
atcggcgacg tagcagccgt cggaggtctt gtcccagagc ttgtcacctt tgatgtcggt 540
gccgggggct tggcagacga tggagacctc gtggcccttg gggtacgact tgaccacggg 600
gtaattggtg ccgggaccgg agcggcagtt gacgccgtcg ccggtgatgg ggtaggcgct 660
gacggaggga aggatggctg caagggatgc agcgacaatg gagaggtact tcatcttgcg 720
agagaaatag agatccgggt tcggagatgt gggtttggtt ggaagcctgg gtggttgaag 780
aggaattttc tatgggcaga tcataccatt tataggcatt ga 822

<210> 3494
<211> 1269
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (229),(260),(337),(378),(418)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3494
agcccaccgg gggaccatgc cggttgggcc gtccagttga atcgggcttc cgtgccgggg 60
ccgtccaacc ggggacacct ccaattggga tcgggtcatc acccctcagt gtctcaagat 120
tctgacaaaa tcggcgataa cagggccgac cccaccgggg gcagcaggtt cgcgtttgcc 180

agtttccgga agaaatacgc ccgttacgac gatcgggcaa agtcgaagna gaagctggcc 240
ccgtacgcca ttggacagan ctttagcgtg atccagtaca cgccggttct gaacgaccag 300
aactccgcca gtgacagcgg gagggccatt ctcgacntgc agtacatcgt tggtgtcagc 360
tcgcccattc cggtcacnga gttcagcacc ggtggccggg gtcttctcat tccggacntg 420
agccagcccg accccaacga caacagcaac gagccgtatc tggaattcct gcagaatgtg 480
ttgaagatgg accaggataa gctccctcag gtcatctcca cctcctatgg cgaggatgaa 540
cagaccattc ccgaaaaata cgcgcgctcg gtctgcaacc tgtacgctca gctgggcagc 600
cgcggggttt cggtcatttt ctcctctggt gactccggtg ttggcgcggc ttgcttgacc 660
aacgacggca ccaaccgcac gcacttcccc ccacagttcc ctgcggcctg cccctgggtg 720
acctcggtgg gtggcacgac caagacccag cccgaggagg cggtgtactt ttcgtcgggc 780
ggtttctccg acctgtggga gcgcccttcc tggcaggatt cggcggtcaa gcgctatctc 840
aagaagctgg gccctcggta caagggcctg tacaacccca agggccgtgc cttccccgat 900
gttgctgccc aggccgagaa ctacgccgtg ttcgacaagg gggtgctgca ccagtttgac 960
ggaacctcgt gctcggctcc cgcatttagc gctatcgtcg cattgctgaa cgatgcgcgt 1020
ctgcgcgctc acaagcccgt catgggtttc ctgaacccct ggctgtatag caaggccagc 1080
aagggtttca acgatatcgt caagggcggt agcaagggct gcgacggtcg caaccgattc 1140
ggaggtactc ccaatggcag ccctgtggtg ccctatgcca gctggaatgc cactgacggc 1200
tgggacccgg ccacgggtct agggactccg gactttggca agcttctgtc tcttgctatg 1260
cggagatag 1269

<210> 3495
<211> 486
<212> DNA
<213> A.fumigatus

<400> 3495
acaccgccag ctcagaagct tcctgccttg tatgtagtcg actccattgt gaagaatgtg 60
ggaactccct acacactttt cctgggtcgc aatatgtatc agactttcat gaatgcctac 120
acgctggtgg actcgcaaac ccgcagaaag ctggacgaaa tgctcaagac ttggaaggaa 180
cctgttccgg ggtcattaga tacaagaccc gtctttcctc cggaaattac acgcagcatt 240
gaaagcgctc tgatcaaggc gagaaccgcg gctctacagc aacagcaggc caggagccag 300
caggatatac ttaaccgcgg ccgggttggc actcctcctc atggctggac gaacaacact 360
acgctcaacc agagtgcgac tcggctcgcg ccttccacaa gtcagaatgg gcatgctcat 420
caggtccgaa atggacacac gctaaattat cacgctgcgg taaggcctat gctcgtcaca 480
aactag 486

<210> 3496
<211> 249
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (32)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3496
tatctgacac atacacagtt ggaccctcga tntactccaa cccctcaacc tttgcagcgc 60
tcggaagtgg atctcgcggc attgaatcgc gacatcgtag ttttgattgc agctgcccga 120
agtgatttcg ccaataaccc tctagaccct tctgtgcaac agcgtctcaa agctctttta 180
gacctgcaag gcatcctcca gcgtcaagaa ctcgtcttca cgcccggcgg ctggaaggac 240
catgtcgag 249

<210> 3497
<211> 420
<212> DNA

<213> A.fumigatus

<400> 3497
agacaaacag ctagaaggag ggaaagaaag catcccaata tccctgagtg ttgctacttt 60
cgcttgaaga ttccctttgt tccctttctc cctcgccttc attctcacct tgcccacgaa 120
caccgttgct tcacagcata cctgcctgtc atgtcgtctg ggcttgcctc tgatgaggtc 180
gccgaggatt acaagaactc cctggaggat ctcaccacga acgacaggtt ccagatcagc 240
aacttgaccg tcatagccaa agagaatact gaacatgcta tggccatctc cagagttttg 300
gagaaccaca ttcgaacagt aggtggtctt tgtttctcac tctcatgcat ttctccttgg 360
cttttgtatc tcgctcggcg ctcagctgtc tgtaagtttg accggttgaa ccacttctaa 420

<210> 3498
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3498
ccgcggccgg gttggcactc ctcctcatgg ctggacgaac aacactacgc tcaaccagag 60
tgcgactcgg ctcgcgcctt ccacaagtca gaatgggcat gctcatcagg tccgaaatgg 120
acacacgcta aattatcacg ctgcggtaag gcctatgctc gtcacaaact agctgtcgtg 180
aatgcccttt gtgatatctg a 201

<210> 3499
<211> 1161
<212> DNA
<213> A.fumigatus

<400> 3499
tacaagagcc gtgctcagct cagggcccct ggtatcctgc cccgtcgttc cgtcaaccag 60
cctgtccaga ctggtttgaa gtgtgtcgac tccatggtcc ccatcggccg tggtcagcgt 120
gagttgatca ttggtgaccg tcagactggt aagaccgctg ttgctctcga tgctatgctt 180
aaccagaaga gatggaacaa ctcttccgac gagagcaaga agctctactg tatctacgtt 240
gccgttggcc agaaacgttc cactgtcgct cagctcgtca agacccttga ggagaatgac 300
gccatgaagt actccattgt cgttgctgcc actgcttctg aggccgctcc tctgcagtac 360
ctcgctccct tcactggctg tgccatgggt gagtggttcc gtgacaacgg gcgccatgct 420
gtcatcgtct acgacaatct ttccaagcag ggcgtcgctt accgtcaaat gtctctgctg 480
ctccgtcgtc cccctggtcg tgaggcctac cccggtgacg ttttctacct gcactcccgt 540
ctcctcgagc gtgctgccaa gatgaacgac aagcacggtg gtggttccct tactgctctg 600
cccgttatcg agacccaggg tggcgatgtc tccgcctaca ttccaaccaa tgttatttcc 660
atcaccgacg gccagatttt cctggaatcc gaactcttct acaagggtat ccgtcccgcc 720
attaacgtcg gtctttctgt gtcccgtgtc ggttccgctg cccaggtcaa ggccatgaag 780
caggtcgctg gttccctgaa gctgttcttg gctcagtacc gtgaagttgc tgctttcgct 840
cagttcggtt ccgatctcga tgcctccacc aagcagaccc tcgctcgtgg tgagcgtctg 900
accgagctcc tcaagcagaa gcagtactct cccatggctg tgtctgagat ggttcctctc 960
atctttgccg gtgtcaacgg ttacctcgac ggtatccccg tcaacaagat cctcacttgg 1020
gagtctgact tccttgccag tgtcaagagc aaccagcccg agatccttga gaccatcgac 1080
aaggagggcc aggtcagcaa ggaactcgag gctcagctcc gtgaagtcat tgtgaacttc 1140
aacaagtctt tcaacgcata g 1161

<210> 3500
<211> 1245
<212> DNA
<213> A.fumigatus

<400> 3500
cgtcaggaaa aaacagtaca cggtggttca atcacccaat tgcctttgc tcacctatgc 60

gttgaaagac ttgttgaagt tcacaatgac ttcacggagc tgagcctcga gttccttgct 120
gacctggccc tccttgtcga tggtctcaag gatctcgggc tggttgctct tgacactggc 180
aaggaagtca gactcccaag tgaggatctt gttgacgggg ataccgtcga ggtaaccgtt 240
gacaccggca aagatgagag gaaccatctc agacacagcc atgggagagt actgcttctg 300
cttgaggagc tcggtcagac gctcaccacg agcgagggtc tgcttggtgg aggcatcgag 360
atcggaaccg aactgagcga aagcagcaac ttcacggtac tgagccaaga acagcttcag 420
ggaaccagcg acctgcttca tggccttgac ctgggcagcg gaaccgacac gggacacaga 480
aagaccgacg ttaatggcgg gacggatacc cttgtagaag agttcggatt ccaggaaaat 540
ctggccgtcg gtgatggaaa taacattggt tggaatgtag gcggagacat cgccaccctg 600
ggtctcgata acgggcagag cagtaaggga accaccaccg tgcttgtcgt tcatcttggc 660
agcacgctcg aggagacggg agtgcaggta gaaaacgtca ccggggtagg cctcacgacc 720
agggggacga cggagcagca gagacatttg acggtaagcg acgccctgct tggaaagatt 780
gtcgtagacg atgacagcat ggcgcccgtt gtcacggaac cactcaccca tggcacagcc 840
agtgaaggga gcgaggtact gcagaggagc ggcctcagaa gcagtggcag caacgacaat 900
ggagtacttc atggcgtcat tctcctcaag ggtcttgacg agctgagcga cagtggaacg 960
tttctggcca acggcaacgt agatacagta gagcttcttg ctctcgtcgg aagagttgtt 1020
ccatctcttc tggttaagca tagcatcgag agcaacagcg gtcttaccag tctgacggtc 1080
accaatgatc aactcacgct gaccacggcc gatggggacc atggagtcga cacacttcaa 1140
accagtctgg acaggctggt tgacggaacg acggggcagg ataccagggg ccctgagctg 1200
agcacggctc ttgtattaag ccgccgggct ggaaggacca cgctc 1245

<210> 3501
<211> 285
<212> DNA
<213> A.fumigatus

<400> 3501
tcactaaaca ataataaagc atgtttaccg ccaaatgcta tggacgtcct caatcgaggt 60
aatggagttg tatatttagg caacaccgcc tcctacagcc gttgttctca tctacgctca 120
ttctttattc caggtttcat ccaaatgcct gccggactta tcttcatcac cggtgctacc 180
ggctttattg gcagcgctgt ggccctcgaa gccctcaacg caggttactc gctgcgcatc 240
agcatccgca aagagtcaca gatccccaaa ctcaagaaaa ttctg 285

<210> 3502
<211> 486
<212> DNA
<213> A.fumigatus

<400> 3502
acaacgctgc ggaaaactac gctcctatcg caaatcaagg ccctgtatct gccccgtccc 60
gatggcgcca ctgctcccaa cccaggcaaa actgtgccta ccgttggcca gaatgtcgcc 120
acgattccat tatcggacat gtacctgaag atttgggatg tgggtggtca aatttcgatg 180
cgaaatctgt ggcagagcta ctactcgagt tgccacgcca tcatcttcgt cgttgatagt 240
acggacgtcg gacaagatcc agacattacg cgtctccccct cgaatcagaa acctggctcg 300
ttgtcgggcc catccgcgtc tggaagtggc cccgtcactg aagagatggc agggatcaat 360
gcgccgggaa gagagtttgg acggttggat gaatgtcgcc aggtactgga atcggtgtta 420
caacactccg atgtggctgg agtcccgatt ctcgtgctgg ccaacaagca agatcgggaa 480
gattga 486

<210> 3503
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3503
gtcgaagttg ttcgcatcaa ggagggtctt gtgcgcaagg tctttgaggg tgaatccgga 60

ggcggagtgc gcgatagccg cgtgttgcct gtcagtgcct tgatgggtac aggtgttcgg 120
gaagcagtgg aatggattca aagtcgagtt aagtggaata aggaaggacg acctcccatc 180
atgaaatga 189

<210> 3504
<211> 360
<212> DNA
<213> A.fumigatus

<400> 3504
ccgttggtag acatttggct tacaccacca gacttcctac atacgacagt ccttgagata 60
gccagttccc ggactccttt ggaggtcgac tctttcgtgt ctcatctaga gcagagtggt 120
gtgattccgg gtttggtcaa ctacaccttc aaccaccggg cacggctggt caaacctgtt 180
gtcagctttg acgcctcagc catggctctt agcttcgtcc ctgcagctgg agagccatca 240
cgatggagtc gctccgtgga cgatgacaac tatacgtatc atcatttgcg acgagatctg 300
tatgctgggg tggcagctac ggggtcttca ccacggaggc ggaaggtcac agtcctagac 360

<210> 3505
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3505
gacatagacc aaatcatccg cagctgccat ccaataccat taattgacta cggagatata 60
ttgtccgtcg gcttgcaaga actggactat ttccccgcat atggaatcga tttttgcggg 120
gctgaggaca tcgatatcaa tgcgtcaatc ccggtctgga gtacattggt atctgaaatg 180
gcatatctat cacatcagaa gaactaa 207

<210> 3506
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3506
tctatatcct ccttgtgcaa ctgtcatgca gataatataa gaggccagct ttgcaaaatt 60
cccaagattg cgacccccgc ggagaaccga attacttggg gtacctcaga gcctgaggct 120
ccgttctcga cacccactta ccaagatacc aacaagatta agtcttcacc gggggctgaa 180
ggagccgctc tattggcaat ctaa 204

<210> 3507
<211> 246
<212> DNA
<213> A.fumigatus

<400> 3507
cggtcgcgga cgcggttctt ccagtccgtg gtcaagaatg gcgtcaaggc ccgacagtct 60
accctcaaga gcgtcaaaga tgacaaggag caccggagga caaggatcag caccaagagc 120
ggatatgatc gacggatgga gaacaagaag aaggccctca ttgcagccag ccgcaacaga 180
aagtccaaaa cgcagtctac ggaccctggt agcgacgacg agagctggga tggcctcgac 240
ggctag 246

<210> 3508
<211> 513
<212> DNA
<213> A.fumigatus

<400> 3508
tcccttgaat tgaggcggct aatgatggaa cttctgcaac aggtctatct ggatgatccc 60
cttcctgcta atcgcaaaca cccctctcac acggccgaat cgttttacat cgactacccc 120
gagctggagg agacaaagca cttgaaaaga gggctgggcc tcgtaactac catatcggat 180
aacccccca tgctgaattg gatctacgcg gatacagaga cacatgagct gaagtatggg 240
aatcggacgc agagtgtgca gcatgtagtc gggccgtggg attgggcgga cgaggagacg 300
actatcacgc tggaagggaa gagggctttt atggctgttc aggaagagga tgggagttgg 360
gctgtctact ttgaccggga cggtgatgag ttggagtggg ttctcgagga ggagggtaag 420
ttggataatc cgtttgcgcc gataaagctt aagaggacga tggtcccgca ggttcctcag 480
gctgagcaga gtaataaaaa tgataattcg tga 513

<210> 3509
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3509
ggttcccctc tgattgctaa taaccagtct gcttcttcac ttctacgtga ggtgttacca 60
atgacgactc ttgtgccccg cgagccttac tccaaggaag agctagagaa gctctatcca 120
aaggagcttc agcttcaatt ggtccaggtg gtatgtgatg agatacaaac gtattttccg 180
cgccgagtta atcaagcata ctga 204

<210> 3510
<211> 1374
<212> DNA
<213> A.fumigatus

<400> 3510
ccagccaacc accctcaatc gtattcgggt ccttcctacc gtggtgggca ttcaggttat 60
cgtgggaact cccaaaatca tggccgcgac cagcgatttt ctggctctgg tcactcatcc 120
tacaatactg ggccgtccgg gcgtggccgt ttcaacagtt ttcaatggaa tgctcgcggc 180
ggcggcggct ctgtcagccc tcataccact catccggagc cctcacaaag cccagcgccc 240
cttcctgcgg caggagagca gagcttctca ggggagggag acagagacca agctttcggg 300
tctccgagca gagatctaca gaccttggat caagggtcaa aaccatgttc cgaggatgtg 360
gatttcccga agatatcgcg acctacacag ccgtccgaca ccaatgccac gccgaataaa 420
ggcggcaagt ttagctttgc cttcaaagcc aaaaccactc ctgcccctgc ccccaagcca 480
gttccagatt tggcacagag gatgcaggct cgagaacctc cacctcgtgt tgctgagcct 540
gctcgtagta gggtgcttct tggcccaccg ccgcgattca aacctgaacc acgctttgac 600
cgccgcgatc gagacagaga ccgggatcgg caccgaaatc gtgagcggga cagagggaga 660
cgcgaccgaa gagattttcg acgagacccg cgtgattacc gtgagcctag agatattcgc 720
gacaaccgaa aagaagatcg ccgctttgat cagcgacacg taggcaggaa ggaagatcgt 780
cggcaggacc ctcgtccacc tcgcggtcct cgggaacgtt ctccgggcgt gaagcaaccc 840
caagtattaa cccggccaaa gcctcggcct actctcccag aggagtacgc gaagtccgat 900
tccgtttatt accgaaaacc agggaacgag tccgtcattg gtgctggcac ctacggaaaa 960
gtcttcaaag caatacacgt ttatacccaa aggaaggtgg ccctcaaaaa gatacgtatg 1020
gaaggcgaga aagacggctt ccctgttacg gctgtccgag aaatcaagct tctccagcac 1080
cttcgcaacc ataatgtggt cagtttactc gaagttatgg tcgagaggaa tgagtgtttt 1140
atggtctttg aataccttc gcacgatctc acaggtctca ttaatcaccc gaccttcacc 1200
ctcaccgctg ctcacaagaa ggatctcgcc aagcaaatgt ttgacggctt gaactacctt 1260
caccaccggg gcgttctaca ccgtgacatc aaggcagcaa atatcctcat cagcaacagg 1320
ggctccttga agttcgtctt caccacaagg ggacggaagg atccgcgtat ggtt 1374

<210> 3511
<211> 1251
<212> DNA
<213> A.fumigatus

<400> 3511
agacggctca gtggcaactc tggcagccag cctggccaga gtcgtggtcc gcaaagccaa 60
ccgtcacaga acccccggg gacgtcgccg agtctgcatg atcgacctgc tcagggatcg 120
caagctgttg agaatgagga tagctcgaga gccttggttg tgatactcaa atcacaggcc 180
cacatcttct tcctacacgg caatagccat gtcattcctc tgccttttga ggttgattcg 240
gtattcgcca cccctcgagg tcttctcttc cagagaaaaa tgcaagagga agatactagt 300
atttacccaa tggcacctcc aaattcattc atctcatcat ttcttaccac tgacttccgc 360
gcctctgaat ccctggaact gccctctggc aaagtcaaac gaccatcatt gaccatttct 420
cctgctcaga acaccgcttt gaactgtcga gctactaaaa ctgcgaactt gccccgggtg 480
ttctctctca tagaccctca ctctgaaatg ggcctggttg tgaccaaaca gtcctcacgt 540
tggttacagc gtagtatcaa cagcaaaccc tctggcctgg atgcccttga tcctgccgac 600
gaaattgtat atgtttctcc agttaatgaa ctcttggggt ctagccgggc tctgagtaag 660
agtccgttga ccctcgtggt aaccgtcaac ttaaatactg ggctgtacac tctctggacg 720
acacgatata gagaggacga gactggtcct tcctccaaga aacaacggag gcgagacaca 780
gggggcacgc gatccaagcg tcgtagttcg catttcagca tggcgacagg agcaaccaca 840
ccggctgcac gcccgtccgc ggccagggag agcttcgggc cccgaggcga caactggaac 900
gcgtctggct tctcccactc ccagtactcc gtcgacggca ggccggatga ggatgacctc 960
gcatcaagat tgggccagga cttcggcgat ctcggtgttc cgtctaagac gtcacggcgg 1020
gtgagttcca tgctcgctcg cactgatctt gcgagcagcc aggataggat cgcattctcg 1080
gatcttgcta caggaagtca aacaggcacc gtgcctcatg gaggtttgcg ccaatccatt 1140
ggcggaaaca gcactcgtgg gagtttagga tttaatccac gccgttcgct gccaccgggg 1200
aactggctcc gtatacagca cagcaagcaa tttcgtcgat gcaccggttg a 1251

<210> 3512
<211> 501
<212> DNA
<213> A.fumigatus

<400> 3512
cattggcagt gtgacgtgct cgttgcaagc ttcgacgcga cagtgctgcg cacaacggga 60
gtcaagcttg tacagcattt atgggccagt gatatcagcg ctgaattggc tgtcgacgct 120
tcatccttgg aagaactcct atctgagtac aaagagcaca accatagctg gattgtcatc 180
gcaaaacaag atagtaagga gcgaggcttc aaagtgaggt gtctcgcccc cagagaagaa 240
ctggacatca ggagctctga acttattcct tggcttcgga acgagatacg tgcgcgcaat 300
caacgcgagg gcgcacccga cctacggcag tcaagattgc caagtcagtc agatgcgatt 360
gcaggagcta atgaaagatc gagcgacgtt cgcatcttgg tcagccagca ccggagcaag 420
aagacgaaca gaagaaacat cgtcgagtct ggtatgtcat gttcgaagaa ttcccatcat 480
tgcacgaata atcagaactg a 501

<210> 3513
<211> 324
<212> DNA
<213> A.fumigatus

<400> 3513
tcttttgagg cagctctcct tcgttctcgg gaggtagtcg agaaggcaat caacgggccc 60
attgcggcta ttgacactcg agatgacctg cttgaagcga tcagggatac gcgcctgtcg 120
gatccggaaa gctggcgctc agtcattcaa agtgcccctc tgaccgagcg aaagtatctc 180
agtcaagtcc atgaactact cctggacctc tccaatgaat gtcgcgcgaa cgatggcccc 240
gacagtgtca gcaatgcctt tatttacaac taccggacag gatcgtgcct gtattatgac 300
cttgggcgtg ggagtgaaaa gtaa 324

<210> 3514
<211> 231
<212> DNA

<213> A.fumigatus

<400> 3514
caagcaatat acaatcatat cattactctg tctggtcgtc atatcttcta ttattatcgt 60
ttcaagagca cagactcatc tcgattatta tctacatctt catcttcatc atcatcattg 120
ttagatcaat catttgttga gactccagcc aactggtccc cagtgttatc aattatttgc 180
tccggttccg ctctctccgc tcccccgatc aagatcgcat tttacagttg a 231

<210> 3515
<211> 579
<212> DNA
<213> A.fumigatus

<400> 3515
ggctccatag agcaagaaga tccccaagct tccatacaag caaacaagcg agaaaagcaa 60
tggcttcaga tacttgaccg caaacacatc cgccgtcacc agcggatccc ccaccaccca 120
accctccaca tacacaaacg ccgcgagaag caccaccccc agcgcaagac acacatcgat 180
atacgccgtc gcccactgcc tcggcgcatg cgcactcccc gcaatggcaa acaccagcaa 240
caccagcccc ggcaccagca gcccaccccc cagccagtcc atcccgactt tcctcgtttt 300
cctgcgctcc gcaaaatcac tcgggatcga gaaaaacgag gtcacggccg tcaccgcggc 360
cagaatcccc ccgatgaaga aataccagcg ccaggtgaga aacctcccgc tcaaccccga 420
gaagaaaatc cccacgaaga aacccagcgc cgcgcaagcg ccgtacacgc tgaaaaacaa 480
gttcttccgc ggcccggggg cggtacacac tacctaaaat catcatgcct gaaagcagat 540
acgcagcgag cgctaaggct tgcactgcgc gggagatga 579

<210> 3516
<211> 507
<212> DNA
<213> A.fumigatus

<400> 3516
agcaagaaga tccccaagct tccatacaag caaacaagcg agaaaagcaa tggcttcaga 60
tacttgaccg caaacacatc cgccgtcacc agcggatccc ccaccaccca accctccaca 120
tacacaaacg ccgcgagaag caccaccccc agcgcaagac acacatcgat atacgccgtc 180
gcccactgcc tcggcgcatg cgcactcccc gcaatggcaa acaccagcaa caccagcccc 240
ggcaccagca gcccaccccc cagccagtcc atcccgactt tcctcgtttt cctgcgctcc 300
gcaaaatcac tcgggatcga gaaaaacgag gtcacggccg tcaccgcggc cagaatcccc 360
ccgatgaaga aataccagcg ccaggtgaga aacctcccgc tcaaccccga gaagaaaatc 420
cccacgaaga aacccagcgc cgcgcaagcg ccgtacacgc tgaaaaacaa gttcttccgc 480
ggcccggggg cggtacacac tacctaa 507

<210> 3517
<211> 561
<212> DNA
<213> A.fumigatus

<400> 3517
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attcccggca ccatcctcat gctcatctcc tgcgtggggt acctcgggtc cggcctcttc 180
tttgccctca taccggagaa cggagggtac tgggcctttg tcttcccgtc catgatctgc 240
gggaccatcg gaatagacat cagtttcaac gttaccaaca tcttcatcac aagcaacatg 300
ccgctggaga agcaagggct ggcgggggcg ctgatcaact gcacgttgca cctggggatt 360
gcgctgcatc tggggtttgc cgacatcgta caggtcaaca ccgacgatca agggctgcgg 420
aagagctacc aagcggtttt ctggttccaa gttgcgctgt ccgggctggg gctagtggtg 480
aacgcgatat ttgtgcggat tagtcgggcg aagagcgacc tgaccgttga cgagaggagg 540

gctttagaga gtaatctata g 561

<210> 3518
<211> 519
<212> DNA
<213> A.fumigatus

<400> 3518
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tggcgctggt atttcttcat cgggggggatt ctggccgcgg tgacggccgt gacctcgttt 180
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gcgcatgcgc cgaggcagtg ggcgacggcg tatatcgatg tgtgtcttgc gctgggggtg 360
gtgcttctcg cggcgtttgt gtatgtggag ggttgggtgg tgggggatcc gctggtgacg 420
gcggatgtgt ttgcggtcaa gtatctgaag ccattgcttt tctcgcttgt ttgcttgtat 480
ggaagcttgg ggatcttctt gctctatgga gccttatag 519

<210> 3519
<211> 1389
<212> DNA
<213> A.fumigatus

<400> 3519
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catcatgtct cgcactcaat ggataatcat gcaccatgga tggcggacca gattaccgga 180
tggttcagtc aagagatgct tgacactttg cctgatctcg ttttcgcggt gaatgtaaag 240
gacgaaccta aagtggtggt cgcacacgat gcactcgaac aagtactctc ccaggcccgg 300
actgctctcc ataattctat tggtagggat cctgagttgt cccaacaggt caagtttatt 360
gaagtcggaa gacagaacgc ttgggaagcc ctcaccatgt cttgctccat agactttcct 420
tccagggcct tctcgaagac gacagcgtca tctacggtat cagaggtggg attactatcg 480
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gagattgtgc gttacatgtc gaaggagccg gagggcttag ccttggggca gaagatcgct 1260
gatcaaagcc gagactggtc caacaaagtg ctgcgcaaaa ttgatatgag gcttgtcttt 1320
tggagattgt tgttggagta tgcgagagtc ctggatgaga atcgggaaca aatgcattgt 1380
tgctcctga 1389

<210> 3520
<211> 516
<212> DNA
<213> A.fumigatus

<400> 3520
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ctcgcagtca accagacctc aggtgggcgg acaaaaggga ggtgtagcta tttatacggg 120
gctgcaactg ccgtggggat gatccgagga gggggtggag aaccccagaa attgcggtgt 180
ctagtcgggg ctggtgcctg cggaactaca aaaagcgaga aagccactta ccatgtacac 240
gtgccacttc tctctgagga tcttgacctg ctcctcggtc aatccagtga aactgaacat 300
gccgatttga ctggtgatgt gttcccagtt gccaggtgtg ccctttgcct cgaggcgctc 360
ccgcagaccc ttgcgcatct ccgcgatacg accgctcatc gtgcgcaggt cctcctccca 420
ctcagcgaag agctgggggt cattgagaat gcggctagcg atgcgcgccc catacgcagg 480
cgggttagaa atttcagagc gctgcaggat ggctag 516

<210> 3521
<211> 414
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (42)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3521
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tatggggcgc gcatcgctag ccgcattctc aatgaccccc agctcttcgc tgagtgggag 180
gaggacctgc gcacgatgag cggtcgtatc gcggagatgc gcaagggtct gcgggagcgc 240
ctcgaggcaa agggcacacc tggcaactgg gaacacatca ccagtcaaat cggcatgttc 300
agtttcactg gattgaccga ggagcaggtc aagatcctca gagagaagtg gcacgtgtac 360
atggtaagtg gctttctcgc tttttgtagt tccgcaggca ccagccccga ctag 414

<210> 3522
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3522
tccagtcatc tactgcagaa tttccgtggc caacatggca aggcgtactt gttcaacact 60
gttgtcaatg taacccactc cgaggctgtg gagcgtaaca tgaccaccgg aaggcatatc 120
gtccgagaca tattctgcag gcaatgcgcc gaactagtag ggtggaagta cgacaaagcg 180
tacgagtcga gtgagaaata caaggaagga aagttcattt tggaggaaga attattatgt 240
gtggtgtgtt ga 252

<210> 3523
<211> 453
<212> DNA
<213> A.fumigatus

<400> 3523
agagttatat gccatatctg cagagtttgg ggcatcatca tcatcatcat catcatcatc 60
gcaccttcga ttcttatggg gcatccagga gaagcatata tgccgatgac ttcgtacgcc 120
ctattgatta tagggatgat ttacgattgg ttagccaacg ccagcacggt catgtgcaaa 180
caactggacc tatggattct cttcccagac caactaatga ccaccttcga caccattcaa 240
gcagggaatt tcttgatccg ccgtatcgtg cactcatcaa tccaccacat acagctccaa 300
atcatcgagg cgcgggaatc agtcgacgcg ctgatgatca aacccttgcg gattattata 360
gccctagtta ctacagtcga catgaaacat acggttcttc tcttgcactt gaccgggatg 420
ccagaactga tgaacgacaa atgcaacatt tag 453

<210> 3524

<211> 588
<212> DNA
<213> A.fumigatus

<400> 3524
aggtggctaa cgcatgcgcg gtccttccgg tcctgggtga agagttatat gccatatctg 60
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gcatccagga gaagcatata tgccgatgac ttcgtacgcc ctattgatta tagggatgat 180
ttacgattgg ttagccaacg ccagcacggt catgtgcaaa caactggacc tatggattct 240
cttcccagac caactaatga ccaccttcga caccattcaa gcagggaatt tcttgatccg 300
ccgtatcgtg cactcatcaa tccaccacat acagctccaa atcatcgagg cgcgggaatc 360
agtcgacgcg ctgatgatca aacccttgcg gattattata gccctagtta ctacagtcga 420
catgaaacat acggttcttc tcttgcactt gaccgggatg ccagaactga tgaacgacaa 480
atgcaacatt tagggtatga tctcgaccag aatcttcctt ggtggaattg cctgtcttcg 540
tttcaccaac attccctctt gattttctct tcgtttcgaa cactgtga 588

<210> 3525
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3525
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aagaatgcga agatcccgaa tgcactaagg agaaagaaca tttacgacgc catgcagcga 120
agcatcgccg caggctcaac tacattcgag agagtcttca ccacggggct ggaaggacga 180
acgggcatc 189

<210> 3526
<211> 1398
<212> DNA
<213> A.fumigatus

<400> 3526
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ctttttttt tcgtttcccc ccccaggcag atcttttact ccgtacacct cccttcgctc 120
ttccatcctc ctggcttcaa ccaaagtaca acaacaacaa caacaacagc atgcctcgta 180
ccccctcac ctaggtacag catgccccat gggattcgag ctccgggaga tggtatcacc 240
gggggatata caggcgatag cctagcattg aaaatcacca ttgcgactct ggcgggaatc 300
acctggtaca atgccatcga actcgtcatt ctcgtcttcg tcaccttcag caagtatcat 360
ggcacctact tctggagctt gctcgtctcc tcgtctattg ggctcctccc ctactcggtc 420
ggcttcctcc tcaagttctt ccagctgacc gaccagacct ggctgtccgt caccttcatc 480
actgttggct ggtggtgcat ggtcaccggc cagtccatcg tcctctactc acgcctgcac 540
ctggtcgtgc gcaacccacg catcctgcgc cgcgttctca ccatgatcct cgtcgacgcc 600
gtcatcttcc acatccccac cactgtgctg acctacggct ccaacttggc cggccccgtc 660
gacgccccgg cctacatccg cggctacaac gtgatggaaa agatccagat gaccggcttc 720
tgtatacagg aattcgtcat ctccgccctc tacatctggg aaaccatccg catgctgcgc 780
ctcgacccgg accgcggcaa gcgcaagatc atgtaccagc tcgtcgccat caacctcatc 840
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cactaccccg acttcgtcga cgcgacccgc atcacatccg acctcacgcg cgctgtgccc 1140
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atctccatcg ccatgttcga gcactcggag aatgcaaccc cctcgctccc cgaccaggct 1260
accggccact ccgagatctc gcagtcctgg agcggcgaga cccagcgcga cgtcagtccg 1320
ctagatttta cgggttcggt gcataaacag cacaatagta taagtgtgtc agcgccggcg 1380

cccgataaac cgggttga 1398

<210> 3527
<211> 441
<212> DNA
<213> A.fumigatus

<400> 3527
acaaatacat catggaaacc atgctcaagg gcgtcatcta cagcatcaag ctcaagctcg 60
agttcgccgt cctcggcaaa ctcgtctacc tcgttcacaa ccatgtctgg aaatctgacc 120
ccatcggcgt cgccggcgag gactgccacc atcagcacta tatcaatcac accgccggct 180
actcccaccc cgactaccac taccccgact tcgtcgacgc gacccgcatc acatccgacc 240
tcacgcgcgc tgtgcccccg gcatcctcgt ccgcaaacgc tcgccgccgc tgccaccccc 300
ggatggactc ggacgacatc tccatcgcca tgttcgagca ctcggagaat gcaacccccc 360
cgctccccga ccaggctacc ggccactccg agatctcgca gtcctggagc ggcgagaccc 420
agcgcgacgt cagtccgcta g 441

<210> 3528
<211> 741
<212> DNA
<213> A.fumigatus

<400> 3528
cctagcattg aaaatcacca ttgcgactct ggcgggaatc acctggtaca atgccatcga 60
actcgtcatt ctcgtcttcg tcaccttcag caagtatcat ggcacctact tctggagctt 120
gctcgtctcc tcgtctattg ggctcctccc ctactcggtc ggcttcctcc tcaagttctt 180
ccagctgacc gaccagacct ggctgtccgt caccttcatc actgttggct ggtggtgcat 240
ggtcaccggc cagtccatcg tcctctactc acgcctgcac ctggtcgtgc gcaacccacg 300
catcctgcgc cgcgttctca ccatgatcct cgtcgacgcc gtcatcttcc acatccccac 360
cactgtgctg acctacggct ccaacttggc cggccccgtc gacgccccgg cctacatccg 420
cggctacaac gtgatggaaa agatccagat gaccggcttc tgtatacagg aattcgtcat 480
ctccgccctc tacatctggg aaaccatccg catgctgcgc ctcgacccgg accgcggcaa 540
gcgcaagatc atgtaccagc tcgtcgccat caacctcatc atcatcctca tggacctcgg 600
cctgctcgtt gtcgagtaca tgaacaaata catcatggaa accatgctca agggcgtcat 660
ctacagcatc aagctcaagc tcgagttcgc cgtcctcggc aaactcgtct acctcgttca 720
caaccatgtc tggaaatctg a 741

<210> 3529
<211> 231
<212> DNA
<213> A.fumigatus

<400> 3529
atcactgctt ccatgtctgc tggatccttc gccggtgcaa ttgcggctgg tttcatctcc 60
gaccgcattg gacgtcgcct atccctgctc gtagcctcgc tcgtctggat caccggggcg 120
gtcatccaat gtagcgcaca gaatgtggca cacctagtcg ccggtcgcgt cattagcggt 180
ctttcaggta ttcttcccgg tcatcattca acagaactcg acagaagcta a 231

<210> 3530
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3530
aacgaggacg tgcgtgtcat gttcagtgac ttcggtcgtg caaaggtcac tcggaaacgg 60
aaatcctcgg gacagaagcc tcaattgtca aagtctaagg aggcagaaga tggctatgcg 120

gtacgaggtc gttgtctagg tcggttgagc cacgtcattg cgtggagtaa ttactacagt 180
agcgaaagca aggatctcca gcgatgtgga tcgtacatcc ccccagaggc ttacttcaat 240
gatcaaaact caaactaa 258

<210> 3531
<211> 966
<212> DNA
<213> A.fumigatus

<400> 3531
agacccctttt atctgggttc cgccaaatcg aacatcggcc acggggaatc agcttccgga 60
gtgacatcct tggtcaaggt cctgttgatg ttgaagcaga acatgatccc gccccactgc 120
ggaatcaaaa caaagatcaa tcacaacttc cccacggatc tggcccagcg caatgtccat 180
attgccttca agccaacccc ctggaacaga ccggtctcgg gcaagcggaa gatgttcatc 240
aacaacttct ctgctgcggg cggcaacacc gctctcctga tggaagatgc ccccctgcgt 300
gagatcacag ggcaggatcc ccggaatgtg catgtggtgt ctgtgacggc acggtcgcag 360
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gactgtgcca cattcagaag cacgattcac cgactcgatt gcattgctca aagccaaggg 720
ttcccctcca ttctaccgtt gattgacgct agtatgcctg tggaagaact gagccctgtc 780
gtgacccagc taggaaccac atgcctgcag atggctctgg tcgactactg gaaaggtctt 840
ggtgttcctc ctgcgttggt tctgggacat aatctgggaa aactacccac gttgaacagt 900
tgcggcgtct tgtccaccca gcgaaccaat ttaccctctt ggggccgtcg cgcgccattt 960
ttttag 966

<210> 3532
<211> 354
<212> DNA
<213> A.fumigatus

<400> 3532
agggtgctag ataagcttac catcaagagt attacccccc ctactactgc tcacggacct 60
cctacagatg ctgaatggat tgtaaagacc ccttatacta ctactgaggt acaaaggcag 120
atggagctta ttaagcagct tattaaatgc aactcccaaa gtcccccaac taaggctacc 180
cgtcagcttg ctaaggcagc tgaatctact atgcataaag tccttctcct agatcaggag 240
ataaagggcc tacatacagc aaatgagaag cagaagcgaa agcgtgcaac ccctagatct 300
tatattgcta ctggaggtgt tctgacaggt gctgaaggcc agcaacttgc ctaa 354

<210> 3533
<211> 804
<212> DNA
<213> A.fumigatus

<400> 3533
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gagggcgtca acacccagcc cgtcaaccag atgaccctcc actccacgga cgggtgctcc 120
atcgccaatg gcggcttcac cggcaccctg ctcaccagca actgctacga ctatgccccc 180
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tttagcgaga tgcagattgt atgtcctttc cgtccccgct ccatttgtcc cccttgggtt 480
ttgccgcggg ctgacagatg gaaaacaaat aaggtcttcg atacgacgtt ctgcggcggc 540

tgggcaggca gtgtctgggg ctctggtagc tgtgcgtccg tggcgccctc gtgccaggat 600
ttcgtcgcga ataacccctc tgcgttccgg gaggcgtact ggctcattga atcgctcaag 660
gtgtatcagg atgcgcctgg ggagagtaat aacatgagga tgaatgccac tagccatctg 720
aatgtgcagt tgcctcggaa gggtggcagg cgcagtcctg gtctgcatgg tcgtggcttt 780
cttgagggca ctggtaagtg gtga 804

<210> 3534
<211> 603
<212> DNA
<213> A.fumigatus

<400> 3534
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ccagcaactg ctacgactat gcccccagcc aagacaccaa cgcaggatgc ggcatcgctg 120
ccacctcaag ccggacatac gggacggggt tcaacaacgc cggcggcggc atatacgcaa 180
cagagtggac ctctgcaggt atcagcatct ggttcttccc tcgcggatcc acccccacgg 240
atatccgagc cggcacaccc aacccgacga attggggccc gccgctcgcc aagtttgccc 300
cgggaagctg cagctttgat gcccacttta gcgagatgca gattgtatgt cctttccgtc 360
cccgctccat ttgtcccccc tgggttttgc cgcgggctga cagatggaaa acaaataagg 420
tcttcgatac gacgttctgc ggcggctggg caggcagtgt ctggggctct ggtagctgtg 480
cgtccgtggc gccctcgtgc caggatttcg tcgcgaataa cccctctgcg ttccgggagg 540
cgtactggct cattgaatcg ctcaaggtgt atcaggatgc gcctggggag agtaataaca 600
tga 603

<210> 3535
<211> 411
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (22)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3535
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gttactccct ggctccacta tgttccgatt gatgtccgtc tgcacggagt ttggagcacc 180
ctggcatact tttctaaatt cgacgtacca gtcacggaag gccccgacgg tcagcctaaa 240
gatacaatac agcgacacga tgctcgaggc aagtatattg ccgaagaggg ccgcaagtgg 300
gccgagaagc ccctgcggaa agaggacatg gagatctact tcttccgttt gctattggag 360
tggggccgcc tgacggatga taatcgagat atgcttggat tcaagatttg a 411

<210> 3536
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3536
aaggattggg ttactgttgc cctcgccgtt aagtcggggc cggacaatcg ggtggtggag 60
atggtttcta catcaggaac gcaattcatt tatggtcgtt taacaaataa tgaagcagac 120
ctagagccca ccaagtaccc tcagtcattc tggttttggc ataggcctat atcaagccag 180
taa 183

<210> 3537
<211> 243

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (240)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3537
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actgtcgcag ctgcttccat gctgtctcat ctctggtcgg caactgtgta tcctttagtc 120
acagaccaac ttcatgttcc aggtttatct agctctcttt tcgttaattt tgtctgtgat 180
ataccctttg ctgtgcctgt tgttctagtg ggtggagtat ttgactggta tagcatggan 240
tag 243

<210> 3538
<211> 753
<212> DNA
<213> A.fumigatus

<400> 3538
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tttgatctct tccggctccc gagttgtgag atggtcacca tgaagctgct ctacctcaca 120
tcgtttgcct ctctggccgt ggccaatggc ccaggatggg actggaagcc ccgagttcat 180
ccggttagtg ttcctctcgc cgggtttgtc tgctgtatgc taacagcatc ctgtctatta 240
cagaaagtcc tgccccaaat gatccatttg tgggatcttc tgcagggcgc tcaacagctg 300
gaagacttcg cctatgccta ccccgagcgc aaccgcgtct ttggtggacg ggcccacgag 360
gacaccgtca actacctcta ccgtgagttg aagaaaaccg gctactacga cgtttacaag 420
cagcctcagg ttcaccagtg gacccgagcc gaccaggctc tcaccgtcga cggccagtcc 480
tatgacgcca caaccatgac ttacagcccc agcgtaaacg ccacggcgcc gctggcagtg 540
gtgaacaacc tgggctgcgt cgaggctgac tatcccgccg atctgacggg caagattgct 600
ctgatctcgc ggggcgagtg cacctttgcg accaaatccg tcttgagcgc caaggccggg 660
gcggcggcgg cactcgtgta caacaatatc gagggttcga tggcgggaac tctgggtctt 720
caccacgagg cgcgaaggat ccgcgataag gta 753

<210> 3539
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3539
ccaagtccat acagtgtgtc tatcgaacgt gaccacaagc cgatccaggt ttgcaagaag 60
ggccaacctt ccgtcgccgt caagatcgaa ggagccaacc agcctatgta cggccgtcaa 120
ctagaagaga aggacaccct ctactcgcac atctcccgtg ccagtatcga caccctcaag 180
gagttctacc gttcggacgt atctatggag gaatgggctc ttattaagaa gctcaagccg 240
gtgttcgaca ttccttga 258

<210> 3540
<211> 714
<212> DNA
<213> A.fumigatus

<400> 3540
agaaactcct gtcccaagtt cgccataatg ttccccaaca aaggaggttc aaggcccgcc 60
cttgggtgtc aagattcgct ggccaacgct cttgagcaat cccattgccg gttcccggtt 120
tattggttgt tggaccttaa tgccgccaag gagattattg aggaaggaag tcatgtcgaa 180

tctggagacc tcttaaccaa ggtttcccgt gaccacggtg gtgtcagtgt ccaggcttct 240
acccttggtt ctttcgaggc tctgctcgag ttcctccgtg tctcaaagat ccccgtcgcc 300
aacatttcca tcggtctgtt ctacaagcgt gatgtgatga tgtgtggtac catgttggaa 360
aaggcgaagg agtacgctgt catgctttgc tttgacgtca aggtggacaa ggaagcggct 420
gcatacgcag aggaagttgg cgttaagatc ttcacggccg acattatcta ccacctgttt 480
gatgacttca ccaagcacat ggcagagttg accgagaaga gaaaggaaga gagcaagctg 540
cttgctgtct tcccttgtgt gctaaggccc gttgcggttt tcaacaagaa agaccccatc 600
gtcattggtc tagatgttat tgaaggcagc ttgcgaatgc acacgccaat ttctgctgtg 660
aagaccaacc ccactacggg tgctaaggag atcatcgatc tcggcagagt gtaa 714

<210> 3541
<211> 618
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (476)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3541
aaaatgcatt caagcgctta tgccgacatc cttccgatga cgatcgggaa tcgtgtatca 60
tttgaagatt gcgagcttta cccagctcct gactcttgcg ccgatccagc ctactttccg 120
aacgaatctc aatttcaact gcgatcgtcc catctccaga gcattcctaa gactcattac 180
ttccctgcgt atatgtcgtg gacccacgga tctcttccct cgcacactgc tggtcctttg 240
tcggtaatgg agatgggtct ccaccctgtt ctcttgagtc cagatcgcgt cgcatcacct 300
tggagcggct actcctccat ctctggtgca gagagccctg gcagcaccgc agatggtagc 360
tttgcacaca gcaacatgat ggaaccctac ccgtccccac cctatgccta tgatgatcca 420
agagattcct cagtcaaggc agaacaatat tcctcaccag tgacgtctat cactanctcg 480
gtcgccttgc ctcaaataca aacctatcct gaaccccgac cgatggtgaa atcaccctac 540
tcagtgactg cgccagcaca gcccaatgtt ttcgaagaac acaattgctc tgaaaggatt 600
ggaagtcttg gcagctca 618

<210> 3542
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3542
ctggggccat tggtgtgtat atcgctcctg gggataggac atgggtatat gttgacttca 60
caactcggtt cccaggtaac ctcttgggta attagccagg aaggtggact tacggtgggg 120
tttattaccc ctttgttggt taatttcaag aaccctattt ggtttcagga ggggaattac 180
cggggaacaa attga 195

<210> 3543
<211> 381
<212> DNA
<213> A.fumigatus

<400> 3543
tacgatggga atgcaattgg acgcaacagc aaaaacctca ccgtcgcact ctccaccctc 60
tccacacaca ccaaaccgca gcccccgtcg caggacgacg agcagaaggg gagtgcaaac 120
gacccctcc tccgcgacat ccaactgccc cccgagatca tcgactatgt ggacgcagcg 180
cgcaacccgg acatctacac gcgggagttc gtggagctgg tgcagcgcgg gaaccaggat 240
ctgaagggca agaaggaggc gtttgcgagt ttccgggatg tgcttgctag ggagatgagg 300
agtgcgatgc cggagtgtcg gggggaggtg gagagggtgc ttgctgcaac gggggggagcc 360

agggctgata ctgagcagta a 381

<210> 3544
<211> 450
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (378)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3544
tgcaggcgcc aaaacccgac aagtcgacat tatgactacc gattgatcct ggggcgagtg 60
gaagctttga tgactgctcg tgaggaggag gatatcctga cattggctaa tcttcttcgc 120
tccgggcttg tgcgcaatct gggcaatatc acctccccga aactcttctt acatgcgtac 180
gctggcacga aactgctcat tgatgattat atcactcaag tcgcactttc aatccagcac 240
atagcggctc tgcagaccgc tccagtccac gagagtgggt tcacctcgca ggccaagctg 300
gagctcctgc atgatacgcg ccaagctttc ggtaaaacaa ctctgctcct gcaaggtggc 360
tcgatatttg gggtatgnca tcttggtgtg gtcaaggctc tgcatctgca gggtcttttg 420
gccaaaatca tcaccggatc cggatcatga 450

<210> 3545
<211> 249
<212> DNA
<213> A.fumigatus

<400> 3545
attgttcgcg gttccttcca gccccgtggt gaagatcaag cgccaagcgt tcaatctgaa 60
gtctgggaag aagagaggct cccgttctat aggccagagc aattctatcc cgtgcatatc 120
ggcgaattac tgaattcgaa ataccgggtt gtgggaaagc ttggctatgg cgcttattct 180
actgtatggc tatgtcatga gaaggggtgt gctttggctt tttcttttcg agatgatgac 240
cagtactaa 249

<210> 3546
<211> 270
<212> DNA
<213> A.fumigatus

<400> 3546
attcgaaata ccgggttgtg ggaaagcttg gctatggcgc ttattctact gtatggctat 60
gtcatgagaa ggggtgtgct ttggcttttt cttttcgaga tgatgaccag tactaacctg 120
gacctcgcaa gtgaacaaaa atacgtagct gttaaagtct tggccagtaa tcatcaggag 180
caagccctat ctggagagtt gggcatctat aaacacttga gccgtctgaa atcgtcccat 240
atcggaagtg cctatattcg cggcttgtaa 270

<210> 3547
<211> 366
<212> DNA
<213> A.fumigatus

<400> 3547
ggtactttcg accttgtagg tccggacggc atccaccgat gtgtggtgca tccaccaatg 60
catatgtcct tacatgagct gcgaatgcgt tctagggacc ggaggtttag cgagtctttg 120
ttcaaggaaa ccttgctatg tatcctacag gctcttgatt tccttcatag agaagggaat 180
gttgttcata ccggtatgtc ccccgcaaca gctgataagc gggaatattt gttggaaatg 240

actgatggtg ttacagacat caaagcgacg aacatcttgc ttcgcattga tgatgaatct 300
atattacaag acttcgagaa agccgagcat caaagcccaa gtccagagaa attcttgggt 360
aattaa 366

<210> 3548
<211> 537
<212> DNA
<213> A.fumigatus

<400> 3548
agaccagcct gtgacacctt ccgctctgga gccgtggagc agttacgagt ccatgctcgc 60
aatttgaagg aacttagtac ccgggagaat gctggagagg ttgaactcta cgagaaggga 120
tatggaaagg atgcagcgaa tgtagcgaag gatgcagtgg agtacggtgc ggcgaatcat 180
ttcgacgttg tcttgattga tactgccggt cgccgtcata acgaccaacg ccttatgtct 240
tcgctcgaga agttcgccaa gttcgccaaa ccagataaga tcttcatggt cggtgaagct 300
ctggtcggta cggacagcgt gatgcaggct cgcaacttca accaagcttt cggcactggg 360
agaaacctcg atgggttcat catcagtaaa tgtgataccg ttggtgacat ggtaggtacg 420
cttgtcagca tggtgcatgc tacaggcatt cctattgttt ttctgggtgt aggccagcac 480
tatggtgatt tgaggggcct aagtgttcct tgggctgtca atctgctgat gaagtga 537

<210> 3549
<211> 282
<212> DNA
<213> A.fumigatus

<400> 3549
aaagcccgga ttcctggttc ttatccgctg caggctatcg tgctgctcgt cgctcggacc 60
cgcaacatgg cctttcttct cactctcgcc gcgctcggat gctccgccca gggagccgtg 120
ctgccacgag cgagcatcga cagtgatgcg gtggtaggat ttcctcagac tgttcccagt 180
ggtactaccg gagaggtcta tcttgcctat cagccctacc tcaaggtggt gaacggttgc 240
gttcccttcc ccgcagtcga tgcagagggc aacaccaagt ag 282

<210> 3550
<211> 243
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (210),(213),(216),(217),(218),(219),(221),(222),(230),(231),(239)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3550
gttcccccac ggcacgacac gggattctgt tggagtgttg gggctaatat caacagcgct 60
ggcctggccc cgaccggcgc atccaacggc gactgcgcca gcagcaccgg ccagatctac 120
gtgcgcggga ccacatatgg taattactac gcccttatgt actcatggta ttgtcttcac 180
cacggggctg gaagaatcgc gcgtcagtcn ccnagnnnnt nncaaagggn ngtcaattna 240
aaa 243

<210> 3551
<211> 405
<212> DNA
<213> A.fumigatus

<400> 3551
gaaagaagaa acagcagcag cagcaggagt ctaagcctca gcctgaacct gaaccagcag 60

agccagaaca acaagaagaa aacgaagaga atcctcccga caacaccaag gaagatcctc 120
ggcctcaacg agatacccac gacgtcagcg ccaacggcga agccacagaa gaagaccagg 180
agccagaaca accacaacca caacaagaac aaccccgccc ccgcagaaga aagcctcaac 240
cgcagagata ccgccccgac tcagacacag aaagcatccc ccgcccggaa atggacaaca 300
acaccgcaat ggagaagccc cgccgccgtc gccagcgtcc ccagatgcaa caacaacaac 360
aacagcaaca agacggcggc ccattgggcg ggctcggtgg tgtga 405

<210> 3552
<211> 828
<212> DNA
<213> A.fumigatus

<400> 3552
tctcttttc tttcttccac catgtccgat caggaaaaca acagccgtcc ctcaagtccg 60
actccgaacc caacccagac agaagagggt gcccctccaa cacctaagac agatacccag 120
accccgacaa agaagcctcc aaagctagga aagaagaaac agcagcagca gcaggagtct 180
aagcctcagc ctgaacctga accagcagag ccagaacaac aagaagaaaa cgaagagaat 240
cctcccgaca acaccaagga agatcctcgg cctcaacgag atacccacga cgtcagcgcc 300
aacggcgaag ccacagaaga agaccaggag ccagaacaac cacaaccaca acaagaacaa 360
ccccgccccc gcagaagaaa gcctcaaccg cagagatacc gccccgactc agacacagaa 420
agcatccccc gcccggaaat ggacaacaac accgcaatgg agaagccccg ccgccgtcgc 480
cagcgtcccc agatgcaaca acaacaacaa cagcaacaag acggcggccc attgggcggg 540
ctcggtggtg tgaaccaggt cggtgatctc gtccagaata ccgcaggcaa cgcggtgaac 600
ggtgtgacgg ggtcagcggg caaagccgtg ggcgggctgc tgggtggaaa caaaggggag 660
aaagaggatg ggggccgaga cgagcagttg cggctaacgc tggatctgaa tctggatatt 720
gaggtgcagc tcaaggcgaa gattcatggt gatttgacgc tgggattatt gtatgtcttt 780
tttcgccgtt tcccttaccc tgatggtatg ataaagtgtg ggtgctaa 828

<210> 3553
<211> 1026
<212> DNA
<213> A.fumigatus

<400> 3553
cacctcaggc aaaacactgt tgaccgcctt agccctttc tggtcgctct ccgcagttgg 60
gaaaatctca aaagaatgct gcagggacga gactgttttg agtatcattc aatcatcggt 120
caaacgatac tcaccatgtc gcctcgactg tcaaggaagc tgacgcagct tcctactctc 180
ttcctgggtc ttccatcgct cactatcact ggcaatgtgt ctgtacgatc tttcggcata 240
aaatcattaa atccacctaa accctctcgg ttcaatatcg gtcctgaatt acctgtgctt 300
aagtcgactt ccacggctgc tttggaacga aaggcgaata ctctacctct tcggaccggt 360
gccatcgcta tcaagaaagg aatgaccgct gtatacgatg ccgaaactgg gaaacgcatc 420
gcttgcactg ttctgcaact cgatcgagta caagtcgtct cacacaagac aagacagacg 480
catgggtata atgccgttca ggtcggtgcc ggttggaagc atcccagcaa tgtgacaaag 540
tcactcttag gccatttttc gactaacggt gtctcgccaa agagacacgt ttacgagttc 600
cgtgtcaaag atgagagtgg cctcttacct gtcggccaaa caatcaatgc agactggttt 660
caagaatgtc agtatgtcga tgcccggtct tactctaagg gtaaggggtt tgccggtgtg 720
atgaagcgac acggcttcca ccgacaggac cgcagtcacg gtgtcagttt aacacatcgg 780
tcacttggtt cagccgggcc tattcaaggt ggtggttcca gagtgtatcc cggaaagaaa 840
atggcgggaa acatgggtaa tgagcaaaat accgtgcaga acttgaaagt tctcaaggtt 900
gatgcagaca acagtattgt cgttgtcaac ggtatgtttt ccgctaccca acgttcaata 960
cagcattgta aatggttgat attcatcttg ttgcacgttc cgtcagcggg cctaaaggat 1020
gcgtag 1026

<210> 3554
<211> 210
<212> DNA

<213> A.fumigatus

<400> 3554
cttttgctg actcggtaag ttattcggtc aattccaact atgggaccgc tgacgacctg 60
aaagccctgg cgtcagctct tcatgacagg ggcatgtatc tcatggtcga tgttgttgcc 120
aatcacatgg ttcgctggat cagcccattg atgtgctgct tgctgattga accagggata 180
tgccggtgca ggcgattcgg tcgactatag 210

<210> 3555
<211> 321
<212> DNA
<213> A.fumigatus

<400> 3555
ttgaaccagg gatatgccgg tgcaggcgat tcggtcgact atagtgtctt caacccctc 60
aactcccaga cctccttcca cccattgtgc ttcatcagca attacgataa tcagacagac 120
gtggaaaatt gctggttggg ggacaattcg gttcctttac ccgatcttga tactacaaat 180
ccggatgttc aaaagatttg gtacaattgg gtgaactctt tagtgtctaa ttattccagt 240
aaggacggac tcttggtatc tgcacaaaaa caagaattga ctgatatgct acagtcgacg 300
gcctacgaat tgacactgtg a 321

<210> 3556
<211> 480
<212> DNA
<213> A.fumigatus

<400> 3556
atccccgctc gcaggtatac caaggacatg gccctcgcta aaaacgccgc agcattcatc 60
atcctctccg atggaatccc aatcatctac gccggccagg agcaacatta cagcggcggc 120
gcggatcccg caaaccgtga ggcactctgg ctatccggct actcgacaac gagtgaccta 180
tacaagctca tcgcgacagc aaacgccatc cggagtcacg ccctaagcaa tgacccggga 240
tccgtgactt ataacgtacg acgctctcac tcccggaaag aacatacgat caagcagggc 300
tactcaaccc caataaatac cccatctaac aaatatacct ccaccatctc cattgcgaaa 360
aagccccaac ggaccccaaa tattcaccgt cctcccgaaa ctcggtggct cctggaaacc 420
tcttacacgc cctcattggg gttgaacacg gctattaagg gccgaacaca actgaaatga 480

<210> 3557
<211> 711
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (675)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3557
gtctctcaga cactggacac tccgccgcgc cttaccccga cagaccaggg tccggttccc 60
ggccggttta tccacagggt tactcaatgg ccgacccacc ccccagtttg gcttttggga 120
tcaaccccaa tatccgtgcg aatgcgccca actacaaccg gggccgcgtc ttacggccca 180
ggccttcaga attatcgtaa cccaggcccc ggggtaccac catcggttgg accgatgagt 240
ccgacaggtg tgcatagccc atcgggaaca ccgaaactcg atatcggtta ctcagcgcca 300
cttgatcagc ctcctaacac tgatgctcgg agacgccctc aacggctcga tggtgcaccc 360
ccggaccgga agcctgtgcg aactgctgcc tcccctcact cccaggcaag ctcgatggga 420
tcgccccggc cgcaagcctc accttctgct gcgtcgttcc cccagtcgtc tggaacgtca 480
actcccaacc cctccggaac ccccgcgagc gcagcaagcc aaaagcccac aacacaacct 540

tccaaaccct ccgcaggggg tctgcccggc aagggtccaa agacattcga agaaatggga 600
gtccctactg cccagaagga tagtgattgc gtaagttttt catttcttcc ggatcgttgc 660
aacgaaccta acctntgcct tatcataaca gccgggatgg aaggtatgcg t 711

<210> 3558
<211> 507
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3558
ccanatgtac ccccgaccga cgagcaaaga gaagccagtt tggagcgagc ccgaatcgct 60
gttctgtcgt ccaacgaccc ggagatgcag ttggcctggg ctcaggacgc tctcgcctac 120
gttgaggtcg cggtgcaaaa cgaggctcgt ctctccttga ttcagcctcc caggccgcag 180
actcctcccg tggagcgtca gttgaagctc gatgcgatga acattgtgaa cttcttggcg 240
gatcaatacc accccaaggc cgatttcatc agaggcatgt ggctagagtt cgggaaattc 300
ggacatcgcg tggacaagaa ggcagctttt cgcgcctata cgagagctgc ggacagggga 360
tatgctcggg cggagtatcg tatcggaatg cagtttgaga gttctggaga accggagaag 420
gctatcaaac actacgaaaa gggagtcgcc cttgctgact ccgcttctta ctacgtatgt 480
tcaggacagc ttttccgtca caaatga 507

<210> 3559
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3559
taccacggtc ggcagcgttt aggcatgatg atcctccttg gccagcatgg tcagcggcag 60
gattaccata tggggttgga ttatatcagc cttgctgcgc aatcttgcga cgagaatgcg 120
ccccagggtg cctatgtacg tgactttctt ctcattcact ctcttaacgc tctgagtctg 180
acatga 186

<210> 3560
<211> 837
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (615),(616)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3560
catgacgttc gacaggttta tggcatgctc ttggcacggg aactcccgca ggtcaatgta 60
ccagaaagct acctcccccc ggatcttaat gctgctcgtg tcaacattga aaaggcagcc 120
tatcacggat ttgccaaagc tcaggttaag atgggcgccg cttatgaact tggtcaactc 180
ggctgcgact tcaaccctgc actatcctta cactacaacg cgctggctgc gcgtcaaggg 240
gagccggaag cggagatggc gattagcaaa tggtttctct gcggtcatga aggcgttttc 300
gagaagaacg acgagttggc cttcaaattt gctcatcgcg ctgcgctcag tggattcccg 360
acagccgaat ttgcgcttgg atatttttac gaggttggta tttacgtcga tgtcgacctt 420
aaggaagcca gaagctggta cgccaaggca gcagcgaatg ggaataaaga cgctacaagc 480
cggattgaca gcatctcacg gtcgaagacc ctgtcgagga aggatcacga aaatgtcgcg 540

atcgcccgca tcaagtcgcg ctacgggtcg caccagcgtg agatttctct agaatcaacg 600
caagagaacc tcgannatgc cgatccatcc aggatgagtc tctcagacac tggacactcc 660
gccgcgcctt accccgacag accagggtcc ggttcccggc cggtttatcc acagggttac 720
tcaatggccg acccaccccc cagtttggct tttgggatca accccaatat ccgtgcgaat 780
gcgcccaact acaaccgggg ccgcgtctta cggcccaggc cttcagaatt atcgtaa 837

<210> 3561
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3561
tttgctcaaa ccttggttct aatacagtct ggctcgacca taagatatcg aagctcatcc 60
ttgtcgcatc taaggtttac caaggattgt gtgaaatggc ctaatatggt tatcggttcc 120
attcgcctgg cactataccc aaatgttaac tgtactttcc tcccaataaa atcccggcag 180
tacaactag 189

<210> 3562
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (13)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3562
gaagataggt gtnagagagg tgttccttct aaggcatgta ttaagatcag gcacgtagac 60
atctggaatt tattcctatg cctagatagt aagattatta actatcttac tactattaac 120
aggctagata ctatgatctt taaaggcctt atagataatt tattagttaa aggctttctc 180
ctgtataggt ctaattacct ataa 204

<210> 3563
<211> 1167
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1086),(1136)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3563
gtccctaaag atacttatgc cggatggttt ctgatgtgca cgatgcagga agtcaaaacc 60
gacgcaggcc agaacctgtc cgaatacaaa gagaaccagg atgtgaccgc accacccgat 120
cccatcgctg agggtaccac gtccgacgtg ccgatccacg gcgagaaaac aaatattctg 180
ttccacccta caccaactat ttcctacaag cccatgtttg accagttgga aaagcgcgcg 240
accggagtct gcttggggtc tctttgttgg tgtactcttc ctcggccatg tttttggtgg 300
ctcgctatgg gggtctcata cccttggcct gtttgcacta caactgggat ctggttatgg 360
atgaaagagg tcatccggag tggacgtgaa atggaatgga gcagtgagca gctacgaggg 420
cagacagtaa gtttcaccac tctgtacgtg tccaaggaac atttactaag tcaagccaac 480
caggctacgg ccaacttgtt gccggaatct gtcgaatgga tgaatacttt ccttggtgtc 540
gtctggggcc tgctgaaccc cgatatgttg gcacccatcg ctgatactat cgaggacatc 600
atgcaagcgt ctgcgccaag tgtcgtggag aacgttcgta tcgctgaaat cgaccaaggc 660
aacaacccta tacgtattct gagcatgcgg gctcttccag acgagcacgt gcagcaactg 720

aaagacaaca tctgcgaaga gaataagaaa aacaaggatc ctcaggaggc agcagctgct 780
gaagagggtg gcagctacta caacctcgag gcttcttttg cataccatgc aaagccgagt 840
ggccaaagtg cttcctccaa agcacgtaac atgcatatgc aggttgtatt cttcctgggg 900
attcaaggtc tattcggagt gcctttcccg gtgtttgtag aactgattga aatggttgga 960
actatacgcc tgagactaca gatgatgcca gaagcccctt ttatgaagga gattacctac 1020
agtcttgttg gtatcccgca tatcaaagcc ggctgcatgc cgatggtgag acatggtatc 1080
aacgtnctca atctacccgt gatctccaac tttgtcaact atgcccatcg cactgnctgc 1140
aggctttcgc agcacccaaa tcaatga 1167

<210> 3564
<211> 1680
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1367),(1511),(1585)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3564
aaacgcttat ccggcgactc cctcccaatg gcggggattc aaaagcagct gagaaacatg 60
cggcgaaaca aaaaggcgga agaggacaaa atcaaagcaa tggccgctga aatggagtca 120
gaagaggagc ggaagctcaa ggctaaggga tcaatgacgc ctaaagcatc tgcagggtct 180
caagctccct cggcgactca aggcgccaag gttgatgacc agctatggac tacgaaatac 240
gccccgacgg ctattaatat gatatgcggc aacaagggcg ctgttgagaa gctccaaact 300
tggcttcata attggcacaa gaatgccaag ttcaactttt caaggcctgg aaaagatggg 360
tctggggtct atcgcgccgt gatgatccat ggacctcctg ggatagggaa aacgacggca 420
gcgcatctgg tagctaaact tgaaggctat gatgtcgtcg aaacgaacgc gagtgatacg 480
aggagtaaga agctcgtgga aagcaatctt cttgatatct tagacacaac ctccctgcaa 540
ggttattttt ccggcgaagg caagaagatc gagagtacga aaaagaacct agttctcata 600
atggatgaag ttgacggaat gtccgctgga gatcgaggtg gtgtgggagc tttagtttcc 660
ctggcgaaga aaacccacat acccttgatt ctaatctgca acgagcgaag gttgccgaaa 720
atgaagccct tcgatcacgt cacttatgag ttgcctttca ggcgcccgac agctgaacaa 780
atcagagcta gactttcgac tatctgcttc agggaaggct taaagattcc acccccagta 840
ttggatagtc tcattgaagg gaccaacgcc gatattcggc aagtcatcaa catgctttca 900
acagtcaaat tagaccagca gcaacttgac tttgacacag gaaaggaaat gtccaaagca 960
tggcagaagc atgtgatcct gaagccgtgg gacattgtca gcaagatctt aaatgctcag 1020
accttctctc ccaactctca aaccactctg ggtgacaaaa tcgagctgta tttcaatgat 1080
cacgagttca gttatctgat gcttcaagag aactacctga gaaccagacc agcgctagct 1140
ggcaattacc agggcaagga acagaagctg aaactgcttg aattggcgga caatgctgcc 1200
tctagtatca gtgatggaga tctcgtcgat aggatgattc atggaacgca gcagcaatgg 1260
agccttatgc cgactcatgc tgttttcagt tttgttcgcc ccgcaagctt catttacggc 1320
aatatggtgg agcggcccgg cttcaccagc tggctggggc agaatantaa acaaggtatg 1380
tctccgtggt gcagtatttg cgtttccaac attaatatgg catgtgcagg gaaactctgg 1440
cgttatgtca aggaaattca gggccacatg cgtctccgtg cttcgggtga ccgcgacgag 1500
atcagacagc natacatccc gctcctctgg aacaaattgg ttcgcaaatt gatggatgaa 1560
ggcaaagaaa gcgtcgaaga tgtcnttgga cttcatggga cagttatttc ctcacgcgcc 1620
gatgactggg atgctctcgt cgagcttggc ctgggtccta tggaagaatt caacgtttag 1680

<210> 3565
<211> 672
<212> DNA
<213> A.fumigatus

<400> 3565
agacgtatgc gctggggtcg gtgggacgtc gtcctgttcc tgtccggcat gctcatggct 60

gaagccgatc tgatcaacgg tacatgggag cgcccatccg tatacgaaaa gcctgtgcat 120
cgcggccggt ccaccctctc ccgcctctca agccgcaaat tctggattgc cctcttcatc 180
ttcggcctct atctcggctc cgctccgaac acaggctaca aatggacccc attctacatg 240
tggacgtgga aaatcacccc caagacctac cccgaacccc accgctttcc gcagacgctc 300
ggtgcagtcc tgattgtctt cagcataaat cactccaagg atatccagaa acttttgtt 360
aaccgactgt cgcaatatct aggcaaaatc tcctttgcct tttacatcgt acacggacct 420
atcctgcatt ccctgggcta ctcgcttatg ccgaatatct ggaaaatcac cggcaagcag 480
accgatttcc agtactgcct gggttttctc atcgggtggc tcatttgctt gcccgtttcc 540
ctctgggcgg gtgacgtctt ctggcgcgca gtcgacatcc ctagcgtcaa attcgcccgg 600
tgggtggagg ataaagtgct tgtcaagatg accgggcagc aaaattcaac gccgaacgca 660
catattcgct ag 672

<210> 3566
<211> 249
<212> DNA
<213> A.fumigatus

<400> 3566
agacagcgag agattggagc gcagccgata tcaaaaccct tgcgacaaga gcaacaaggt 60
ctcacgtatg ctagccaaat cagtcgaaaa cagctgcacc gatttgaacc gtggccaagt 120
gattatacca ttaagcacgt gctacgcaac aaccgctctg gaatccttat tgccagtgag 180
ttcaagcccc ggcctcgtac cttcgttccc ggcgctgact gcttccaaag gtggccaccg 240
tggtggtga 249

<210> 3567
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3567
cagactgtcc aggccagcga gatcactgat gccaacccat ggctgtggat gactggctgg 60
gcaaactacc tccaggggat cagcgagcag aacttgctag actgtgtaga gacacctaat 120
aaagaaccca tggatgccac agagcagtgt gtgcaggtta tctgggtgac catggagcag 180
ctggcctgtt ag 192

<210> 3568
<211> 240
<212> DNA
<213> A.fumigatus

<400> 3568
ctcagtttta accatattaa taagcttaac ttccttaagg cctacccaaa ggcttataca 60
gcaatctttt tattagataa tatcaaaagt agcttctcag taactaggtt aatactatta 120
aatctagagc aagtactcag tcagcttaat atccagctta aaacccctat accaccaggc 180
agccaatcaa cagattctat cctaaaaaca ccttataatc tcaagcagtt gaagaagtag 240

<210> 3569
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (41),(42),(100),(207)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3569
cagggcaggc cccctagcac agcccccaat cccatggaac nntcagacga cgaccccaca 60
gacgaagcat gggctatgac cgatattaaa aagcatgccn aaagttttat gttgagctgc 120
ttgactaacg ccattgcaac cttgaataca agagtgcacc tgtgtgcgcc atggctttgc 180
ttggctaggg ggaacaccgc tggcggnacc cccagagtaa tcctt 225

<210> 3570
<211> 261
<212> DNA
<213> A.fumigatus

<400> 3570
aacatgatta tattactaaa tctagttatt cttgcgctgc ggacattgca attacttatg 60
gcctataata tgacagtcac tgcagcgcgg gggtgcctgt taagggtatt gttctgtatc 120
tactgcctgg atagctttgt tagcctgatt cctctgttaa ataaactcct ggccttccta 180
gatagagaat ccctctgtag cttctatctg cctcctagat tacttcctat tttgaagctg 240
cttctcatgt gcagcatgta g 261

<210> 3571
<211> 375
<212> DNA
<213> A.fumigatus

<400> 3571
actttagaat cggatcattt cgtttgcgtg agacaaaaac tcaatgaaga tgacaagccc 60
caagtcatta tcgtcaacct caaaaacaac aatgaaacta tcaagcggcc gatcaatgcg 120
gacagtgcga ttatgcactg gtccagaaac atcatcgccc tcagagctca gggtcgaaca 180
attcagatct tcgacctttc cgcaaagcag aagctcaagt ctgctgtcat gaatgaagat 240
gttgtctact ggaagtggtt cagtgaaacg agtctaggtt tggtcaccga cgcatcggtc 300
taccactggg acgtttttga tccaacccag aaccagcctc tcaaaatttt tgacagactt 360
ccaaacctga gtgta 375

<210> 3572
<211> 573
<212> DNA
<213> A.fumigatus

<400> 3572
ggggcggtag gttgccaagt tttcgagcgc cttccttggg atttttgggg tagaacaggc 60
cctggggacg tccgcggggt cctcaccacc gtcgccagcg gcctgctcta caccctcgac 120
ctggactccg gcgccaacgc ctggatcgga taccaggcca tggccggcat cgggatcggc 180
ctggccatcc aggtccccat gatggccagc caggcggtcg tccgcgtgga ggatctctcc 240
accgtttccg ccatcgtcct cttcttccaa tgcatgggtg gggcgatctt cgtgcaggcg 300
ggtcaggccg ccttcaccaa caagctggtc caggaggtgc agcgccactt gccgaacatc 360
agtgcggcgc gggtcacgtc gacgggcgcc acggagctgc aatccgagtt ccacggccat 420
gagctccagg tgattctcga ggcgtatgtg gctgggctga aggacgcctt tattgtggcg 480
attgtgttgg cggggattgc gaccttgttg tcttttggct cggggtggag gagtgtgaag 540
agcaagaagg aggagcccaa ggcgcagcct tga 573

<210> 3573
<211> 354
<212> DNA
<213> A.fumigatus

<400> 3573
tcttgtcgag ccgaactgcc tgatgtattc gaggcaaccc catcagttct gcaatcgcga 60

cgagccgccg tattgtcagc cacgccttct gtaagtttcc tagtccgata tgactacaga 120
atcagcatgt gttcatcccg cttgatcaaa tcagagatgc gaatctcaca gtcgcgcaaa 180
atgtacggcc attgcaagac cttctcccgt tgcaagcaat cgatcatggc acaagacagt 240
actctccatg gtatttatga tttggcgaca aaggtcagcc cgcttctggc attttctgag 300
ctgatcttca ctgttttcgc tctgttgcgg aagctgttgg gccatgatcg ctag 354

<210> 3574
<211> 1083
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (428)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3574
acgcggtact tccaccctgt cgtgaagatt ggctcgttgg gaatgcttat tatggactat 60
ctacaggtga gccggcaggc ctcggaggga agacgtgcag ctcgattgtc ccgcggtctg 120
agttatttcg taaagggcag ttctagcttt gtcgactctc agccctcgtg ttcaggcagt 180
tctgccccta cgctcagcac tcccgcgtcg tccgctatga gagccaacca cctctcggcc 240
gggtcctctc acagtttcga acttccatcc aaacgctctc acagcatcga cgcgcgctcc 300
agcagctcgg tatcggactc aaaagccgac aatggcgacc agaacaattc ttccgggcct 360
gacacaccac tcccggattg gtgggcggga agcagaagga aggggttgaa gttagacgaa 420
tcacatanca gctcctgggc gtatcggaga gccgccaatc ttctccgcga aagtctcgag 480
ttggatgccg atggtggtgt catcttcttg gaggtcacta acagccacat gctggatttc 540
gagaccggaa gtgattgctc gggcgagaac ggacccgcgg ctcctgtatt ggctgtctct 600
accagagacg aacctttttgc cccatggccc ggctcgacag tgctgtaccc tgctgcaaat 660
ctcgacagcg ggtttctaca ccagctgtta cgtcgataca ccaagggcaa gctttggtcc 720
tttcatcgag atgggattct ctctagctcc gatgacgaaa aaccgaatgg aaatcgcagc 780
atgaaacccg ccgagccgcc tcggggcagt ggcaagaagt ggaaacagac ggaaaacgcc 840
atgttgaatc tcttctttcc gaacgcgact caggtaatgt tcgttccttt gtggaacgcc 900
gccaattccc agtggtttgc gggttgcttc tgttggaaca cagtagagac gcgtgtcttc 960
agcccttctg tcgagctgag ttcggttctg ggcttcggat catccatcat ggcagagtgc 1020
aaccgggtcc agtccctgat ctccgatcgg cagaagggcg attttattgg gagtatctcg 1080
taa 1083

<210> 3575
<211> 297
<212> DNA
<213> A.fumigatus

<400> 3575
gtattagaga cggagaaagc gagcttggtt catcgaccgg tcattgacat cattgggtat 60
agacatgaac ttcgcagtcc tctccacggc attttggcgg ccaccgagtt tttacactcc 120
acggaccttg atgaattcca actgtctctg cttgagacga tcaacgcgtg cggtcggaca 180
ctgttggata ctatgaatca agtcctagac ttcagcaaga ttatctccct tgagaggacc 240
tggcgtcagc tcaagagaca tactcttcac ctcggtactg gacggggccg cgcttaa 297

<210> 3576
<211> 963
<212> DNA
<213> A.fumigatus

<400> 3576
cgctgggaca aatgttggag ggagccaaac ggttatggtt tggcaaacct gcccgaggga 60

aggagggttc cgggcttaga agaactcatt attcaactag aggccaagcc agggggtttt 120
tcgttcacgg aacaaccggc cacaaagttc acgagcggac taacaaaaag gaactgggag 180
gaggctgggg atcccttggc aacaacgggt atgtctttta agcggaagct tgccggagac 240
tgtgccagag tagaaggttg tgtacaccgg tccagggctg acagaagaaa acaggaagaa 300
atcttttcct cctcgtacag cgcatccatt tatatttccc gtatcctcaa actgccagaa 360
aataagcgaa aggtcttcgt catcggcgag acgggcattg agcaagagct tcaaacggag 420
aacgtcccat tcattggagg cacagatcct gcgtatcgtc gcgaagtgag acctgatgac 480
tacaaactta ttgcagccgg cgacccatcg ttacttgacc ccgaggtcgg agttgttctc 540
gtaggactgg acttccatct gaactacctg aagctggctc tagcatatca ctacatcaaa 600
cgtggtgcgg ttttccttgc gaccaatatc gattccacac ttccgaactc aggtgcactg 660
ttccccggcg cgggttccat gagtgcgccg cttatcatga tgctgggtga ggagcctgtc 720
tcactaggca agcctaacca ggcaatgatg gacgcgattg agggaaaatt caagttcgat 780
agatctcgga cgtgcatggt gggagaccgc gccaacactg acatccggtt tgggttagaa 840
ggcaagctcg gaggcacttt gggtgtcctc actggagtca gctcaaagga tgacttccta 900
actgggccta ttagaccttc ggtgtaccta gacaaacttt ccgacctttt ggaagcgaag 960
tga 963

<210> 3577
<211> 600
<212> DNA
<213> A.fumigatus

<400> 3577
tccgaaaaaa gacgggttcg ccccctcatc tgtaaagttc ccgtgtccca aaaccattcc 60
aggccgggga agaattgtgg gtttcttccc gccggtggga cctccacaag ttcaacggaa 120
cactttgcaa gagaagaaac cgccgccatg gcttcggttg cctggtcagc gatgcgacag 180
ccgctccctc tgctcctgca gacctttcag gggctcacca ccaagaacga ggatttttgg 240
ttcagggcat gtccatattt tggccgagtc tgctatgctg caggtaccgt gctgttccaa 300
gagggcgact tacctgacgg gttttacctc ctcgagtcgg gcatgctccg cgctgaatat 360
gagctacctc aaggccgtta tttcgaactg atcgtcgggg gacggccgtg tggcgagctg 420
ccgtttttca gcgaaacccg acggactgcg acggtcaagg cggaacagga ctgcgtgacc 480
tggtgtctga atgccgataa atggaagcag ttgagggaag aagagcccga gatcgctcag 540
gaattgttga cagtgagctt gaaattgacg agtgagagaa tggacagcat cacatcgtaa 600

<210> 3578
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3578
gcaacaatgt tcgcaacatc ccgcagtcag gtctctggac ctaaccttgg taaattgatg 60
aaagcaacca agatggccca cctttgtgaa gcattgtctg gctgctgcat gaatacgaat 120
atcatcaaga ccgttctttt acccgatatg tacttgtgta tttattactc ttcaattgct 180
agctccgaac ccgtatatgc agccaagcca ggctag 216

<210> 3579
<211> 873
<212> DNA
<213> A.fumigatus

<400> 3579
ctgcgggatg ttgcgaacat tgttgcctat gtcagcttgt ctctcttagt gaatgtagag 60
tgccctgtca ccatggagtc aatccccctc tccccgttcg acctacaagg ttccttctcc 120
aacatcccct acgccttctt ctacgagaac acgcagtgtg aaaatgactt tatgcccttt 180
gacttcctca agggctcgtt gtgggctagt cttcagcgat tccccattct gacaggccgc 240
ctgcgagcca ggagcaccgg gcacattgtc gtcgaggtcg acgcaggtaa tcctaaccag 300

cccgatatcc gggagacgct ctgcgactct gtccactggt cgcagctcaa ggagtctagt 360
tttgcctggg atgcgtggcc ggcgggtgtc gcgaccgtgg gacctgtagc cactgctgcg 420
gcggatgggg agatcaaact gctgaatatc catgtaatgc gactggcaca gaacagtggg 480
gtcattcttt ttatcaacat cccccattac gtggtggacg gggtggggta ttttgctttt 540
atcaatcact gggcggagac catgcggatg cagcagcagc agcaggagca ggagaatgag 600
gctagaagta gattcagctt tgatcgtggc atcatccaga ggtacttacc tacggagcga 660
gctccgttgg atcccctcac ggcgtcgatc tacggtcagc ggaacctgct cgtcgattgg 720
cttgcatggc tctccccgac gacgctggga ggtctactct ccaagaccgc cgccatggca 780
cggggtgagg ctcatctatt tcggattcct cgagcctctc tcgaccaggg tcttcaccac 840
ggggctgaaa ggatacacgg tggtctattg aaa 873

<210> 3580
<211> 267
<212> DNA
<213> A.fumigatus

<400> 3580
acggttcgta tcgatcaaac cttaatgcct cccctctggc tgcgagactt ttcaggattg 60
gacagctact acttcataca atgccactac cacgccgagc tgaatagcag acagccacct 120
aaggcaaccg tgccagtgtc tgcctctcag cacttctaca tcatggccca gagggcactg 180
atacgacagt caaagaagtc gtggctccct ggactgctgc gaacgcacag agccatcggt 240
caaatgctca actacggtta taactaa 267

<210> 3581
<211> 846
<212> DNA
<213> A.fumigatus

<400> 3581
ctcattgttg cttgcccaaa ctacccccgc aaagcacagc gaagcccaat ttttgattcc 60
cgatggaagg gtttggcagt gagatcgact ttccttcaga cggccccgga cccttccgcg 120
tacgacgttt ttcggtgtcc atttcctcgc tgcaatgcta gataccggcg caaggagcat 180
ctgaatcgcc atgaacgatc gaaacacatc aatcagcagg cttttgtctg ttccagatgc 240
ggtcgtaagt ttcaacgaag gtatctacat gcttacgctc accctcttat cacaaccaac 300
cccctaacgc tagacgtcaa aatcagtgat accctacgac gtcatgtaca gaagcagcac 360
aaaataacag agcctctaaa tcgcgcgcgc cgagcatgtg cgggttgcca ggcaggcaag 420
tctcggtgtg aaggggggcgt gccatgcgaa gagtgtgttc gtcgcaacat ccactgttct 480
ctccaagacc gtcctagtat tgcagaagat caacaaaccc gatcgtcgac cgcaccttcg 540
tcatctctac accgtgaaca ttcacagtta tattgggata agacgaagaa gtgggttgat 600
cgatatttcg acatcttcca tcggcggtgg ccgttcatcc atcgaggatc attcaatgtg 660
cgccgggaga ccccgttgct tctccagtca atgatagtta taggcatgtg gacctcaggg 720
gaacagtctg cacagtctgc ggcagtcgag ctttatgatc aacttgactc cgctattcaa 780
gatcaaaggg tatgtttgga acaccaatcc atgatgtttc tgatttactc atgtagtgaa 840
tcatag 846

<210> 3582
<211> 264
<212> DNA
<213> A.fumigatus

<400> 3582
ttagtaataa tggcacatag gagtacaaga ctcatgattc ctagaatgct gactgaggtg 60
aagactgctg ctggccgccc accggcatcc caccaaacaa actacgacat ctataatctg 120
tacatgaatg caccgttccc ggtaaccttt gctagccgtt actgcgagaa aagtcctgcc 180
ttgataaacc actgtgttgc tcttcaaacc ctatgtgcca ttatctcaat ctcggatgta 240
agccagattt ccctatcagc ctag 264

<210> 3583
<211> 990
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (9)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3583
attcattcnt ataccctgtg ggattacttt gcgagcatct tcaccaacaa tgcaaaaaaa 60
tggcgtgact tgggtaagca gctggagctt catgcaacgc tcttcttctg gtggttgggc 120
gtggaaaatt cgttcttgcc cactatgaag aatcaccacg ttgatggaaa ttccgccacc 180
cgccgttggg aaaactctgt aaacaagatc atcatctcca ttttcgtctg gaccatcttg 240
aaccttatcg aaaagataat cattcaactc atcgctatca gcttccactt gcgtacctat 300
gctgatcgga ttgaaatcaa taagttccag attggcagtc tcaccaagct atatgccttt 360
tcaaaagcaa aaatcgaggc tgatgatgac gaattcgagg agaaaaatga tcagagtggc 420
agcggcacca agacaccgtt gcgcgttccc atgcaatatg ccggaaaggc gcagcgtatt 480
gccaagggcg ccctgaacaa agtcacggat gtggcgggtg cagtcgctgc tgatttcacc 540
ggccgcaagg ctacaagcag cagccacccc taccaggttg ttttgaccct gctgcgcacc 600
actaccggct gtcaggttct ggcaaggcgg ctctaccgca cttttgtgcg agatgggttt 660
gaaaccgtgt tttccgggga tttgaaagag gcattcgaca acaacgagga agctgaggcc 720
gcattcacca tgttcgacaa ggatatgaat ggcgatatct ccatggaaga gctagaggca 780
gtctgtgtgg agatcggacg ggagcgtaaa tcgatcactg cctctctgaa agatctcgat 840
tcggtcgtat caagacttga caatgtgctg gagttcttcg tcatcgtcat cgcgctcatt 900
gtcttcttgt cgctgatctc cacatcggcc gctggtgttc ttacctctgc aggctccagt 960
atccttgcat tgtcctggtt gttctccgcc 990

<210> 3584
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3584
tgggacttga ccatgactaa cgtcgtacag acaacggtta atctgaagaa ggtggaatta 60
ccggtgaagc agatcgtatc aggcaagaaa atcaaaccgt cgggtactct gctcaatccg 120
cagagcttag attactatta ccagtttgcg gaggttgaaa aactggtcaa tcccaggagc 180
aagttgtag 189

<210> 3585
<211> 210
<212> DNA
<213> A.fumigatus

<400> 3585
cactaccatc cgaaggatac gatctcggcg gcgatgaaga ccaccatgct taccggtgca 60
gtgggtcttt ttgcgtcagc cgtccagaac accctcacta ggaagaacgt tggaccctgg 120
ggtgtcttcg tgcgaagcgg cgggacaatc ggtgttttcg gtacggatgc acatctaata 180
gatcaattgg tctacggaat ctttttctga 210

<210> 3586
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3586
atcaattggt ctacggaatc tttttctgac agttgctctc cagccgcaat gggtggtacc 60
tacgagtttg tgaagaacgc ctcggccaac ctgcgggaga aggacgacca ctacaacgta 120
gcccttggcg gtttcttctc tggagctatt ctgggtcttc gaggtctgtt atattttcta 180
ggaatacgca catacggcaa ttgctga 207

<210> 3587
<211> 369
<212> DNA
<213> A.fumigatus

<400> 3587
ttttgggcat tagctcggac attccccgcc cttctgggtt acggggctgc tctggcgacg 60
gccatgggcg ccttcgagtt cactggcgga accctgtggg gtaaaaaggc acaaagcgat 120
ctagatgaat ttgaccgccg tacacaggtc agaaaagcgt acagaactcc ggcggagcag 180
acatttgccg agttgggtga gggacgaggt gtgttattat ctaaactctc aggacatcgt 240
agttatggtg gctttactaa attatttgca ctaggtatct acggccccgg ttacgcagag 300
aggcgcgcag agagactcaa ggagacatac ggcattgagg ttcccacatc cgccgcaccc 360
gcatcataa 369

<210> 3588
<211> 402
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (243)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3588
agagcacggt tgacacctag tcttttgtgc ctttccccct tcgaacgacc caccctcccc 60
cccgcccccc ccacacccca ctccgcccca ctcgaccccc cacagctccc caccctcccc 120
cccccccccc cctcccccca ccggccgccc cccccccccc cccccctcca cccccccgcc 180
cccccccccc cccctgctcg cccccccccc cccccctcca cgcccccccc cccccccccc 240
ctntatttcc ctccgaaaac tgtcaaaggt tatccccccc gcccccccca cccccccccc 300
cccccccccc cccccccccc cctcccccca ccccgcccc cccccccccc cccccctcca 360
cccccccccc cccccccccc cccccccccc cccccccccc cc 402

<210> 3589
<211> 510
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (160)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3589
gggggggggg gggggggggg gggggggggg gggggggggg ggggagggga gggggggggg 60
gggggcggg gggggggga gggggggggg gggggggggg gggggggggg gggggggggg 120
gcgggggga taacctttga cagttttcgg agggaaatan agggggggga gggggggggg 180
cgggagggga ggtgggggga ggcgagcagg gggggggggg ggggcggggg ggggagggga 240
gggggggggg gggggcggcc gggggggga gggggggggg gggggagggg tggggagctg 300

tgggggtcg agtggggcgg agggggtgt gggggggcg ggggggaggg tgggtcgttc 360
gaaaggggaa aggcacaaaa gactaggtgt caaccgtgct cttcactggc atgtggctgt 420
tgtaagaaca tcgtctacat caggcacaag aatgacagac aggttaggaa gttaaaggcc 480
acacatattt taagctcgag agtcatttaa 510

<210> 3590
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3590
cactccccca gcggctcaaa tctgtcgatc tggatctccg atgccagcaa gccgcctgac 60
cctcatgacg ccgatggaga gatggcagaa ttcacccccg gaggaggaag cagttccgga 120
gtcagccatc ttgaatgcca tatcctcttg ggaggtagca ccgcgttcag aaaacgaaga 180
cgccatgttt ga 192

<210> 3591
<211> 969
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (956)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3591
ggagaccaag cagaagcgtc ggcaccagac gtcaactgtg tagacaggca gaaagagtcc 60
aagcagttcg tcagaagagg cgtccggata ttgaaggagt ggtttcgcga ccaccgcgat 120
ttcccgtatc cctccgaaga tgagaaagcg cgcttggttc gtgagactgg attttcacga 180
aagcgcatgt caacatggtt tgccaatgca cgccgccgcc agaaggagag atttgacact 240
cccccagcgg ctcaaatctg tcgatctgga tctccgatgc cagcaagccg cctgaccctc 300
atgacgccga tggagagatg gcagaattca cccccggagg aggaagcagt tccggagtca 360
gccatcttga atgccatatc ctcttgggag gtagcaccgc gttcagaaaa cgaagacgcc 420
atgtttgatt cgttcctgaa tctcgacgag acatcgtcgc atctcggttc ttctctctct 480
agcatgggaa gtaggcgatc agagagctcg acaagcgtct cctccgcatg gagccaccac 540
tccggcgaca gctcactacc gttcccgctt catcaccccc gtccgcgggt ccggagaaga 600
actcggccta gaggcccaat gaacgaaggg caataccaat gtacgttctg cacacagtct 660
ttcaagaaga agcacgattg gctccgacat gagaagagtg ttcacctcca actcgacgcc 720
tggatctgca ctccagatct caacgacctc cagcccggca acttaccatc ggggtgtcga 780
ttctgcgatc atagggcgtc gtcgatagat cactggaatg accacgagtt cgaggtatgc 840
gcgcagaagc ccattgcaga tcgttctttc agtcggaagg actatctttg gcagcacttg 900
cgcaagtttc atggatgtac caaactgccc attgagaatc tggatcagtg gcgtantgcc 960
aggagcgac 969

<210> 3592
<211> 426
<212> DNA
<213> A.fumigatus

<400> 3592
aaccatggct atccccatgc ctccatctct gcttcggaaa catcccagag gactttcttt 60
atgcttgcaa tggcagccag cgctgaggag accaaccgtc aatccaacgc gggtcgcaga 120
tccgtgatct cgccaagcga ggcaccaccg gaggctgaac aatccgatgt ttaccagaca 180
ccgcctcctg ggctgaagga atggctcttc attctcattt tatgctcaac gcagcttttc 240
gttcaaggcg ccttcggata catcctcatt cccttgcata tcgtggggca aaccttcggt 300

cagggcccgt ccgaggccac ccggatgacc tggcatgtgg gcggttatag cttgacggtg 360
ggcacattta tcctgattgc gggaaagctc ggcgatctgt acggctccaa gcgcatcctt 420
gtcctg 426

<210> 3593
<211> 432
<212> DNA
<213> A.fumigatus

<400> 3593
gagagattta tctacgcagc tatcttcaag ctggttatcg gcaggcgggg aaagctgact 60
gtctggatca ttcctgaatt tgtcagttct tgcatgcaca aaataaatac accctacctc 120
ttcgccacaa cttcctcttt gctccgaaga ttgcatatga acatcccctc ttttctcctc 180
cgactgcgcc tgcgctgtct ccatcctact actccgcttc acatcccttc cactctccgt 240
agcatcatcc ccaacaaccc caccttctct catcgacact tccacagcac tcgtatcatc 300
atgtcggacg ttgtgcttca actgacagct cccaacgggc gcaagtactc gcagccgatt 360
ggtttattca tcaacaatga gtttgttccg tccaagtcag gcgagaagtt cgccacgatc 420
aatccttcgt aa 432

<210> 3594
<211> 219
<212> DNA
<213> A.fumigatus

<400> 3594
cgtccttcag gaaaaccata ctctgtcgca tttaatgatg acctcggaga agtcatcaac 60
accatcagat actgtgccgg atgggccgac aaggtccacg gacagacgat cagcaccact 120
tcagcgaaat tcgcttacac gctccgtcag ccgatcggtg tggtcggcca gatcatcccc 180
tggacgtcat cgccacgggg gcggaagaat ccgcgctaa 219

<210> 3595
<211> 246
<212> DNA
<213> A.fumigatus

<400> 3595
cggaacaggg acgagtctga aattgcttcc gtctatgctg cgggggagga ggatattgat 60
atcgccgtca aggcagcccg gaaggctctt aaggatcctt cctggaagat gttgccagct 120
accgatcggg ggaacctgat gttgaagctg gcggatctgg tagagcagca ccgggagact 180
ttggcgacca ttgagacttg ggataacggt gtgcttccac tttttggtct gcctgcctcg 240
ggttga 246

<210> 3596
<211> 927
<212> DNA
<213> A.fumigatus

<400> 3596
ctgactgctg gaggcttcct cgatcgcgga gaggacatcg aaggcacgat tgccgcgctg 60
cagcggctga tgacgtacag taccttgtg ggcatatacc ccgagtggca tccgcggctg 120
tttggcccac tgagtcgatt cagctggtct ggtgcagcgg ggagagcgta tattgtgcga 180
ttcgtccagg agaaaatcag aggcctctct gtgaaggctg atcccgggca agtggagcgg 240
ggccctctgg cgacgcagaa ctttgtcgag aagatgatgc tggctcgaga caaggatccg 300
gaaaaggtga cggattacca tgtgttcatg atggggttgt cgaacgtcat tgctggttca 360
gacacgactg ccatcagtct gtccgccatc atgtatcacc tcctgcgtta tcccgcggtc 420
atggagaaac ttcggcgcga gatcgacgcg tttgccacgg acggaaagtg cagtgacagc 480

gtcaccttca gggagagcca ggagatgcca tatttccagg ccgtgatcaa ggaggcactg 540
cgcatgcaca gtgccacggg cttgccgctg tggaaggtgg ttcccgacgg cggggccgag 600
atcaatggct atttctttcc ggctggcacg gtggtgggga tcaacacctg ggtggcccat 660
tacgatgaag aagtcttccc agatgcgacg actttccggc cagagcgatg gatcgaggcg 720
gaaagtaatc ccgagaaact caaagccatg accgagatgt acatgccaat tagtctcaac 780
cacttctctc gtataccgca tactgacgac ggtaattcgg ccttggggac taaggacgtg 840
ttctggaaaa cacttcttcc ttcctggaaa tttcgaaatt tgatcccccc aaatcgtccc 900
gagaaccttg aattccatta ccacgaa 927

<210> 3597
<211> 282
<212> DNA
<213> A.fumigatus

<400> 3597
tggatgatgg atgctgagcg gacggtagcg gaaacgcgca agcggttctc gagcctctac 60
tccatgacct cgctggtgca ttacgaggcg tttgtggatc ggtgtgcgga tctcttctgc 120
atgcggctgc gggagttcgc ggcccgtggc gaagagttca acctcggcca ttggttccag 180
tgctatgcgt ttgatgtgat cggcgatatt acctacgggc agcggtttgg tgagtggcat 240
acaagggtgc aatggcatgg gcgagtacgc gcgactgact ga 282

<210> 3598
<211> 573
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (213),(227),(234),(238),(261),(262)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3598
cgaattccaa caattggccg tgggggggcgg gggttggaat gttcaatttt cccaattttc 60
cacgacatat atattcccat gagggattac gggagtagga tcccagataa acaatcaaaa 120
ctccatttcc tttcattaac atcaacaaca aaaatgttct tcatcatcgt catcccgatg 180
gtcatcctcc tttacccttt cctgagcacg ctntacacaa cctccgncac ccgntccntc 240
cgccgaaccc caggcccttc nntcacccgc ctcacaaaac tctggtactt ctaccgcgtg 300
cgcgctggcc acttcgaaac agacaatatc gccctgcacc ggcgctacgg gcccgtcgtc 360
cgcatcgccc cagaccacta tagtatctcc gggagcgccg ccataaaaac cgtctacggg 420
acggggagca agttcaccaa gtccgcctgg tacgaggggt ggaagcaccc ggacccaaat 480
cagtggacgc tgttccctga ccggaacatt aagcggcacg gtatgcatca tcctcgttgt 540
tcccttggct cggatcactg ctgtgatgga tga 573

<210> 3599
<211> 435
<212> DNA
<213> A.fumigatus

<400> 3599
aacgttgtac ttccggccct gtcgtgtaga ctagtcatgc gcagctgtgg cctcagcggc 60
atgaaagcct acattcgcaa gaccatcgga ctcggcaata tctttgccga cctggtgcga 120
agtcgatcgg atctattcga gatcatcacc aaacctgcat tctgcttgac tgtcttccgg 180
atcaagagcc ctagccttca atcaaatgcc gagtcctcgg tgcctcggat tgacgacgct 240
tcaaacgcca taactaagga ggtctacgag ctcgtcaatt cgcggggaga gatcttcatc 300
acctcgtctg ttattgcagg cgtatatgcc atcagggtgg taagcgccaa cccggcagcc 360
gaggagaagt acctccgacg tgcgtttgaa attttggttc aaacagccga agaagtgctc 420

cagaagcagc agtaa 435

<210> 3600
<211> 348
<212> DNA
<213> A.fumigatus

<400> 3600
agctgccatc gtaaggacac caaatttttc gaagctcaac ctaactggag aaatgtggct 60
cacaactcca gtcgagtact agtgacagga gccactggct tcatcggggc ccatgtggta 120
gacagcctgt tggatcgagg cattaccgtg cgcggggcca cacggtcgtt gtccaagggg 180
gagcagatga gagctgctcg accggaccac gcttccaggc tcgagtttgt tcaaatcgag 240
gatttttcga aactgggggg gtttgaccat gtcatggagg gagttgacgc agtcattcac 300
gttgctaccg tatgtctatc gccatgccat tccacacaag atgattaa 348

<210> 3601
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3601
acatacggta gcaacgtgaa tgactgcgtc aactccctcc atgacatggt caaacccccc 60
cagtttcgaa aaatcctcga tttgaacaaa ctcgagcctg gaagcgtggt ccggtcgagc 120
agctctcatc tgctcccct tggacaacga ccgtgtggcc ccgcgcacgg taatgcctcg 180
atccaacagg ctgtctacca catgggcccc gatgaagcca gtggctcctg tcactag 237

<210> 3602
<211> 486
<212> DNA
<213> A.fumigatus

<400> 3602
gttcagcttg aagctcaaaa gacaccccat cgcaacccag aatgtccaac gcctccattc 60
gaatgcaatt tagctgtcga atttaccatg tcactccgca aaacgtcttg tcgagcatgt 120
gtggcggcca agcgtcggtg tgaccacagg gtgcccagtt gctctcgctg ttgcaagaga 180
tctattgcat gtcactatcc atatccgcct ccacaggcta agggagataa aactacacca 240
ctggatgact atgtagggtc cagtctccag ttggatccca cgctcttgag cgcatgtggt 300
ccttctctga cggactccat acaaacaacc atgatctccg accgaggaga tgacccaatg 360
tggttcccaa aaggaacccc gacttccaat caactctgga actttcctca agaaatgtca 420
gctggcgtcc tcttcccagc tcagcagatg gttttgcttc agcattaccc cgactggaac 480
gcatag 486

<210> 3603
<211> 846
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (670)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3603
gacttaccag aatcccagcg ctggatattc tacatcaact tccccttcat cggagtggga 60
accctggcta tcctcctttt cctcaagctc aacatcatcc cgacctcccc ggccgagaaa 120
ctccgcaaaa tcgacttcgt cggcactgtc ttgttcgtcg gcagcctggc ctcgttcctg 180

atcccgttga catggggcgg tgttctgtac ccctggaatt catggcggac ccttgtccct 240
ctaatcatcg gcgcctgtgg cctggctgtg tttgcttact acgaggtaag gttcgcagcg 300
gacccaatta ttccgccaac gatcttccag aaccgtaccg caactgtatc ctttcttgga 360
agtctcctac agggacttgt gctctggtgt gccctctact atctgccctt gtactacgag 420
gctgtgaaag aatacagtcc gattgtttcc ggagtcgctc tattcccgga gactttcacg 480
gtagccccta gcgcgatggt agtgggtatc ctcaccacaa gatggggcca ttacaggtgg 540
gcgatctggc tcggatggct cctctcaacg ctcggcgtcg gtctcatctg cttcatcaaa 600
gtcgacacga gcattcccgc ctggatattc ttgaacattg ttcccggcat tggcctgggt 660
ctgcttttcn cgtccttagg gttcgcaatt caagcctcag ccacgagcga tactctcgcc 720
atcgccgtcg gcatgttcag tttcttccga gccatgggcc aagcgattgg tgtggctatt 780
ggtggcgtct tgttccaaaa acgcctgtat cacaatctgc tccagtaccc gtctctcgcg 840
ccccga 846

<210> 3604
<211> 882
<212> DNA
<213> A.fumigatus

<400> 3604
tgccctctat ggcacatttc actgagcccg cgcgcagtct tccaaccaaa cttcgcctct 60
ttctcgagca tcttcggtcg acgaccgctc gtactagttg ctctcgcctt cttcttcgtg 120
ggaacggttg tagccgccgt agccaagaat ttcacctact tgctcgttgg ccgatcgatt 180
cagggtgtgg gaggcggagg actgatcgcc ctgagtgagg tgattgtcac tgacctcgtc 240
cccttgcgtc tacgaggcca gtattttggt atattgtccg ccatgtggag cgtgggttca 300
gtcaccgggc ctattcttgg aggcggattc tctcaggacg tcagctgggt aagcttcttt 360
tctggtggat ggacgagatc ggacaaagta ggacttacca gaatcccagc gctggatatt 420
ctacatcaac ttccccttca tcggagtggg aaccctggct atcctccttt tcctcaagct 480
caacatcatc ccgacctccc tggccgagaa actccgcaaa atcgacttcg tcggcactgt 540
cttgttcgtc ggcagcctgg cctcgttcct gatcccgttg acatggggcg gtgttctgta 600
cccctggaat tcatggcgga cccttgtccc tctaatcatc ggcgcctgtg gcctggctgt 660
gtttgcttac tacgaggtaa ggttcgcagc ggacccaatt attccgccaa cgatcttcca 720
gaaccgtacc gcaactgtat cctttcttgg aagtctccta cagggacttg tgctctggtg 780
tgccctctac tatctgccct tgtactacga ggctgtgaaa gaatacagtc cgattgtttc 840
cggagtcgct ctattcccgg agactttcac ggtagcccct ag 882

<210> 3605
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3605
acgaagaaat tgtctcgagg aattgtggca gtgtggtata tcaccaagtg cccagagtcg 60
caacagcatc tagatgagtt aagaggtgct tcttccgctc cgatcagctt ttacaagatt 120
aaatctcact tttccttcca ctgcgatctg ctgcaagcat tggaatgcac agaattctac 180
tccgatgagc tttccaaaga gccatga 207

<210> 3606
<211> 699
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (38),(56),(58),(139),(219),(438)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3606
aattggcccc cgatcatatg cgactttgct tgcagaanag acacggtggg cagtantngt 60
ccttggtacc aacccagttt acaccagcca ctcggtccgg tcaacatgtc ctcgacagct 120
cttcccaagc gcgttgcgnt gcatcgcaac ccaaccacgg agtcctccgt cccaagctcc 180
gtctctcact ctcctttcga cagtcttcgt cagtccctnt catcgacgtc gctctcctca 240
atggcttcgg atgccgagaa gaccagcagc aagatgattg acacctatgg taacgagttc 300
aaaattcccg attacaccat caagcagatc cgggatgcca tccctgctca ctgctaccaa 360
cgctcggctg ccacgagttt gtactatgtc ttccgggaca tggccatcct tgcgagtgtc 420
ttctatgtct tccacaanta tgtcaccccc gagaccgtgc cctccatgcc ggtgcgcgtc 480
gtcctgtgga ccatttatac cgtcgttcaa ggtctagtcg gcaccggtgt ttgggttctg 540
gcgcacgagt gcggtcacca ggctttctcc acttccaagg tcttgaacga cactgttgga 600
tggatctgcc actctcttct gctcgtccct tacttctcct ggaagatctc tcacggcaag 660
caccacgtct tcacgcccgg cggctggaag atcagcgtc 699

<210> 3607
<211> 507
<212> DNA
<213> A.fumigatus

<400> 3607
ctcaggggtt acgcattgca gcaggcgaaa ccggtcatgt tacgcaactc catccataaa 60
ccgcaagttc tctgctcgga cgatcccatt ctgacctacg ggttcatcaa tctgatcaac 120
atgtttgaga aactgacccc caacctgtac gactggatct ctgccggtgg cggggagggc 180
ttttgcgaga tgcctcccat atcctccatc cagtcgagtc tctgcaaacc catgtcgcta 240
gacggggtag tagaaatcca gagagtcgac atcctcgtca cacagcagtg gctgcaggcg 300
atgatctgga aactctccat ggcgcacgtc tcgcagcccg ggtcgcgaga ggatgccgtc 360
cttcccttcc atctcccact cttggtagga aaggccgtga tggatgtaat cggtgctgca 420
tcccagggtt caatcgatgc ccacggaatt ggcatggtga gtttagattc ccatcctcct 480
agtctgctaa cccgaccaat ccactga 507

<210> 3608
<211> 462
<212> DNA
<213> A.fumigatus

<400> 3608
ctgagttgca tttccttcca ggaacaaaag ctcttcgaca taggaatggc tgtcgcagac 60
gttacccgct cgctaggctc aaaagcctcc catcatctcg ccgaatcagc cgttgacccc 120
cgcgaactcc tctggggcct gctcagcatc ctgtcccgca tccgcggctc cccctcatac 180
ctctttccca ccctcctcaa tcgctcaaag agcatcctcg gcctcgactg ctccattagc 240
atgagcaatt ttctcccccc catcaccgca cctccctcgg gacccacgcc atcctggcgc 300
gaccaaagcc agagtagatg ggacctgctt actgccgcag agccagagac agaggaatcg 360
gaccatgccg cttctgttcc tgtctctgtt cccgcctcgg tatcgcatat cccatccccc 420
atgacatttc acgataccca tcttcttcgg gcggcacggt aa 462

<210> 3609
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3609
atagggcatt ttcgtcaacc aaatattatc ttcttggcat acctctttaa gtcacgtatg 60
attggaacat tgggggatgg agaaagatac atgccgtacg gtggtggtag tctgtgctta 120
ctagattcta actgtgagat ggagattatc ctttattttt cgagcaaggg tacgcttctg 180
aataatgcaa ctgaagagta g 201

<210> 3610
<211> 600
<212> DNA
<213> A.fumigatus

<400> 3610
agcgcgtttc cttcgagccc cgtggtgaag acgccgaccg gagtggctgc tagtgcgggc 60
gaccccgagg acaaggaggt gctgaattac catatccttc ttattgagaa tatgaaccac 120
tacatcgaag aagtggatgt gcgcggcctc cctgtcctgg agcgatggcg cgatcgagcg 180
cagcaagact acgaggaaca cctaaagctg tacctggacc tggtgatcca gcgaccacta 240
ggtaagctgc tggagtttat cgatgcggct gaaggcctga tggctggggg cgggaacccc 300
gcggacattg ccagccgtcc cagccactcc cggtctgttg ccaagaaggt gttggcgatg 360
tatgacagca aagagattcg gcgcgggatt gaattgttga agaaacgagt ggacaaacac 420
tttggggatg cagacgaccc ggggctaagt cgcagcctgg tcttgaaagt gcttcgagcg 480
tgcgaacggc ggtacgagga agcgtatgat cgaacgcggc acgtgttgga tgcagtctac 540
gaggggcaac ttgatctgga atggcggaag gaagatgtca ttgccatgtt caaccggtag 600

<210> 3611
<211> 1104
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (873),(1033),(1085)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3611
tcgactctgg cccagaagag aaagaaaaga agatgcttac gcaaaatact catcacaccg 60
ctcctccgtc accctctgac agtcaaaccc gtatatctcg cgctgcacat ccgcatccgc 120
ccacttatcc ggcacggggc ccttccccgt cccctgcctc agcgcggcaa actgcctgtc 180
gcgctcttcc ttggccgcgc cctcgcccag atgcagcgcc cgccccgacg cagccgccag 240
ctcgaccagc gcatatgccc ggtccttgcg cacactctca tacaccttca gcgccttggt 300
gatgctcgcc ggcgaggggt ccggcatgcg gcgcagggcg atggcgatcg tcgcgccgtc 360
ctcgatcgcc tgcgcggcgc cctgtgcgag atgcggcagg gtggggtggc aggcgtcgcc 420
gacgagggcg gtctgttcgt ggacccaggt ggggaggggt tcgtggacgc gcagcttcca 480
ctcgcagact tcgccttcgg gcacgtagtt gagcatgcgc tggacgaggg ggcagaagtc 540
ggcgaagaca cggagcatgg cggccttgga gcccttggtg gtgtaggtgg cgttggtggc 600
ggcggcgaag ttggtgtcgg gctgggtggt ggagaggttg tagatggtgt tgttggagac 660
cgggtaggcg atgatgtggc ggcgctcgcc gatccagcgg atcacccggt tgctgttgat 720
gatggcttgc agctcggggt cgtcctggca ttggtccttg tgaatcatga tgcggtaggc 780
ggcctggttg gtgtccttga cggtggcggt gatgccgagc gtttgcagca tcgcgacgcg 840
cgtcttggac ttgatgccgt cggcggcgag tangacgtcc gcctcgaccg ggtaggggggc 900
gctgccgtct cgggggacgg ctgtaaaggt tgcacgcggg gcgaacgagg tcacatcctc 960
cgcggccgtg gaaaaatgga acttgatttg gtcggggcaa ccccaaacac cccttgtaca 1020
aggcgttggc cancaaatgc ggtgggcgac catgttgagg gtatccgtat gtttcgccga 1080
agtanccgag ttgaacgtgc ccga 1104

<210> 3612
<211> 429
<212> DNA
<213> A.fumigatus

<400> 3612
cagtcaaacc cgtatatctc gcgctgcaca tccgcatccg cccacttatc cggcacgggg 60
cccttccccg tcccctgcct cagcgcggca aactgcctgt cgcgctcttc cttggccgcg 120

ccctcgccca gatgcagcgc ccgccccgac gcagccgcca gctcgaccag cgcatatgcc 180
cggtccttgc gcacactctc atacaccttc agcgccttgg tgatgctcgc cggcgagggg 240
tccggcatgc ggcgcagggc gatggcgatc gtcgcgccgt cctcgatcgc ctgcgcggcg 300
ccctgtgcga gatgcggcag ggtggggtgg caggcgtcgc cgacgagggc ggtctgttcg 360
tggacccagg tggggagggg ttcgtggacg cgcagcttcc actcgcagac ttcgccttcg 420
ggcacgtag 429

<210> 3613
<211> 996
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (160)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3613
tggccaacgc cttgtacaag gggtgtttgg ggttgccccg accaaatcaa gttccatttt 60
tccacggccg cggaggatgt gacctcgttc gccccgcgtg caacctttac agccgtcccc 120
cgagacggca gcgcccccta cccggtcgag gcggacgtcn tactcgccgc cgacggcatc 180
aagtccaaga cgcgcgtcgc gatgctgcaa acgctcggca tcaccgccac cgtcaaggac 240
accaaccagg ccgcctaccg catcatgatt cacaaggacc aatgccagga cgaccccgag 300
ctgcaagcca tcatcaacag caaccgggtg atccgctgga tcggcgagcg ccgccacatc 360
atcgcctacc cggtctccaa caacaccatc tacaacctct ccaccaccca gcccgacacc 420
aacttcgccg ccgccaccaa cgccacctac accaccaagg gctccaaggc cgccatgctc 480
cgtgtcttcg ccgacttctg ccccctcgtc cagcgcatgc tcaactacgt gcccgaaggc 540
gaagtctgcg agtggaagct gcgcgtccac gaacccctcc ccacctgggt ccacgaacag 600
accgccctcg tcggcgacgc ctgccacccc accctgccgc atctcgcaca gggcgccgcg 660
caggcgatcg aggacggcgc gacgatcgcc atcgccctgc gccgcatgcc ggacccctcg 720
ccggcgagca tcaccaaggc gctgaaggtg tatgagagtg tgcgcaagga ccgggcatat 780
gcgctggtcg agctggcggc tgcgtcgggg cgggcgctgc atctgggcga gggcgcggcc 840
aaggaagagc gcgacaggca gtttgccgcg ctgaggcagg ggacggggaa gggccccgtg 900
ccggataagt gggcggatgc ggatgtgcag cgcgagatat acgggtttga ctgtcagagg 960
gtgacggagg agcggtgtga tgagtatttt gcgtaa 996

<210> 3614
<211> 414
<212> DNA
<213> A.fumigatus

<400> 3614
tccgctggat cggcgagcgc cgccacatca tcgcctaccc ggtctccaac aacaccatct 60
acaacctctc caccacccag cccgacacca acttcgccgc cgccaccaac gccacctaca 120
ccaccaaggg ctccaaggcc gccatgctcc gtgtcttcgc cgacttctgc cccctcgtcc 180
agcgcatgct caactacgtg cccgaaggcg aagtctgcga gtggaagctg cgcgtccacg 240
aacccctccc cacctgggtc cacgaacaga ccgccctcgt cggcgacgcc tgccacccca 300
ccctgccgca tctcgcacag ggcgccgcgc aggcgatcga ggacggcgcg acgatcgcca 360
tcgccctgcg ccgcatgccg gacccctcgc cggcgagcat caccaaggcg ctga 414

<210> 3615
<211> 828
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222> (21),(73),(233)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3615
ctcgggcacg ttcaactcgg ntacttcggc gaaacatacg gataccctca acatggtcgc 60
ccaccgcatt tgntggccaa cgccttgtac aaggggtgtt tggggttgcc ccgaccaaat 120
caagttccat ttttccacgg ccgcggagga tgtgacctcg ttcgccccgc gtgcaacctt 180
tacagccgtc ccccgagacg gcagcgcccc ctacccggtc gaggcggacg tcntactcgc 240
cgccgacggc atcaagtcca agacgcgcgt cgcgatgctg caaacgctcg gcatcaccgc 300
caccgtcaag gacaccaacc aggccgccta ccgcatcatg attcacaagg accaatgcca 360
ggacgacccc gagctgcaag ccatcatcaa cagcaaccgg gtgatccgct ggatcggcga 420
gcgccgccac atcatcgcct acccggtctc caacaacacc atctacaacc tctccaccac 480
ccagcccgac accaacttcg ccgccgccac caacgccacc tacaccacca agggctccaa 540
ggccgccatg ctccgtgtct tcgccgactt ctgccccctc gtccagcgca tgctcaacta 600
cgtgcccgaa ggcgaagtct gcgagtggaa gctgcgcgtc cacgaacccc tccccacctg 660
ggtccacgaa cagaccgccc tcgtcggcga cgcctgccac cccaccctgc cgcatctcgc 720
acagggcgcc gcgcaggcga tcgaggacgg cgcgacgatc gccatcgccc tgcgccgcat 780
gccggacccc tcgccggcga gcatcaccaa ggcgctgaag gtgtatga 828

<210> 3616
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3616
ctttggcact cggcacgaca gaggagaact cacattccca accccacgac gcagtacgtc 60
gcataccaga aactcacatc ccctcccttc gcccccgtcg cgggcggata ccacggcgca 120
actaccatgt acaggttcga gaggatggag aagccgacga ccacgttcca cgccttgtac 180
ccagagggtg gaatgttgtg ccgtttacgg tga 213

<210> 3617
<211> 315
<212> DNA
<213> A.fumigatus

<400> 3617
gacatgcttg gatcttccgc tatgcgatac tcatatcggc agaatcctgt caaaacgttg 60
cgatggagcg cgccgctctc cctcctgctc gtagcaaccc tatacatgct cgccaacatc 120
gcctatttct ccgccgcatc aaaggaagag atcctcggct caaaggtcgt ggcggcgagt 180
atcttcttcc agaaagtctt cggcacgagc agcgcgtcac gagccctgaa cttcttgatc 240
tgtctcagcg cgttcgggaa cctgcttgcc gttcttatcg ggcagtcccg tctcctccga 300
gaatgcggaa ggtaa 315

<210> 3618
<211> 294
<212> DNA
<213> A.fumigatus

<400> 3618
agcgtcgccg tccctaacga gaccagacaa ggagtcctcc cgttcaccaa gttctggacc 60
tcgacccgtc cattcggcac gccgcttggg ccctacgcgc tgaaatgggc cttgaccgtc 120
ctcatgattc tagctccacc agccggtgac gccttcaatt ttggtgcgat cttttccccc 180
acaaatatcc acgtctatac tgacgttcgc agtcgtcgac ctgggcgtct accccaccaa 240
tgcattcgcc ttattcctcg ccattggact attgctcacc cgtcgtcacc gtaa 294

<210> 3619
<211> 639
<212> DNA
<213> A.fumigatus

<400> 3619
cggattagca ttggtatcac cggcctagtt gtccttgggg gacacaccaa gatcgaagat 60
cccaaggcca attttcgcga cgcctttgcg ggtagttcct ctgcctcggt gtatggtgcc 120
acaaacgccc tggtcaaggt ggccttctcg tacgcgggat tcgaaaatgc gttcaacgtg 180
gtgaacgaag tcaaggtagg acatgcttgg atcttccgct atgcgatact catatcggca 240
gaatcctgtc aaaacgttgc gatggagcgc gccgctctcc ctcctgctcg tagcaaccct 300
atacatgctc gccaacatcg cctatttctc cgccgcatca aaggaagaga tcctcggctc 360
aaaggtcgtg gcggcgagta tcttcttcca gaaagtcttc ggcacgagca gcgcgtcacg 420
agccctgaac ttcttgatct gtctcagcgc gttcgggaac ctgcttgccg ttcttatcgg 480
gcagtcccgt ctcctccgag aatgcggaag gtaagtcaat gccatgcatg ggctgaagcg 540
tcgccgtccc taacgagacc agacaaggag tcctcccgtt caccaagttc tggacctcga 600
cccgtccatt cggcacgccg cttgggccct acgcgctga 639

<210> 3620
<211> 435
<212> DNA
<213> A.fumigatus

<400> 3620
catcgcctcc gattccgaaa tactggcaac agtgccatgg atgacaccca aatagagcat 60
ccaagaccta tcccaatctt ctattgctgt tatctactcc gctcgactgt gagacatgcc 120
tctctctata tcggatccac gcccaatccc gcaagacgac tgattcagca caatggtgtc 180
gtcaagggcg gcgcccgtcg gactgccgcc gagaagctga ggccgtggga gatggttctg 240
gtggtcgaag gttttatgag tcggctggca gctctgcagt ttgagtacgt ctcgcactat 300
ttatcttgcg tacagaatct aacattccca aagatgggct tggcaaaatc cttggtactc 360
acgccactta cgatcagaag aaagctcagc tctcgcggag gtcaagcaca ggagaatgag 420
gaaagcaaaa tctga 435

<210> 3621
<211> 264
<212> DNA
<213> A.fumigatus

<400> 3621
aagacagctt tcaggatgaa atttagatat tttaaatact tagttatgct atttagactg 60
accaacacac cagcattatt caaaagattt attaaggaag tactacacaa ggttctgcac 120
tgctttgtgg tagtctacct agataatatc ttaatctttt cagaaaataa agaagaatat 180
gtagaatata ttagagaggt tctacaagaa ctccagaagg caaatatcag gttgaaactt 240
aagaagtgtg aattccacgt ctaa 264

<210> 3622
<211> 243
<212> DNA
<213> A.fumigatus

<400> 3622
tttattgggc ttatgaacta ttatcagcaa ttcatcaaag gatatataaa aattatgatg 60
ctattctttg aactacttaa gaagggaaag gagtttgagt ggactacaga gtgcgaaata 120
gtattcacta gaatcaaaga aaaaattata accgcaccaa tcctagtgca atataatcta 180
gataaggaga caaccatcaa gactaacgca actgactata caattagaat gagaatgact 240
taa 243

<210> 3623
<211> 384
<212> DNA
<213> A.fumigatus

<400> 3623
ctccatgtgg aacctctgtt aatcaagcca ctcactagca ttctagttag atacatggaa 60
gctgacctaa cctgctacct gggcaaagga cattgtattg cgttggcatc ctcttgtatt 120
tattcgacgt tatctttctt gtgtgcatgg aatcatgcaa tcatgctgtt ctctcccttt 180
ttatgcccct ttctctctgc ttccctggtc tggatatcat acagaagggt cgatgataac 240
agatggtttc tggttagctc catgggttat ttcaagattt taaccaacac tttaaaaaga 300
aatctgtatt attatgatta ttattattat tattactatc tgactatctt gatgcatgac 360
gcggctggtc taggtttgag ttga 384

<210> 3624
<211> 231
<212> DNA
<213> A.fumigatus

<400> 3624
gatcgatcga actgccttcg gacgtccagc gccaatgaag aggttcatca ttatggtggg 60
attcacaagc gtacagtgga aatgaacagc ttacacaagt cagcttcgcc tcagacacgg 120
caaggtgaca tggctgcgaa gatatccctg aatctctttc tggaggtgat ctacatcaac 180
tccacagcca ttgataatat ggagcctctg ctaactctga tcggctcata a 231

<210> 3625
<211> 468
<212> DNA
<213> A.fumigatus

<400> 3625
gagttggccc atggcttgag gtacaccacc tttggttact ctcaccttcg ggttcaggcc 60
ctcaatagtt cgagttcggc atatgtcccg actagcggag agaccaagcc tgcgccaacc 120
tatggtgaga tcggtagtgc cgccgactac ctgtatcccg agggtctcaa aagaattacc 180
aagtttattt acccttggct caactcgacc gacctcgagg attcttctga cgacccgaac 240
tacggctggg aggactcgga gtacattccc gaaggcgcta gggatgggtc tcctcaaccc 300
ctcctgaagg ctggcggcgc tcctggtggt aaccctaccc tttatcagga tcttgttagg 360
gtgtcggcca ccataaccaa cactggtaac gtcgccggtt atgaagtccc tcaattggtg 420
agtgacccgc atgttccttg cgttgcaatt tggctaactc gcttctag 468

<210> 3626
<211> 234
<212> DNA
<213> A.fumigatus

<400> 3626
tatgtttcac tgggcggacc gaacgagcct cgggtcgttc tgcgcaagtt cgaccgaatc 60
ttcctggctc ctggggagca aaaggtttgg accacgactc ttaaccgtcg tgatctcgcc 120
aattgggatg tggaggctca ggactgggtc atcacaaagt accccaagaa agtgcacgtc 180
ggcagctcct cgcgtaagct gcctctgaga gcgcctctgc cccgtgtcta ctag 234

<210> 3627
<211> 1809
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (850),(1728)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3627
gccattcgaa ggaccccagc caaagcaggc caaagctgca ccacagatcc tgaacttaac 60
attatttgct tttcaagcct cgttcacagt gattgtgcag gctgttgtcg ctccgctgtt 120
gacggtttat caggaggccg atgggcttgc caaacagaga gcgatactgg aacccttggg 180
ggtctctttg attcagccat cgaagttttt gggaaatggg actcccctga gcttgaaccc 240
gccgctgaaa acgctttggt cgaatttaaa gatcagttct cggacgtctt tggtcaagca 300
ttgatgggag cagcaaagga agaagtctcc ttccgagtga ctgctcttga agggtttcta 360
cgtctgtcca tcctgagaga ttacttccaa gataacgaaa tcggcttgtt tgtgcaatac 420
ttggatgaaa tcctattaaa agaagaatgt gcgggccggg gtgacttgaa gaagaaagcc 480
atcgcagctt tggctgaaat atcgaagcac aagccacgat tgatcatgga tataacattc 540
cctgccttcg ttgctactct gcccgactct gacgaagggc caaacaccga ctatataacg 600
acacttgaga accttgcaca gatcagtgtc gaaagagata ttttcgagac attagtccga 660
cgtctactca gcaagctgac catattgctt caaaaggaac gcgctggatc tatagcatac 720
cctcgcgcga ttctcatgac cattctgtat gtgatgaaac agaggaatct ggataaagat 780
ccaaacctgg aactctacta tgacaagatt gtaagaggcc tctgccgtgg tgttgcagac 840
gcggccacan gaaagtctac gaatcggatc ttgaatgacg cagttgtcat tgatattctt 900
ggaaggcttc tgcaaagtca ttggttcggt gtctgtcgaa gcaaaaacca agatgaaatt 960
gcacagaacg tctacactct gtttgctagc tcgagtacat ttacgccggt gccgttctcg 1020
caagcagcaa atgaggatca acagcgtaca atgattatct caacatatct tcttgcaggg 1080
cttccggcag actgcgcaca cctcccgtat agcggccgcg acttggcacc tctcctttca 1140
gaccttgtga ctcgatcatt gacggagtgc gagccaccaa cccatcttgc gtttcttcgt 1200
cattctgcct tgctcgtgaa caaatttctt ccaagacccg aacttagcgt cgctacgaac 1260
atattgaaca agctgttctc tgctggtgct gaggagaaaa aggtaccttc gggaacaatt 1320
aagacgatat tttggctctc gaaggctctc atcatacgtc ttgctccaac gaccacggaa 1380
atactgacct ctcttttgtc actactttcg tcgcatgatg agttgacaag taccactgct 1440
gctcgcggct tcgctattct ccttaaggac gacgacgtcc tttcagctga caatggtgca 1500
aacatcagac ttctggcaaa acagcgtgtc ttcacgacat tgacacccct aatctcgaac 1560
cgcattcgcg aggtcaatgt cgcaggcgat gactcgtcta cgcccgcaca cataaaacca 1620
gcacatctca ctgccttatc aggtatactt tcaacaattt cgccttcatt ggtcatgccg 1680
gagctcccga cactgctttc tcttctcctg gcaagctggg atctgcanaa cgcagactca 1740
cagggcgtcc gtgctgcaac actagagact ctcgcccgta ttatcccgga aaatggccgt 1800
cgcatttaa 1809

<210> 3628
<211> 1260
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1166)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3628
ggaaacatcc tcggaagtca cgccgactca tgcgcagcta aacgtttctc cgggatgcaa 60
ctacaacctc agaagcacta caattacatc ctaggtagta tgttaagtat caagtttcta 120
cctcttcatc cagatgtgaa tcgtacatca aaatcggcct gtatgccatc aagtacccca 180
atgtccagca gtaccatggc ctccccgatc atggacaccg tctctgaaca accaccccca 240
gaagaaccca tcagcaaccc cgaccacatc gatggagtgg catatctcta cggccatcct 300
ttgctcaact ccctatctcc gcctctccac caaacaatat accaaagtct cggtctgaat 360

tggacccaga tccctctctc cagcgtctac gggacatcag aaacctaccc tccaccatac 420
acccgctcac ccccgattcc caaattcctc gcgtccatca agtccaaccc caagttcgtc 480
ggctcctccg tgaccatgcc atggaaagtc actatcatgc cacacctcga cgacctcacc 540
gaggacgccc gacaggccgg cgcctgcaac accatcttcc tccgcccgga agccgatggc 600
aggacgtcct acgtcggcac caacacagac tgcatcggca tccgcgaggc tcttctccag 660
aattccaccg gcgagaaggc attccgcaac aagcccgccc tcatcgtcgg cggaggcggc 720
accgcccgca cagcaatcta cgtgatgcgc aagtggctgg gctgcagcaa gatctacgtc 780
gtcaatcggg atgcggccga agtagctgcc attcttgagg aggaccgcca gcgcaatccc 840
agctccgaca aggctccgct catccatgtg acggatcgca cggttgcggc tcgtctggag 900
cctcccgcgg tcattgtctc ggggatcccc aattaccctc ccaaaacgcc gggggagctc 960
caagccaggg aagtgctgca agtgtttcta ggggaggccc cggcaacgac ggcaaccccc 1020
aaaggcgtga ttctggagat gtgctatcac cctgtcccgt ggacggagat tgcgcagctg 1080
gcctccacgg ctgggtggaa ggtgattctt ggttcggagg cgttgatctg gcagggcctg 1140
gagcaggcac ggctgtggac tggtanggac gtggttgcgg agcctggcct agtagagaaa 1200
gtcaaagagg tggtgggcaa gttgattgct gaacgggtgc cgtccaagtc aaatttataa 1260

<210> 3629
<211> 201
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (6),(111)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3629
gaggcntggt cacaacggga atccgcctgg aatcccgaga cggatccgat cgaagaggcg 60
cgcttggcca gtcggttgta tttggtattt aggcccgttg ggccatcaga nactgagacc 120
gggagacaga cgcaggagag gactgtgagc gaggtgtgga agcgcgtgag ggagctggat 180
tatacacgac ctggtgcata g 201

<210> 3630
<211> 291
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (36)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3630
ctttctctac taggccaggc tccgcaacca cgtccntacc agtccacagc cgtgcctgct 60
ccaggccctg ccagatcaac gcctccgaac caagaatcac cttccaccca gccgtggagg 120
ccagctgcgc aatctccgtc cacgggacag ggtgatagca catctccaga atcacgcctt 180
tgggggttgc cgtcgttgcc ggggcctccc ctagaaacac ttgcagcact tccctggctt 240
ggagctcccc cggcgttttg ggagggtaat tggggatccc cgagacaatg a 291

<210> 3631
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3631
ctggcccggt cgggtttggc tggaccaggg gcctcgttga gcgccgggtt cgcttttggc 60

attccgccaa tcatcaagta tggtagcaag gacttacaag aacgttttct tcctgatctc 120
ctcaccggaa ggaaacgtgg ctgcattgcc atcacagagc cagaagcggg aagcgatgtc 180
gccaatatca ccaccactgc cacgaagact ccagatggaa agtactacat catcaatggg 240
acaaagaaat ggtaccttct agaagatata ctacaattga tggaagtttc taatacccat 300
tag 303

<210> 3632
<211> 411
<212> DNA
<213> A.fumigatus

<400> 3632
tcggtcgaga gatcttatct gaatctaaat caagaccagc tcgatcttga tactctgtca 60
agccaacgca ccatggctga ggtctctccc aaccccattc ccttctcaga gcccccgtac 120
ttgcggggtc tcccatcgcc atactacacc gccagtcatc gccgattcca gaaagcttgc 180
cgcgcattct tatgggagca cctcctcagc catgcaatgg actgggagaa ggcgggtaca 240
gtccccgaac atgtctttaa tgatttctgc aagcataaca tgttgctgcc gaatctgccc 300
gctccgttgc ccgtggattg gctgaagaag ctgggaattc atgatattct cggggtgaaa 360
gttgaggagt gggattatct acataccgga atctactgcg atgaggtatg a 411

<210> 3633
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3633
agcatactca ttgtatgtat ggtaggcgca gccgggtgct ggatgtgggt acaggtcgag 60
acgcctgagt ggatccagga agttgaaccg cgctacgcta gtgtcaatgt tcaacttacc 120
ttcattgcat tgtggacccg tcagtccttc ggacaaggtt ttcaactcgc cattaggcga 180
tacattgccc ca 192

<210> 3634
<211> 495
<212> DNA
<213> A.fumigatus

<400> 3634
ctgctcaact cctccgctat acttctccaa gtacaagctg ctctcatcgt acagccaact 60
gcaacgccgc agcagatact cgtaggcact caaatccact attccctgca agctatcagc 120
ctggctgctt tcctcaccgc attcaccatc ctcgagatta acaagggcga tcatccgcga 180
ctgacatcgc tgcatggcat cttaggacta attacctaca tctgcatcat cctccaagca 240
ctgctgggac ttgttcagta tttcttccct gtcaagatcc ttggcagtgc tgatgcgggc 300
aaaagactgt acaagtacca ccgccatttt ggatacttgc tgcttgtctt ggaactggcg 360
accgtgtcag cggcaaccca gacgacgtat aatgtggctg tcctgcacat tccgctttgg 420
ggcgttcttg ttgcagcggt attaattgtc gctggagtcg gtgccaggat caagaagcac 480
aagctgggct tttag 495

<210> 3635
<211> 291
<212> DNA
<213> A.fumigatus

<400> 3635
acccagccaa cctattattt taagctgcaa gcatcttacc atcagacttc tggctggatc 60
tctaatcttt cctcgataac acatatctcc acctcgaaga ccttctggaa gacgctcacc 120
gacttctaca gtaatatcat actcatggcc tctgccacag gagtccctca agaacatcct 180

cagaccattg aggccagaga agatgagcca ttattgggta gaccaggggc agtgacgcaa 240
agagaaagcg atcctattta ccgcaattta atcaaaggta ggcgctgctg a 291

<210> 3636
<211> 873
<212> DNA
<213> A.fumigatus

<400> 3636
atcgcgtgtc cttccagccc cgtggtgaag accaacgtgg gcggctccct cctgatgggt 60
ttcttccttg aagacaagaa tctcttccgc gaagaatgga gtcaaccgcc ccctcgtaac 120
cccagcgaag acagcgacgc tgcgcgccaa tacgcacaga accataaatc ggtcaagaag 180
accatcccgc tctacatcgg cctcaccacc ggcttctgcg gcagcttcac ctcattctcc 240
tccttcatcc gtgatgtctt cctcgccctg acaaacgacc tccccgaccc ctccgtctca 300
tcaatcactt cccgaaatgg cggttacagc ttcatggccc tcctcgccgt cctcctcacc 360
accgtcgccc tcagcctctc agcactcatc tgcggcgccc acctcgccct cgccttcgac 420
ggcttcactc catccttccc cttccgtctc acccgccgcg tcatcgaccc gctcttcgtc 480
ctgctgggct ggggctgctg gcttggcgcc gtcttcctag ctatctggcc accagatcgc 540
tccggcagca gcatcaatgc cccagacacc tggcgcgggc gcgccgtttt cgccatcgtc 600
ttcgccccgc tcggctgtct cctgcggtac tatctttcgg tctacctcaa cccgcgcgtg 660
cctgcgttcc cgctggggac ttttaccgtg aatatcttcg gcacgatcgt gctggccatg 720
tgctttgatc tgcagcgggt ggacggggtc gggactgtga ttggggcaga tgcgcgctcg 780
gcgccgtatg cgatcctcac gagttgtcag gtgctccagg gcgtcacgga tggcttctgt 840
cttcacagcg ccgctggaag gaacaccccc ccc 873

<210> 3637
<211> 474
<212> DNA
<213> A.fumigatus

<400> 3637
tgtcttcctc gccctgacaa acgacctccc cgacccctcc gtctcatcaa tcacttcccg 60
aaatggcggt tacagcttca tggccctcct cgccgtcctc ctcaccaccg tcgccctcag 120
cctctcagca ctcatctgcg gcgcccacct cgccctcgcc ttcgacggct tcactccatc 180
cttccccttc cgtctcaccc gccgcgtcat cgacccgctc ttcgtcctgc tgggctgggg 240
ctgctggctt ggcgccgtct tcctagctat ctggccacca gatcgctccg gcagcagcat 300
caatgcccca gacacctggc gcgggcgcgc cgttttcgcc atcgtcttcg ccccgctcgg 360
ctgtctcctg cggtactatc tttcggtcta cctcaacccg cgcgtgcctg cgttcccgct 420
ggggactttt accgtgaata tcttcggcac gatcgtgctg gccatgtgct ttga 474

<210> 3638
<211> 231
<212> DNA
<213> A.fumigatus

<400> 3638
gtgaggggtt gtggtgccct gataagtcga tatagtcagt ttgagccgtg ccgctatggc 60
tctgcttgct tttcgggcgg agcgccacat gaatttgtag gtgtatggct tattgccacg 120
ccgtcgggga tttccgcccc cctcgcccat tcttatccta ttgtggggaa gctgaccttc 180
atcgtcactg accacgcaga tgcagttacc atcatccctg ccctcatcta a 231

<210> 3639
<211> 498
<212> DNA
<213> A.fumigatus

<400> 3639
cctaatctta cgcagctcgt cctatatgcc gccctgcaca gtctgtataa catctaccta 60
cattctctct ctcgcttccc cggccccaaa ctctggcaaa ccagctacat cttccgccac 120
attgccagca tcagaggcac tctcgacgta tctatcaagg cattccatac cgaatacgga 180
ccggtggtcc gctattcacc cgacgaactc tccttcatct ccgcggaagc gtggagggac 240
atctacgggt ttcgcgagaa cgcccttccc aaggacccat ccttatacgg cctcatccag 300
ctctctcggg ataagagccc gagcatcttc acagcagacc aggatcatca tccgcgcgtc 360
cgaaaggctc tctcttacgc gttctcagag aaagcgatcc gcgaccagga gcctttcgtc 420
aaacactatg ttgacctgct tatccagcga ctgcgaggca tcgccgacgc agaggataac 480
agggtcgata ttgtgtag 498

<210> 3640
<211> 789
<212> DNA
<213> A.fumigatus

<400> 3640
gaggaatcca ctctcacatc ccttttcacg caatcatcaa ggattcccag gcagatgtcg 60
ttcctcatgg agagctcagc tgtcggtcaa ccgtcacctc tcagcttcag taacaccctt 120
aatgctcttc tgggtgcagt aaggactcag ttcacaaccc caggagtgaa aaggctgaca 180
cataacctaa tcttacgcag ctcgtcctat atgccgccct gcacagtctg tataacatct 240
acctacattc tctctctcgc ttccccggcc ccaaactctg gcaaaccagc tacatcttcc 300
gccacattgc cagcatcaga ggcactctcg acgtatctat caaggcattc cataccgaat 360
acggaccggt ggtccgctat tcacccgacg aactctcctt catctccgcg gaagcgtgga 420
gggacatcta cgggtttcgc gagaacgccc ttcccaagga cccatcctta tacggcctca 480
tccagctctc tcgggataag agcccgagca tcttcacagc agaccaggat catcatccgc 540
gcgtccgaaa ggctctctct tacgcgttct cagagaaagc gatccgcgac caggagcctt 600
tcgtcaaaca ctatgttgac ctgcttatcc agcgactgcg aggcatcgcc gacgcagagg 660
ataacagggt cgatattgtg tagtggtacc actttaccac ctttgatatt atcggcgaca 720
tggccattgg tagatcattc gactgcctcc gtcttctacc aaaggagtcg gcggatccgc 780
gctaagaat 789

<210> 3641
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3641
ctaactttgc tgagtagctc ctgtgtgatc ctggacccaa tctattctgt agataagagt 60
ttcattttat cgcatctgcg tgtctgggta tacagtgtgg ataattggaa ctacgatgat 120
tggggtaggc cgcatcgggc aagacagctg gggtatatga cacccctgaa caatctacat 180
tga 183

<210> 3642
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3642
accctgaccc ttcccaaacc cctggtggag tttggaaacc gcccgatgat cctgcaccag 60
gtcgagagct tggctgctgc cggtgtcaca gatattgttc tggccgtcaa ctaccgtccg 120
gatgtcatgg tcgcggccct caagaaggta caccgatccc ttctcttgca cgggctgata 180
cgttcatgtg gctaa 195

<210> 3643
<211> 183

<212> DNA
<213> A.fumigatus

<400> 3643
tctgcaattg tcgcccgcag tacgaagaac aatacaacgt cagaaatcga gttctccgtc 60
gagtccgaaa ccctcggtac cgctgggtcc cctgaaactg gcaaaaaaaa atttggggca 120
aggaagaatt ctccccttct tccgttctca acttccgata acaacttggg aataacccct 180
tta 183

<210> 3644
<211> 558
<212> DNA
<213> A.fumigatus

<400> 3644
actggtggaa acggaatggg catttccccg caaattgaac agtgggtgac actcttaatt 60
ttcggtgcgc ttgctcgagc tcctcggaat cgtatgcccg gtgtctccgg agaacaatat 120
gccgtgcaca tgcgcgatgt ggtgatggcc atggttggcc tcacacacac catgaacacc 180
agagtcggca aggatttcgt ccgcggtgtc agtggtggtg agcgtaagcg tgtcagtatc 240
gctgaggcca cgctcagtgg cagccctctg cagtgctggg acaacagcac ccgtggtctg 300
gacagcgcga acgcgctcga attttgcaag actctgaacc tgatgaccaa gtacgccggc 360
gctaccgttg ccgtggctat ttaccaagcc tcccagagtg cgtacgatgt aagtagcata 420
tctctacccc tgtctgctgc tctagcgcta attcgattac taggtattcg acaaagtgac 480
tgttctgtac gaaggaagac agatctactt tggacgcacc gacgaagcca aggaattctt 540
taccaacatg ggatttga 558

<210> 3645
<211> 348
<212> DNA
<213> A.fumigatus

<400> 3645
gtattcgaca aagtgactgt tctgtacgaa ggaagacaga tctactttgg acgcaccgac 60
gaagccaagg aattctttac caacatggga tttgaatgtc cggaacgtca gacaaccgct 120
gatttcttga cttctctcac cagtcctgcc gagcgtgtgg tgaagcccgg gtttgagggc 180
aaggtcccgc agacccctga cgaatttgtg cgagcttgga agagcagcga agcctacgcc 240
aagttgatga gagaaatcga agagtacgat cgggagttcc caattggtgg cgagtcgctc 300
aaccagttta tcgagtctcg cagagccatg caggcgaaga accagtaa 348

<210> 3646
<211> 1083
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (738),(1022)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3646
ctttattatg gccttggtta tcggaagtgt tttctacaac ctgccggacg acacaagcag 60
tttctacgct cgtggtgctt tgcttttctt tgccgtgctg ctcaacgcct tttccagtgc 120
cctcgaggtg agtcaaattg gctaatgtgg gactatcacc agccagctga ttgtctccag 180
attttgacac tctatgctca acgtcccatc gttgagaagc aagctcgcta cgcaatgtat 240
caccccttcg ctgaagctat agcctcgatg ctctgtgaca tgccttataa gatcaccaac 300
gccatcatct tcaatcttac actctacttc atgacgaatc ttcgccgcga accgggcgcc 360

tttttttgtct tcttgctctt ctctttcgtc accacattaa ccatgtccat gcttttccgt 420
acgatggccg cttcgtcccg gaccctgtcc caggccctgg tgcccgccgc tatcctcatt 480
ttgggtcttg tgatctatac cggcttcacg attccgaccc gcaatatgct aggctggtcg 540
cgttggatga actatatcga tcccatcgca tacggatttg agagtttgat ggttaacgaa 600
ttccacaacc ggcaggtctt gtgtccagac tctgcatttg tcccctcgag cggtgcatac 660
gacagccagc ccttggctta tcgggtctgc tcgacagtgg gctcagtttc tggctctcgt 720
tacgtccaag gcgacganta cctcaaccag agcttccagt actataagag ccaccagtgg 780
aggaacctgg gtatcatgtt tggtttcatg ttcttcttca tgttcaccta cttgactgcc 840
accgagtaca tctcggaatc gaagtctaag ggtgaagtgc tactgttccg acgaggccac 900
gcacagccca ccggctccca tgacgttgag aagagccctg aggtgtcttc cgctgcgaag 960
acggacgagg ccagtagtaa agaggctacc ggagctatac agagacaaga ggcaatcttt 1020
cnaatggaag gatgtgtgct acgatatcgt cttctaccac agagggtcga aggatccgcc 1080
cga 1083

<210> 3647
<211> 408
<212> DNA
<213> A.fumigatus

<400> 3647
gagaaatcga agagtacgat cgggagttcc caattggtgg cgagtcgctc aaccagttta 60
tcgagtctcg cagagccatg caggcgaaga accagtaagt cagaagcgtt ctcaactcag 120
gtaccatgtg ctaaatctct tcgcaggcga gtcaaatccc cctacaccat ttccgtatgg 180
cagcagatcg agctgtgcat gatccggggc ttccaacgtc tcaagggcga ttccagtttg 240
accatgtccc agttgattgg taactttatt atggccttgg ttatcggaag tgttttctac 300
aacctgccgg acgacacaag cagtttctac gctcgtggtg ctttgctttt ctttgccgtg 360
ctgctcaacg ccttttccag tgccctcgag gtgagtcaaa ttggctaa 408

<210> 3648
<211> 639
<212> DNA
<213> A.fumigatus

<400> 3648
agatttgatt cagccaacag ctccaatatc ataaccaaac cagtcatgga cagactattc 60
tccaaaagca cttcccccca gcccgtctac acctttgccc tcgacagctc gggggaaaca 120
atcacctgcg caggccgacc agccttccag ctcgcgacgc agaaatccaa accgcatctc 180
accgtctcgc gtctcccgcc gccaggacca tggtcccccg cgcctgtccc cgtcggaacc 240
tgcaccgtcc acaagttccc ctctagcaag gtggacatca cacttcacgg gcaggaattc 300
atgctcaagc gcgatctcct caaaagcgat aaccaccact tcgattaccc gccgctaggg 360
cacttcaagt ggaagcccga tgcatggggc gggagtaagc tggagttgtt tgacagtggc 420
cggcggttgt tagcacgcta cgacaagaag ctctcgttga ccgggaaggg gcagcagatc 480
gaagtgtttg tgccgggggа cgagcggttc gtggagatgg tgattgtgac ggcgttggcg 540
atgaggcatt atatcgaggt ggagaataag gatatccaga aagtgacgga cattcttgag 600
tcttcaccac ggggctggaa ggatgcgcgg gtaggctat 639

<210> 3649
<211> 219
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (121)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3649
tgccttcctg tcacaatccc tggcaacact tgcggtggct cctcccactt tctttcgggg 60
ttcccactga aaccccactg ttctcccgtg acaccccaaa tttccaaccc caagtccatc 120
ncttatgctt tccctgccac tttgcttcct acctttgttc ccctgggttt gtccattaaa 180
atccgccctc cgggtccaat ttcgggaaaa ttcaccctc 219

<210> 3650
<211> 1239
<212> DNA
<213> A.fumigatus

<400> 3650
gtgctctcgt atacgggcct ctggtcatcg ttgcctcggt tggcgttgtt tgggggccta 60
tattatggct ttgaatggtt cctgcttgtt cggtggtctg ccacgatccc tgtgctcgaa 120
ttccctgctg atttgttgtt ctacaacttc gctatgcccc ttgccatacg gtctatcaag 180
ccctctgatg gcttacataa gctttacaac tggtggttcc ataaatgcgc ccggttctta 240
cgactcagca gctttttctt tggtgaaagg cacaccgatg aagaaggtta tcatgtgaga 300
cggacttggt ttgatcttct ttcaggaaag aaaggcgaca ctgaacaccc catcgtcggt 360
gaacctgagc gtcgccgcgc cgacgaaaag cagcttgctg cttacttcgt ccgggacggc 420
aagtttgtac gggctccggc ttccgatcaa gtgcgtattc caaagggcaa gccagtgttc 480
ttggaggtca ccgacaacaa cgagcgggtt gatggcgcac cggatccgga cgagggtcta 540
cacggtcgtg ccaacgacat gttcactaag gtctacatcc caccctcctt caggaccaga 600
attgcggcgt tcatcttcct gatctgggtc tttgccgcta ctaccggggt aggcaccaca 660
attattcccc tagtaattgg ccgaaaaatc atgttggcat gctttcccga tcggccgcta 720
aatgatatct acgcgttctc tttgggcatc tgcattgtcg gaagtgttgc ctatctcatg 780
ttctattgcc ggaccttctt ggctacgatc caggatcgtc ttcgtcccta ccttcgttcg 840
ccacaacagg ctttgctcgg attcggaaat gccgcactca gcggtctgcg actagcttac 900
atagtgctcg cattctcggt tctactgccg tccttgtttg ctctagtcat ggagctttac 960
gtgattgttc ctgtgcatac gtacctgggt ggaacacggg cgcacatcat ccactttgtg 1020
caaaactgga cgcttggggt gctgtatgtt caaatggcta tcaagtttgc tctatggcat 1080
tctacttcgc gacctgcagc ggccctcaac ggtgttttcc ggaacggctg gctgaaaacc 1140
aatgtccgtc ttgccacccg agccaataat gccttcctgt cacaatccct ggcaacactt 1200
gcggtggctc ctcccacttt ctttcggggt tcccactga 1239

<210> 3651
<211> 513
<212> DNA
<213> A.fumigatus

<400> 3651
cagcgagctt tcctcgcgcg aactaccctc aagatgccct cggacgacga tctcaaggca 60
cacgctgcct ctaaccaaga tttctatgct ctgcttgaca tcccaccggc tgcttcggag 120
tcggaaatcc gccgtgcgta caggcggaca gccctcaaat accaccctga caagatcgca 180
aacccaacac agacagacat cgacaaattc cacctattac agattgccta cgatgtactc 240
tctgatccct ccatacggca actctacgat aatgcgcgag aagcgcgcga aagaaaaaag 300
cgtgagctgg agatgatgga cgcggcaaaa aggaagatga aggaggactt agaagctcga 360
gagcgtgccg gtgcagttgc gatgggaggt gcacaacgag gcgtcaagag gacctggatg 420
tctgccggca tggctggagc ggacgacgat gatgatgagt tcttcggccg gacattgaac 480
gttttgtatc gacacgccgg aattactcac ccg 513

<210> 3652
<211> 738
<212> DNA
<213> A.fumigatus

<400> 3652

catgagcaag ggcgccacat ccaatgtcga tatcataccg cctccctccc tgagccatgg 60
ggacgtccca tttacctaca tgtatgcctc tttgcaccac atgctcattc acattcacca 120
acactaaccg agccaagtta ccgtcagaac ccaaccgtcc gacaatcagt cgacacctcc 180
ggcaacctca ccaccgtcaa cacctcccaa gccgccaaag tccacaccta tctactgccc 240
ttcgacgcac cagtgcctac caagccccgc gagaatcttg cacccatcca cacccttgat 300
ccaaccttac gagaaaccat tgccctcgtc gaagacctct tcaaagagcg cccagcttgg 360
actcgccgcg gccttcgcaa caacctcaaa accccggaac agcgctacgc cctccgccac 420
gccgtgcctt atgtcggcta catcttccgc tcagggccct ggcgcgacgc catcatcaag 480
ttcggccatg acccgcgcac ctccccccgcc taccgcatct accaaaccgt catgttccgc 540
atcctatccg gcacctcgga gctcgcccgc gacgccggca gcggcagacg gcacaccatc 600
ccacgaccca acgaggtccc cacaggcacc gacgccttca ccccctttacc aacagacaca 660
cacctcttca ccggcactcc gcccctccca ccagaaggcc gcatgtggat gttctgcgac 720
atcaccgacc cgctcctg 738

<210> 3653
<211> 612
<212> DNA
<213> A.fumigatus

<400> 3653
ccgagccaag ttaccgtcag aacccaaccg tccgacaatc agtcgacacc tccggcaacc 60
tcaccaccgt caacacctcc caagccgcca aagtccacac ctatctactg cccttcgacg 120
caccagtgcc taccaagccc cgcgagaatc ttgcacccat ccacaccctt gatccaacct 180
tacgagaaac cattgccctc gtcgaagacc tcttcaaaga gcgcccagct tggactcgcc 240
gcggccttcg caacaacctc aaaaccccgg aacagcgcta cgccctccgc cacgccgtgc 300
cttatgtcgg ctacatcttc cgctcagggc cctggcgcga cgccatcatc aagttcggcc 360
atgacccgcg cacctccccc gcctaccgca tctaccaaac cgtcatgttc cgcatcctat 420
ccggcacctc ggagctcgcc cgcgacgccg gcagcggcag acggcacacc atcccacgac 480
ccaacgaggt ccccacaggc accgacgcct tcacccctttt accaacagac acacacctct 540
tcaccggcac tccgcccctc ccaccagaag gccgcatgtg gatgttctgc gacatcaccg 600
acccgctcct gc 612

<210> 3654
<211> 816
<212> DNA
<213> A.fumigatus

<400> 3654
catgtggtag gtttgcaaat ggttccttcc atattccctt ctgccgttca aatagaatta 60
ctctctcgat tgttccatcg agatctgtca aacccggagc atcggaccaa ccttcacctg 120
cactaccacc tcacctaccc tggtcaagct gcaagtcaaa ccgacacggc cgtttccgca 180
cctgaagatg gctccacagt accacagact gtatctttct ttgaagagga ctcgtccaac 240
gtcttatttc ccaaagatcc gcaggtccat aagccgatta cggttgagca aatgctcacc 300
aagaagctgc gctgggtgac ccttggcggt caatatgact ggactgctaa agaatatcct 360
tcggggcccc cgccctgcat tcccctgctg atattggcca agctgctgcg cacagctttc 420
cctcaaacaa aagcagaggc agccatcttg aatgtttatt ctcctggcga cacactgagc 480
cctcatcggg atgtcagtga ggagtgtgat gtaggcttga tcagtatcag ttttggctgc 540
gatggcctct ttctgatcag ccatgatgat gggactgatt gtgagatcat ccgtcttcgc 600
tcgggggacg cagtgtacat ggatggcacc tctcgctttg catggcacgc agtaccgaaa 660
attgtccctg gcacttgccc ggattggttg gctgattggc catgtaaatc cgagacacct 720
gataagacag catttggcaa gtggaggggc tggatggccg gcaagcgggt aaatctgaac 780
gtccgacaaa tgtctgcaac tgactctcat gggtga 816

<210> 3655
<211> 186
<212> DNA

<213> A.fumigatus

<400> 3655
atacagaata gtctcgattc ctcatacctg agactgccgg ggccattctc ggaagcggcc 60
ggatctcttt tttacggccc agacattgct gcggaccctg attttggcga gaccttactg 120
cggtatttga ccttctccag ttatggccct aatatgtatg gccgattgtc cgctggttcc 180
tactga 186

<210> 3656
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3656
tcctgtctat ttagctatca tgctgactat agccgccact cacacgactg caactcttct 60
aactacaatt atataccaaa tctgcaaaca ctggatttgg ttgagcctct tcggggaaga 120
gatttgctca gtgattccag gaccttgcct aagactaagg cggggttcac cgaaattacg 180
ttttattga 189

<210> 3657
<211> 231
<212> DNA
<213> A.fumigatus

<400> 3657
gctgtctttg agtttctcat cgtattcgtc tccggctttg gcttcctgtt tgacttgtta 60
gctttcatga tgtttattta cacttactcc gtacagactt gttggcctga cgatacatac 120
cttgtctttg ctaaagcgat tacatccgaa cttgtatcag atctgacgtg tcaatgtcac 180
ctgattagtc caaatgtctt ttctcccgaa tccggtgctg tctcgttgta a 231

<210> 3658
<211> 480
<212> DNA
<213> A.fumigatus

<400> 3658
gagcatccct tgagcgtacg tctcagatat cctcgattgt ctcttgcgca catattgttg 60
accgtacatc tacagttgag cccatcagtc actatgcctt ccatgcacga tcgtatccgc 120
gaggacctca tcatcaaaga gcgcgctctg tggacggcct tgacctcagc agaccccggg 180
ccggctatcg agaaactctc ccaccaagaa gtcaacatga tatttcctca aacacccatc 240
ttaacgctgg agggcgagaa caagatccag gatgctgtca agccaccctt ccaccgattc 300
gatacctact ctctggacga agtgcgggtg atcatcatcg atctcatggc gggtacggtt 360
acgtaccggg tcactgctac cagaggaaac aagacgtacc gtgcaaatgg ctcgacgacc 420
tggcaacagg cttcggatgg agaatggcgg attatttgtc accaggaaac attggtgtaa 480

<210> 3659
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3659
gtcggtggta cggtccagac atgctcatac tccctaacgc agttactcat atcccgcttc 60
gtcaacggta tcggcactgg gattatgtca acattagtgc ctgtctacca agcagagcta 120
tgtgaggcgc ggaaacgggg aaaattggtg tgcagcctac cgcttgccgt tggggttggg 180
attgtcctcg cctattggtt tgactatggt atgacctatg ttacggggtc aatcagttgg 240
cgattaccta tcgcttgtca ggaaatattc gccgtgcttg tagtcatttt agttgctggg 300

taa 303

<210> 3660
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3660
ctctgtgctt ttccaggcta taatcagggt gtcttctccg gaatcatcaa caatgaagac 60
tttctgaata tcgtcaacca cccacgcgcg ggcatgctcg gattcctcgt gtcaatctac 120
aatctgggct gcttcttcgg tacttttatt gcctttatga caacagacag gcttgggttc 180
caaaagtcta tgtggttttc gatggtctat gtagtagtga gtgcagcccg cgaatga 237

<210> 3661
<211> 486
<212> DNA
<213> A.fumigatus

<400> 3661
ctatggtatg acctatgtta cggggtcaat cagttggcga ttacctatcg cttgtcagga 60
aatattcgcc gtgcttgtag tcattttagt tgctgggtaa gtcggccagt tccgtgtaca 120
actgcacttg aatttatatt ggtcagatct aacgggtgtg acaggctccc agaaagtccc 180
cggtggttat acaggaaagg tcgtaacgag gaagcactgc aggttttgtg tgaggtgtat 240
gaccgggcac ctgatcaccc gaaggtcctt gccgagtcgg aaggaatctt acaagcactc 300
gagttggaaa gcgcgcgtgg agaatacaga tggtctcaga tcttccttaa gagagatgat 360
ttgcagactg gtcgacgggt tcttatggct tacgggctcc agttcatcaa ccaaatgggc 420
ggtaccaata tcatcgttgt aagtgacccg catgcacgtt tgcaggcggt tcgaactgac 480
aagtag 486

<210> 3662
<211> 228
<212> DNA
<213> A.fumigatus

<400> 3662
cgtcttcatt tattcggcgt tgcgaattgg ctacttgtca gttcgaaccg cctgcaaacg 60
tgcatgcggg tcacttacaa cgatgatatt ggtaccgccc atttggttga tgaactggag 120
cccgtaagcc ataagaaccc gtcgaccagt ctgcaaatca tctctcttaa ggaagatctg 180
agaccatctg tattctccac gcgcgctttc caactcgagt gcttgtaa 228

<210> 3663
<211> 690
<212> DNA
<213> A.fumigatus

<400> 3663
tcggtaatta ggtcagagcg cttggacagt gttggtcaga aagcccgact cccgcggagc 60
gtacaagcct tgtatcttcg gccacttcgg cggaagcctg aatttggtct gccagtctgc 120
gatcttcaac tcaggtctta tagcgttcgc aacttggagt tttttgctga ctttgctcta 180
cgagctgcat attacctgga acttcctgtt tctgggccgg ttcccctgcc acggatcgtt 240
gagcgctgga ctttcccgcg aagcaatttc gttcacaaaa aaagtcagga gaacttcgag 300
cggataaccc ttcgccggtt gattcagatt aaagatgggc atccccaagc tgtacaggca 360
tggctggctt ttttgcgtaa acatgcattt tacggagttg gtatgaaagc aaatgtgtgg 420
gatcacgaaa gcctcggtat ggcctcctcc cgctatactt attgcctgac caaaattgtg 480
tcaagtctat atgcttacgg attgttaaat ctagacgtgg cccggaacat ggatgaatca 540
ctgcccgata tcgagaagtc gcttgaaccg tacctctcac attttggtta tcggagtgac 600

ggatcggatc agagcgcagt atttgatctt ttagaaagtg agcgtttcac tcataacaag 660
agccccttga cagacattcg caagggttaa 690

<210> 3664
<211> 459
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (419),(425),(428)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3664
ccaataatag atatcctcgg agtacctgac gagactgtct gggaatatgg agaagccctc 60
cgcaggatgg ccgtcgagaa ggagcttcat catgtcaagt ttatccgact gtttgagctt 120
ctcgaacacc cctggattcc tctgaccagc gctgaacaag ccaagtcata ttacctggca 180
catgcgcaat gcctccgaag agagttgatg taccggttcg aggaccgcag cttcgacgct 240
gatgcggcta tccgcagtga caatgatacc tgcctcacat atcgcgggta catcaagttc 300
ctgaccaaag acctggctcc tcaaatggac acgcagtata cgagtaaaaa ggccagagca 360
gctcatatcg cccagattgc tcgtagcatg atcgtccgcg gaaagatgtt tgctgcgtnt 420
tctcnctnag agcagacaag gataccgcaa aaggtgtag 459

<210> 3665
<211> 645
<212> DNA
<213> A.fumigatus

<400> 3665
ggaacacgtc gcaatgaggc ctctctgcag cagccattga gcgaagttga tcggcacgag 60
cagcctgccg caagcgacaa cacacagtcc gggttggaca ttcctcctgt aaccgtctcc 120
acccccaaa gtagcgacaa tccgcttgtt gaatcaaagg aggcagtccc agttacgttc 180
aaagacgagg gcaaagggac caaggatgac ccctcgcacc tcctagccga ggccctcgaa 240
accaccaacg gagaggagaa cagtcccatc tccgaagacg aagcaacagc gattgctgtc 300
ctgaaagtca tcgaacgtta tggggtgaac tttgagaaga ctggcgagtc ctggcagggt 360
ctgacctcgt tcattcccac cgtggttgag caagtcaaaa agcgggaagc tgttcggatg 420
atcctcccgg ctttcccgtt caagtccccc aatgctcgag acaaggtctt gggtgtgatg 480
ccagatctcg gagaggagct cgcgttatat catttgaatg ggctgtgcga gaacattgga 540
agagtctacg aaccgggtgc agatgtatat atcagctcgg atggactcgt atacaatggc 600
aagtctctcc tgcactcacc acggtttcac cgtgctaacc aataa 645

<210> 3666
<211> 735
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (2)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3666
tnttcgctcc accgcggatc cttccagccc cgtggtgaag acggcaacat ccccctcctc 60
gcactaacca tcctctcctc ctcctggaca acaggctcaa acgccgtcgg gattaccaac 120
ctggtcagtg gaaccgctgc tgcaggcgtg accgggcccc gcgagcgcga aacggtaatc 180
actcaagaaa tccccgtcaa ggtcctccac gaaagcgcag tcgaaggcct ccacgagccg 240

cgctgccgcg atccagacgt gcacatcatc ctcccgagcc tggcacacct gaaaagcatc 300
tcggagcggt tctcgaagct agcgggggac gcgcgacccg ctgccagcgg cgggattgtg 360
tcctcgacgc tgacgtcgcc caagctcgag ttatcagcaa atatgcatgg ctcgttgagg 420
ctggcgattg cgaccgatgc gctgcgcatc tctagtgtgt ggagtgatct cgtgaacccg 480
ccgctggatc cggcggggat gtcgcagcgt gagattgagc agttgcccag tgaaaggatg 540
cgggcgctgg ggagtgatga cgaggcgggg tgggctaagg tgcggatcga tgctaaggat 600
tggagtcggg tgttgagtat tgggcggctg agcccgaagg tggttgcctg tgagttgtac 660
tacggtggtt gtctatgctt gcgactctac gcttgtgcta atacgcctac tcgactgtcc 720
aggttttatc catga 735

<210> 3667
<211> 246
<212> DNA
<213> A.fumigatus

<400> 3667
acttttgta acaaaccctg tgttggagcc gaatacccag tctaccttac caaaacccct 60
cttttgttta ccatacagta cggtgatgcc ttatctatct ggatggtcac tggacgctcc 120
gctgacagta atgccacctg ctgtaagggg tacattctgt ctgacgagag agatcggcac 180
atatcttcat acttgtggat tcctctcaaa ctgatgttgg tctttgaaaa ttctgattct 240
ccttaa 246

<210> 3668
<211> 219
<212> DNA
<213> A.fumigatus

<400> 3668
gcagccatgg tcgctccaag acataatgct tatgcagagg agagcgcaga ggtcgaggtg 60
ctgtacgcca acctcgagaa gctcaagctc ctcaccaaga agattcaggg ctccctggtc 120
cgcctcgaga ccgggggtaa cgtcgtaaag catgcgatag gtcctatcta cagcaataca 180
caatcttcac tacagagcgg caggaccgcg ctatggtta 219

<210> 3669
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3669
cactgttctg tcggatatat tgatatatat atatattata tctctctctc agcccaaaag 60
gtctccagac aaatgactct aagtcacggc atacgttcat ctgaactgct ggcatgtact 120
ctgactgatg ataagaaggc tagttgcacg tcagtgattg aaatatctgc tgacattgac 180
atatataagg ctggatgggt tcttacaatt tga 213

<210> 3670
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3670
cagctgtatc tttctgacct atgcctctta aatgcctgca ggtttagctt caacatcaat 60
actgtactat ttacaagcac ccatgcagat ttctgggagc tagcaaacct tccatacgat 120
gttccaatac tgcagcggct aggtaggccg cacctacaga gaagaagaat ggctttgcat 180
attcactag 189

<210> 3671

<211> 525
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (500)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3671
aattggttcc aaaaccgacg agcaaaggca aagcagcaaa agagacagga ggagtttgag 60
agaatgcaaa aggccaaagc agaggctgag gaagctgctc ggaataaggc cgacagcgcg 120
gacgacacat ctgactcaaa ccaaagcgat tcgacgacca aggaggagac cgataaagcc 180
aacgacacaa agacatcgga gtcgggcggg ccaggcgagc agacgaagac atcgacctca 240
tctcgatcga agcatcagaa aacaaggagt gagtcggctc gagaggccac tttcgcctca 300
ttgcagagag ctctcaatgc tgccgtggcg gctcgtgagc actacggcag cgagtgcgag 360
caggatcgga atgacggcaa cagtgttgga ggatctgcct ccccaacgac atttcccctg 420
agcgctcggg gtaatgacca tgatgactcg gaaagcgccc acagtgctct caacacccct 480
ttcttcggcg tcttcacacn gcggcgggcg aaggacagta gcacg 525

<210> 3672
<211> 540
<212> DNA
<213> A.fumigatus

<400> 3672
gaatacctac tcggatcggc agctcgtggt gaaaaacatc tctaccgtcg acacctcccc 60
tattcgacta tcctaacttt ccccaattcc tctgccatga actacctaca ccacccatac 120
gccttcggcg gtcataatgc ggttcaattc gatcaatcca tagcctacga ccctgccatg 180
gcacaccatg ccatggtgca ccccatggat ggctacctat accctcaccc accatacgag 240
atggttgact actatcatca accgatcatg gactacgaag aatacgcgga gaatctgtcc 300
cgtccaaggt tgaccaaaga acaagtagag acgctggagg ctcaatttca ggctcacccc 360
aagccaagca gcaatgtgaa gcgtcaattg gccgctcaga caaatctgag cttgcctcgg 420
gttgctgtca gtttaatcct aagaagaatg caatatgtga catgcgctga cccgggaata 480
gaattggttc caaaaccgac gagcaaaggc aaagcagcaa aagagacagg aggagtttga 540

<210> 3673
<211> 999
<212> DNA
<213> A.fumigatus

<400> 3673
accgggaacg agtataacgg gcgcatgggc ttgcgtatat cgtccatatt cgtgattatg 60
gtcggctcga tgttgggtgc tgtgtttccg gtctttgcac ggagctttag cacctctaag 120
tttctcagac gggccttttt cgttgcaaag tactttggct ccggtgtcat tattgctact 180
gccttcatcc atcttttggg accggcagaa gaagcattga ctaatgagtg tctcactggt 240
cccattactg aatactcatg ggtcgaaggt atcatcctca tgaccattgt tgtgctgttc 300
ttcgttgagt tgatggtgat gcggtacgca cgcttcggtc atggccactt ggatgatttg 360
ggacacgatg atcatacgca tccatctctt gatgcccccc cagcaaccgt ggagtccaaa 420
agccacatgc ctggagagga ccatctcgga cactcccgcg agcatcgcga cactgagtca 480
ggtagaaagg cttccttaat cgaggagtat tccgctcagt tgacatcggt tttcatcctg 540
gagttcggta tcatcttcca ttcgatcttc attggcctga ccttggcggt atccggagaa 600
gaatttatca cgctctacat tgtcttggtc ttccaccaaa ctttcgaagg tctgggtctg 660
ggttcccgcc tggcaacgat cccttggccc aactcgaaac gcttcactcc ctacctactg 720
ggaattgcat acggcctctc tacgcctctt gccattgcta tcggactggg ggtccgtaac 780
agctaccctc ccgaaggtta caccactctt gttgtcaacg gagttttcga ctccatttcc 840

gccggcattc tcatctacac tgctcttgtg gagctcatgg cgcacgagtt catgttcagt 900
ccatcgatgc gcaaggcacc aatccgaacc gtccttgctg catttggtct gttgtgtttg 960
ggtgcgttgc tgatggcgtt acttggaaaa tgggcctaa 999

<210> 3674
<211> 219
<212> DNA
<213> A.fumigatus

<400> 3674
gtgagattat atcccctcag tcagctgtgc ctggattcaa actccacttc cctcttccca 60
tcatccacag atcaggcagg attcgaggtt caggaggcca tgcacatttt cgacgatatc 120
tcgtcagcag ttattttcat ggatcagcta gtgagacagg gctctactat gaagtacatg 180
aagctgccac tatgtcccat agaatacact acagcctga 219

<210> 3675
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3675
gagtgttccg tgtttagtcc gaaccacgaa aatgggatcc tcatgggcga atcaaacacc 60
ttcaaattct acgcattttc aatgcggaca gactctaaat tgaccattga ctatctggga 120
atttccgcgg ctatcctgat attcgacgcc gacgcgatcg ccggttttga agaaatactt 180
gtttgtgata tgagcagatt ccactgcatc agctggtcga agcaaataca tgaatag 237

<210> 3676
<211> 261
<212> DNA
<213> A.fumigatus

<400> 3676
ctcattcttg cagagtacaa ctcttttgac gacgaccctt ggattctgaa attggtcgaa 60
tatacaaaac aggctataga cgatcagcgt gtaaagattc tgggaatctg ctatgggcat 120
cagatcatcg gacgcgcgct cggagccaag gttggccgaa atgacgcggg atgggagatt 180
gcggtatgcg acgtggatct gacggagcag ggaaagaagt tgtttggaaa ggataagctg 240
gtatgtcatt tatttctata a 261

<210> 3677
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3677
ccggatctag taagtagccg catctccata cgcctggcct tggtccttag ttctacgtgt 60
gcaattctat tagcggatgg accatttgag tcccgcggtt ttttttttta ttttttttt 120
ttttttttt tttttccat ctctaactca ttcttgcaga gtacaactct tttgacgacg 180
acccttggat tctga 195

<210> 3678
<211> 300
<212> DNA
<213> A.fumigatus

<400> 3678
cagcaaattc aacaaatgca tcgagacatc gtattcgact acccaccgaa cgtcgttcca 60

cttggatctt cccctcgctg cgccgtacag gggatgtata ggccggggca tttcatcact 120
gttcagggcc acccggaatt caaacaagat attgtgtcgg agattgtcaa gttacggatg 180
tcaatgggtg ccttctccaa agaacaaggc gaggatgcac tggctcgagc agggaaggat 240
catgatggca ttgctattgg cgttgctttc ctgaagtttt tgctgggaga cattcaatag 300

<210> 3679
<211> 465
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (40),(198)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3679
catctgcagt ccatcctgct gttcccggac tgcgttaacn ccgataccct cgactacgcc 60
tactcaggca cccagaactg gagcggcagt tttcggcccg cgaaccgctg cccggccggc 120
atgaagcgca tcccgcagct gcggttctcc gttcgctacg atctgcgcaa gctgctgccg 180
aatgggtggt ccggcacncc gccgctggag ttggcgtgtg gctcgtcgta ctgctggcac 240
ggcgatttca ttaatggatg ggttcctgag gcggcgcaga atatgctgaa ggcgacggat 300
aagcgggagt ttatgcagat tgatgggccg ctgggtggag gcaaggatgg gtccaagtgt 360
ggagcgaaga atgcgcacga tcaggatcct aaccatggca cgagcgatta tgaggagagt 420
gtcaagatga tgtcgagcaa gaggagtatt ggccagcgtc ggtga 465

<210> 3680
<211> 408
<212> DNA
<213> A.fumigatus

<400> 3680
tccgttccag tctggtgtcc ctcatcctcc gtcacttcac ttgcaaagca taattcctct 60
catcgtcctt tagaatcagt gtactcaccc gacagcatca tgacagcacg ctacgcggac 120
gttcacaaga acccccaagg cccaggggat gctcgcccaa cagccatgca gatcatccat 180
gacgagggcc tcgaaggaaa actggccgac tcctcgatcc tgatcaccgg cgcatcctca 240
ggcatcggcg tcgagaccgc caaagccctc ttcaccaccg gcgcaaccct ctacctcaca 300
gccagaaacc tccccaaagc caaacacgcc ctcggcgaca tggcttcctc gccgcgcgta 360
cacctcctcg aattggacct tgagtccctc gccagcgtgc gcggtctt 408

<210> 3681
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3681
atcagttcca ctgacgacac ctcagatggc tggttctccg agcagtcgga tatgtggccc 60
ggccaggcca tgaacctcaa ggtcaaccag atcctgcacc acgagaagtc caagtaccag 120
gatgtgcttg tcttcgagag caccgactac ggcaccgttc tcgttctgga caacgtcatc 180
caatgcaccg agcgggatga gttctcgtat gtatgcccgc ccagcgcaca ttgttcgtcc 240
ggcggcttct aa 252

<210> 3682
<211> 372
<212> DNA
<213> A.fumigatus

<400> 3682
acctcaaggt caaccagatc ctgcaccacg agaagtccaa gtaccaggat gtgcttgtct 60
tcgagagcac cgactacggc accgttctcg ttctggacaa cgtcatccaa tgcaccgagc 120
gggatgagtt ctcgtatgta tgcccgccca gcgcacattg ttcgtccggc ggcttctaat 180
catgtagttt tatgttactg caggtaccag gagatgatca ctcacctggc catgaactcc 240
cacccgaacc ccaagaaggt tctggtcatc ggtggtggag atggtggtgt cctccgtgag 300
gtcgtcatgc acgagtccgt cgaggatgcc atcctgtgcg acattgacga ggtatcattc 360
tatctaccat ag 372

<210> 3683
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3683
atggtgtcga tcgctgattt ggtgaaggct gtcatccgtg tctccaagaa atatcttccc 60
ggcatgagca tcggcttcca acaccccaac gtgaaggtcc acattggcga caggttccag 120
tttctcaagg gagcgcaaag aacgaattcc gatgtcctca gtccctggac agctcttgac 180
ccttga 186

<210> 3684
<211> 231
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (24),(31),(90),(129)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3684
ttatccaggg aacgtcccca tttntttcag ngtgacctac agaatatagg ttctgaaatg 60
atattcgcag gattcagtca aaagtgtggn tccatccgga gacctatgca agtaactgtt 120
agccaaggnt tcattaaacc gtgcactcag tcagtccgtt ccaaaaacct accattccgc 180
gcctttcacg taattaagag gtgggtctat tctattgctc tcttctgctg a 231

<210> 3685
<211> 717
<212> DNA
<213> A.fumigatus

<400> 3685
ttgcggatcc gtccaccctc tcgtggtgaa gaccgcgacc tcatcccgac ttacaatgcc 60
agtggctatg gaaacatcca ccgtcaagtt gatgaccaaa gcgacgagtc tcaattctct 120
gggatcttcg aaagggccgt tgagactcgc aacaagggtc agctccatgc ttatttctgg 180
agaaatacca ctgcgtctcc cattcctcct agtatcaatt ctgttcttga agtattccct 240
gtccaacatc acaacaacac acccagggtc ctacacattg acgaaggaaa tgcgcatcat 300
ggcgttggcg gctacaatgc ccctggctat gaaaagaaag atgatatgcc cagctatggc 360
aacgcctctg ctcagcacca cgatgtctca gttaagtcta tcgatgttgg cagttccgat 420
atcgaagccc atgggaacac agatcctgct tgcactggtg gcacatatga tgctcatcac 480
gatgtggaga cgatcggaag ccatacgtcc gaaagcctca atgctcgcac tcccgtcgct 540
caagcctacg tccaagctgt cgaagaacct gcaaagaaac caactcctac ctttgccaaa 600
caatcggacg gaggtagaag aaaaaatggc aaccatggcc aaagctggta tgtcctcgtt 660
ctcgtcaatc ccttcccacc acagtggact tctaatgacc tttatcgaat atgctag 717

<210> 3686

<211> 1191
<212> DNA
<213> A.fumigatus

<400> 3686
atacataatt gcggatccgt ccaccctctc gtggtgaaga ccgcgacctc atcccgactt 60
acaatgccag tggctatgga aacatccacc gtcaagttga tgaccaaagc gacgagtctc 120
aattctctgg gatcttcgaa agggccgttg agactcgcaa caagggtcag ctccatgctt 180
atttctggag aaataccact gcgtctccca ttcctcctag tatcaattct gttcttgaag 240
tattccctgt ccaacatcac aacaacacac ccagggtcct acacattgac gaaggaaatg 300
cgcatcatgg cgttggcggc tacaatgccc ctggctatga aaagaaagat gatatgccca 360
gctatggcaa cgcctctgct cagcaccacg atgtctcagt taagtctatc gatgttggca 420
gttccgatat cgaagcccat gggaacacag atcctgcttg cactggtggc acatatgatg 480
ctcatcacga tgtggagacg atcggaagcc atacgtccga aagcctcaat gctcgcactc 540
ccgtcgctca agcctacgtc caagctgtcg aagaacctgc aaagaaacca actcctacct 600
ttgccaaaca atcggacgga ggtagaagaa aaaatggcaa ccatggccaa agctggtatg 660
tcctcgttct cgtcaatccc ttcccaccac agtggacttc taatgacctt tatcgaatat 720
gctaggagcg agccagttca ttcagactta tccggagaga aagacgaaag ttccgaaaca 780
cagtccactt cccaaaggaa ttcgggtgac aacactcctc catccgcaaa tatcgaatcc 840
tttattgacc ctgcacttac cgaatcgact cggaacaatg ttcccaaatc tgggtctgcc 900
aacatgacat ctcatacggc tcacaatgcc gaaaaggcgt acgggacacc tgctgacagc 960
caggaggcac agctggcgta tccctctagc agtcagggcg ttcctacttc catgcaagac 1020
cagtcccaag aagactcgaa tggtttggct gttctcaatc gtcctatgaa caaccaggca 1080
caccagtccc caaccatgca acaatcgcaa caccgatctt cgagctccga tgcggctcca 1140
aataatcttg atccaagcct atattctgca acggggccgg aaagtccaaa t 1191

<210> 3687
<211> 768
<212> DNA
<213> A.fumigatus

<400> 3687
gctacttggc ttggaataac tagtggccca ttgtgcaatc aatcggtcca ttctactgtc 60
tgctttgtct actctcggtt acacgccgac cggctggcag gggaagcact tcggataatg 120
atgaactcac tcaaattact tgtcgtctct ccagagatca accccagtaa tcgaaaagcg 180
aggtcaatac cagtcctcaa tcccttcgac cgatatggcc gggtattctt cttctcgtgg 240
cttggcttca tggttgcatt cctgtcatgg tatgcgtttc cacctctggt aaggcaatgg 300
tctcctatac ggcaagcact tggaaacgtg gcacaattga ctgagaatgg ctgtctagtt 360
aacggtgacc attcgcaaag atcttcatat gacacagcaa caagtcgcaa actcgaacat 420
tgttgctctt ctggctacgt aagtattgaa cggaaagttc tttcggaatt caaccatgct 480
gacgagccca ggttccttgt tcgattcatc gctgggccac tatgtgaccg cttcggacct 540
cgacttgtct ttatcggcct cttgctttgt ggctctattc ctacagctat ggctggtcta 600
gtgaccaccc ctaatggttt aatcgctttg cgtttcttcg ttggcatcct tggtggcaca 660
tttgtccctt gccaagtatg gtgcaccggt ttcttcgata agaacattgt gggaaccgcc 720
aactctctgg ccgcaggctg gggtaatgcg ggaggtggaa tcacatag 768

<210> 3688
<211> 702
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (135),(681),(699)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3688
gacgcccccg gcccgggtag atctacggcc atgggtctct ctgacatctg tcctcgcagt 60
ttcgtcatgc ctgctatcta cgactcgctt gttcactctc agggtctcgc accacataaa 120
gcttggcgcg ttgcntacat tgtcccattc ataatcatcg tcgtcctggc tctgtgcatg 180
ctgctcatat gcgaggatac ccctactggc aaatggtcgg agcgccacat ctggatgaag 240
gagaataatg aatcccaagc caatatcgtc aacctcatgt caggcagccc ctctacccgc 300
ccatctggtc ctccatctat caatatatcc actccgcaat ctgagaagaa gggtgcccag 360
acacctcaga tggtcgatcc tgaagctcaa gctgttggac aggttgacat cctcagagca 420
gacaccgtgg tggcccccag ccgcaaggag gtcatgaacg ttcttctcag tctctccacg 480
gccgctgtcg ccatcccata cgcctgttcc tttggatccg agctggctat caactccatt 540
ctgggcgaat tctattcaaa gaacttccct gacatgagcc aaaccgaatc gggccgctgg 600
gcagccatgt tcggtcttct caatgtcgtc ttccgtcctg ctggtggatt cattgcagtc 660
ttcaccacgg gggtggaaga ntcagcgctc tcattggcnc tc 702

<210> 3689
<211> 897
<212> DNA
<213> A.fumigatus

<400> 3689
atgtcgtggg gcggggccgt ctccctcgtc ttcccagatg gcttcaagct ctccttctcc 60
ggcgactgcc gcccatcgac caacttcgcc accatcggtc gcgactcaac cgtgctcatc 120
cacgaagcca ccttccaaga cgacatggcc gtctccgcca tcgcaaagaa acactccacc 180
acctccgaag ccctcgaagt cggccgcatg atgcaagccc gtactgtcgt cctcacccac 240
ttcagccagc ggtaccaaaa agtcgcacac gtcgaccacg gcgccggcgc cggcaccgca 300
aaaccagaac ccgaacccaa gcccgccccc atgacgcgag tggacctcga cgtgcccgac 360
gatgaacccg aacccgctcc cgagcctgta ccctccaccc taaccgtcac ccccgcggaa 420
aacgaaaaca aaccaccccct ccaagccccc gtcaccgccg cctttgacta catgcgcatc 480
cgtgtcggcg acatccccat cgcgcaggcc ttcgcccccg ccatcgagaa gctgttcgac 540
atcctcgagc gcgcctctgc agtcgaagca aacaagcaga agaaaatccg tgaagcggct 600
gacgccctgg caaaagagaa gaagcagaag caaaagaaga agggggccgc tggggctgag 660
ccgttatcct ctgccactcc cgccgccgct accggcgagg ccatggatat tgaccagggt 720
cgatctgtgt ggagcgctag cgaaagcgag aatggatggg gctcgaacga cgacgagtgg 780
atggatcggt tttggcgtgg gaagcacagt cggagtcgga gtcatagtag gagtaagagc 840
gcgagcggac ggcgctcgag cccgagtatt cggacgaaga gtggtgatgc tgtttag 897

<210> 3690
<211> 687
<212> DNA
<213> A.fumigatus

<400> 3690
ccgtcacccc cgcggaaaac gaaaacaaac cacccctcca agcccccgtc accgccgcct 60
ttgactacat gcgcatccgt gtcggcgaca tccccatcgc gcaggccttc gcccccgcca 120
tcgagaagct gttcgacatc ctcgagcgcg cctctgcagt cgaagcaaac aagcagaaga 180
aaatccgtga agcggctgac gccctggcaa aagagaagaa gcagaagcaa aagaagaagg 240
gggccgctgg ggctgagccg ttatcctctg ccactcccgc cgccgctacc ggcgaggcca 300
tggatattga ccagggtcga tctgtgtgga gcgctagcga aagcgagaat ggatggggct 360
cgaacgacga cgagtggatg gatcggtttt ggcgtgggaa gcacagtcgg agtcggagtc 420
atagtaggag taagagcgcg agcggacggc gctcgagccc gagtattcgg acgaagagtg 480
gtgatgctgt ttagattaga atattccatg atagacggaa gtcctgagcg aatacatata 540
cggacagaat tgtatccgtg gtttcatttc gcactatggg tgcatgcatt tacgcaagtc 600
tattattgtt ggttattgac cagccagcga ctatattaca aactgtgctt gttttcaacc 660
acaggcgggc cgaaggatca tatgcac 687

<210> 3691

<211> 219
<212> DNA
<213> A.fumigatus

<400> 3691
aagtcaaggg aatgggcaaa ggtggcagga aagggcggca ttggtatctt ggaagcacaa 60
cctgaggata ttgccctggt ttggcacacc agtgggacaa ctggtagacc caaagcggaa 120
tggcttacta cccctgaaaa gaaggccatc atactgatcg caatatggga acaggtccgg 180
ttaacacaca agaaccttgt cacaaccatg agtgagtaa 219

<210> 3692
<211> 927
<212> DNA
<213> A.fumigatus

<400> 3692
tcaatcacag aatatatccg ggatacatat ctgttaactc ccgaggaccg aacgtactta 60
gtgatgcccc tattccacgt tcatgggctg ctggccggcc tcctcgcccc tctcttttca 120
ggaggctctg ttatagtacc tctcaagttc tctgcctccg agttctggca agatttcgtg 180
actcaccagg caaactggta cacggctgtg cctacgatcc accagatcct cctaaagacc 240
cctctgccga atcccattcc caggatccgc ttcatccgct catgctcgtc gccccttcc 300
cccaagactt ttgaagacct ggaaagaact ttcaaggccc ccgttctgga agcgtacgcg 360
atgacagagg ccgcccacca aatgacgagt aaccctctcc cacccggaag acgccggcct 420
ggcagtgtcg gcatcggaca aggcgtagag gtcaagatcc tcgaccaagc gggcgaagaa 480
gtgcctcagg gcaaagaggg ggagatttgc gtccgtggcg agaacgtgac caaggggtac 540
ttgaacaacc cggcagccaa caagtcgtct ttcaccaagg acggtttctt ccgcacgggc 600
gaccagggga agaaggaccg cgacggctac attatcatca ccggtcgcat caaggagctc 660
atcaacaagg gcggagagaa aatcagccct atcgagcttg acaacacgct gttgtctcac 720
ccccaggttg cggaagccgt ctgtttcgct atcccggatg agggccacta tggagaggat 780
attggagccg cggttgtgtt gaaaagtgcc ggctctgcaa ccgaggcgga tctcaaggca 840
tggatggctg gaaagctggc caaattcaag accccgaagc aggtattcca atgcccttg 900
tgcccaacgt attttcctga gcaatga 927

<210> 3693
<211> 540
<212> DNA
<213> A.fumigatus

<400> 3693
accaaacgga catatctcgt tcgcacactt caaggcatcg cccaccataa gtctctgcga 60
atgaccttcc tttccggtgc cgtgaacgtc tgcggcgcgg gcctagtgca tgatcccgcc 120
cacccaaagg accacaagac catgtaccag ataatctcct cggccgttgt caacagccct 180
ccccctcgt acatcatcaa actcctccac agcagccaca agcccctata cattcccgcg 240
aacggccacc gctcgacccc gtcgcagccc acggatacca aggaagacat gatggaaatc 300
ttccagacgg acgtcacggg ccaaacacgc gaatatcgta aacttatggg tcggcgcaac 360
tacgtggcca tcgtcgccta cgaccccgag gtcgtaaaca ccatgtacgg ccagaacatg 420
tcccatggca gcggcaagct taatctcgcc gtcgacttta tggtgcaagg cgacggcacc 480
tatgggaatg tgatcaagta tggacccgtc attgtcccaa gcctggagca tgggaaatga 540

<210> 3694
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3694
aggatgacaa tgaatctttg cttacgacga gcgcaggtct gggttatccc agagaccaac 60

gaggtcttta cgaattatga accatacctt cagcgaatgg atttttacaa gcaaaagcga 120
tttatttgcg agattactgg tcattcgggg ttgacattct tcgaagccct taggagcgaa 180
gtacgtcatc tgattcttgt gggttcagtc ttttga 216

<210> 3695
<211> 492
<212> DNA
<213> A.fumigatus

<400> 3695
attcacgact taccgcagga tggacgcgtc ttcgatctcg ctggacgttt atgcacggga 60
cgaataatac ctagcaacaa gacacgacgg ggtgggttcg cgagtggcgt cgaaaaagga 120
aggtatcgaa aagaggccaa agagtcgtgc ggggaagaaa aaaggcgcga aaggaagaga 180
aaggcgcgag gagacgagga tagtagaggc ggaggagtag gaggagagga aaatgaagag 240
ttgaagagca aaagaaagga gaggcggttg ccgcgaccaa aagaagcgac ggcagaacca 300
agccccatca catttgagga tcattgcggc aagaggccca gtagtcagga attaggatgg 360
agtgggagag cgagctccga ggcatacaac aacggtgatt ggcccagagg aggaggacag 420
gacccggaca agaccttcag cgtcgggcgg agagtatttt cgaacgttaa agtacggtac 480
ggacaaggct aa 492

<210> 3696
<211> 549
<212> DNA
<213> A.fumigatus

<400> 3696
ccgttgtttc caggctattg tggtactacc caggctcatt gtcgctctcc agactgtcag 60
ctcgacttcg gtcattgcga cgctcatgaa accccagagg gccctcccgt cgaagatata 120
cctcgaccac atgtcggtgc cgtaccatat ggcccgcacg tcattcgctc gtgtgccaga 180
tcaggcacta ttgccttgac ttatgatgac ggtccgaaca gatacactgc tgaccttctc 240
gacctgttgg atcggtatga cgcaaaggcg acgttcttta tctctggaat taataattcc 300
aagggcccta tagatcatcc ggatctccca tgggcctctt tgattcaacg catgcaacgc 360
actaaacatc agattgcgag tcacacctgg tcgcaccaag atctcagtaa agttacacca 420
gagcaacggc gacagcaaat cctgaagaat gaagctgcgt tccgcaacgt tttggggaaa 480
attccgacct atatgcgtcc accgtactcg agctgcctcc ccgaaacggg ctgcttgaac 540
gacatgggt 549

<210> 3697
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3697
caatggcagc tgttcaataa acatcagtcc ttgctgtact ctagtctgaa gagttccatg 60
ccggacccag agtcgcaggt tatgactgtg atttatggcc atgattcgaa aaactccctg 120
tccctcaaga cgtataccaa gggcctggac tctgggtgcg tcaagggtgg aaagttgacg 180
gctatggttg tcgaagacgg gggaaagcag agcatcgtcc aggtgagatg tcgcgatcgt 240
cggaaggagt aa 252

<210> 3698
<211> 402
<212> DNA
<213> A.fumigatus

<400> 3698
gaccatgctc tggctggggc cttgctgggt tggcgccctc aacaccgaca cattcgacaa 60

gatccccata tcccgcctca caccccacga tatccaacag cagcccggcg ccgtaccagc 120
cctaatcatc atcgtcgcca tcctatgcgg tatcgtcatc acccaggcca tcgcctttcg 180
caacgaaggc cgtctgccaa aaatgcttgc catctacggc gtcctgaccg ccatcgttct 240
cgcgctccta gttgtgccac acatgaacct ccgcatccac cactacatcc tcagcttgct 300
ctttctcccc gggacgacct tgcagacgcg gccaagtctg ttgtattcgg gactcctgat 360
gggattgttc atcaacggaa tcgcccgctg ggggttcgat ag 402

<210> 3699
<211> 768
<212> DNA
<213> A.fumigatus

<400> 3699
gataagacca tgctctggct ggggccttgc tgggttggcg ccctcaacac cgacacattc 60
gacaagatcc ccatatcccg cctcacaccc cacgatatcc aacagcagcc cggcgccgta 120
ccagccctaa tcatcatcgt cgccatccta tgcggtatcg tcatcaccca ggccatcgcc 180
tttcgcaacg aaggccgtct gccaaaaatg cttgccatct acggcgtcct gaccgccatc 240
gttctcgcgc tcctagttgt gccacacatg aacctccgca tccaccacta catcctcagc 300
ttgctctttc tccccgggac gaccttgcag acgcggccaa gtctgttgta ttcgggactc 360
ctgatgggat tgttcatcaa cggaatcgcc cgctgggggt tcgatagtat tctccagacg 420
cctgccgcgt tgctcgacgg cgcgcagctg ggaagtgcgc ttccgcagat ctccacgcct 480
ctggttgtat ctgcgcagga gatcgtcttc actttcctga agaatttgac ttccgaggcg 540
gatggcatca gtgtgcttgt caatgacgtg gagaggttcc gtgctttccg gtcaggggat 600
gggtcagtag aatccttcaa ttggacgaga cggcgggcag aagaacctga atatttccgc 660
ttcgggtata taaaattgaa tgcgttgggt ggactgtggt atgaagattt tacaaagcca 720
gtcgtttggg acgttgatgg gagttggaat cgctcggctc cgacttag 768

<210> 3700
<211> 621
<212> DNA
<213> A.fumigatus

<400> 3700
gaaactttgt ccaatgcatc gatccatgat tttatcattc tagaataccg tgacacaatt 60
ggaggtcgcg cttggcacac gaattttggc aaggacgaaa atggagaccc ttatgttgtg 120
gagctgggtg ccaactgggt atgttattcc tcgttttacg tcgaaccaac caaccactct 180
gacgttgaac agatccaagg cattggaacc ccagatgggc cacagaaccc tatctggaca 240
ctagccaaag aattcaacct caagaataca ttttccgact atgacaacgt ctccacttac 300
aatgagaacg gatattccga ctactcgcat ctcttcgatg agtttgacgc cgccgacgaa 360
attgccaatg ccgcggccgg cacaattcta ctggaaaatt tactagatca aacagctcag 420
acagggctcg ctttggctgg ctggaaaccc aaaaagaccg acatggaggc gcaggctgtt 480
gaatggtgga attggggtaa gtctgcttcc accttcaaca ggaatgaaat taacagcgca 540
gacttcgagg acacttattc accactcgag agctctctgg tatttggcta cgccgggagt 600
aacttgacct ggaatggctt t 621

<210> 3701
<211> 225
<212> DNA
<213> A.fumigatus

<400> 3701
tccccatcct attatactgt cctcgacccg aaggctagac tccgtatgac agtgcctgct 60
ctacgcttcc tgtgcggctt agtaggccca aaccatgtac gacgcaaacg gctttcacaa 120
tgtctacttt ttctcccttc ccatggggag cgcaaggcga aaagcaacgc tacgtccaag 180
ctcgcgggtg cgattattgt ctctcttgtg atcattcttc ttcta 225

<210> 3702
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3702
gagacaacga aaataatttt gtatttaaaa gtggctaaac agcatcagga aggcaagact 60
ggaaaaatta gtttacccga tgacgacccc gaggcgataa acatcatggt ccagcatctg 120
tatgggcaaa actacgaaga caccagacca gatttggaag actatgggga ggatcgtgcc 180
ctactaaacc taaaagtata tgcgattgcc gataaataca tatcacttc tctcgaagag 240
tcggcgaaag ctgcattc 258

<210> 3703
<211> 270
<212> DNA
<213> A.fumigatus

<400> 3703
aaaaggccaa atcccgggct tattgttccc tttcatcggt atctcccttt cattccaatc 60
ccgatcccga tcaatggttc gccaacatct ttatctcttt caacccaata taatatcgtc 120
attatggtca agctcgctat tctccctctt gctgttcttg ctgccttggc tccctttgcc 180
gccgcagata actgtaagac tgggctcaac tactgtggtt ataacctgct gaacattggt 240
atgcaaacgt tccactcccg tccgacttga 270

<210> 3704
<211> 291
<212> DNA
<213> A.fumigatus

<400> 3704
ttaactcaaa aatatagcag tcgatatttc tctccctgtt ttctcacgtg gtcattgaat 60
caaagtagta ccattggatg ttttcacaag cttgagtgtc tagatctctt cgatcaccta 120
acagtggata atagagttta ctacgtatgg gtgaatcatt gctttgaatg taaactcaca 180
tgcccactct cagagtctag ctatttcgcc tctttgtcat acactactgg agtccattgt 240
tatagaaggt ggcgggagtt agaatcaaaa agttatcctt gggtgctata g 291

<210> 3705
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3705
tgcgtccccc tgaagcagcg gggatggtcc gatcaggcat ccgctcccag ctacgatcgt 60
attctgtctc cgaccgccgc aaccgacgcg acctgctctc agacgacgta tgacttcgca 120
gcttcgagtt cggcggtgat atctcgtccg tgtaggcgat gccgtactcg tcgacataga 180
cggccagcac gggcttcatg a 201

<210> 3706
<211> 393
<212> DNA
<213> A.fumigatus

<400> 3706
tgtccggtcc ttacgatcaa tactcccagc agcaaggcta cggccagggc cagggtcaat 60
accagcaggg aggatacccc caaggtggct acggacaaca gccttactct agccagcaat 120
acggccagga gtatggccaa cagcatggtc agcaacacgg tcaatacgga ggctctggtg 180

actactacaa ccagcagcgc aattacaacc aggatcagta cggccagcac ccgcagagcc 240
aatacggcca acatggccaa cacgaccacc agtatggtca acaacaccaa ggccaggggt 300
catacgggca gcctgggtat gtcacctgcc ccaccactct cttctcacag tcataaactt 360
ccggtaacat cagctgacat tttctctctc tag 393

<210> 3707
<211> 333
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (118)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3707
catcagctga cattttctct ctctagctac aatgaccaga acgctcccgg tggagcccaa 60
gaaggcgaac gaagactccg cggtgctatc gcaggcggtc tcgccggtgg atttgcangc 120
cccaaaactg accaccgtat tctccgtacc atcggaggcg ccatcatggg atccgtcctg 180
gaagacgccg tcaagaagca caagcacaag gatggttcct ccggacacag caactacggt 240
ggctctcagt acggaagtca ccaaggcggg catggttcgt caagcggtgg tggtctgatg 300
gataacttgg gcggcttctt caacaagaaa taa 333

<210> 3708
<211> 435
<212> DNA
<213> A.fumigatus

<400> 3708
gtcaatcaca cattgtctcc tcttgagagt tccatcttat ccactttcta ttattccaac 60
acaataccca acacaataat gtccggtcct tacgatcaat actcccagca gcaaggctac 120
ggccagggcc agggtcaata ccagcaggga ggatacccca aaggtggcta cggacaacag 180
ccttactcta gccagcaata cggccaggag tatggccaac agcatggtca gcaacacggt 240
caatacggag gctctggtga ctactacaac cagcagcgca attacaacca ggatcagtac 300
ggccagcacc cgcagagcca atacggccaa catggccaac acgaccacca gtatggtcaa 360
caacaccaag gccaggggtc atacgggcag cctgggtatg tcacctgccc caccactctc 420
ttctcacagt cataa 435

<210> 3709
<211> 606
<212> DNA
<213> A.fumigatus

<400> 3709
aagatgatag gcaatctcgc cttgttaacc tggcttgtgt tttccttttt gaagtttggt 60
tcctgtatct tcattgacgg cgaactcaat ctatatggat tctctccgta tcctggcgat 120
cggactacag aaactaacac actgactgtc agtgttcacg ggctggtcca tgctacagct 180
agcacgttta cgcatacgtc agcagtacct tccagaacta tgtctgtagc cgattcaata 240
tcctcgacag ctccctcttc aagcattagc ggagcgtcga gtctgggatg gcatcccgtg 300
gctatcacac tcacaaaaaa accgactccc cactggaatt ataacataac tgtgccgaag 360
agttctgcca agtattccag ctctactact ccgactttga ccgtgagcac ggcggaatcc 420
agtgcacgtg aagcctccga catggagacg accggcttct ggaaagacca gagcacacca 480
acaacaataa cagccctttc taataacacc atgatatcat ctagcgctga tggttccagg 540
tctccgctta ttttttcggc ggtcatgcta ttcggcgtca atcttttgac tggagttctt 600
ttgtga 606

<210> 3710
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3710
tgttggaaaa tgagcttgtc ggatggggac gaagcttgtg agacccggtt cgataattgg 60
tctgaagcga cccctattct ccaggataat tataagtatg tggtcatccg aaacatcacc 120
cattttctgc acacatccac ttccatggcg gagtatcatt tatatcacat ctttcgagga 180
cagaataagc tgtaa 195

<210> 3711
<211> 1428
<212> DNA
<213> A.fumigatus

<400> 3711
agcagttttg ccgcggactc ggattggcag tcggaggaat cgggacgttt cgacgacgca 60
gaggaatcta tgttagacga gcaacctccc cactcgcgtt cggcgcactc atccaagcgg 120
cgccgttcaa atgattggcc gctccaaccc ggcgaagaga atcctgcacc aaaggacaat 180
ggaaatcatt gctggccgtt caagaactcg agttatggct caccgcgtcg aactggacgg 240
cagggaggtg gcggggataa atcgagccgt ggccgaccgt ctcgcttcat cgaggcgcac 300
atgaacgaca gcgtgagcga aaagccgcct agtatcttca tacgcggtga cgcgggcgca 360
tccgagcaga atgattgcgg tgcaggtcag aggcaatccg gtatctttcg gtttggaagg 420
gcgattgcat cggcgttcaa tccgtttggg gtctggggga atgtgtctga tatctggcgc 480
ggctcgcagt ccgagcatcg gccggaagga gacgcgagag cccgggcgga gaaggcgtat 540
gcagagctta agaaggcagg ctacaaggga actgtcaagg gaagctatat gcagggcatg 600
cagacgagtg cgcctgttgc ggaacagcat tctcggagag cgagtcaggc gcagtcggat 660
ggcagcaaga ctttggggcg tcactcgaga cagaattcca cagaaggata cgggtctgga 720
agctcgattc ggagttcatt acaggaacta cgcaaggcca agtcgtcgct aggcattccc 780
tacatcaagc gaggatctga ggacttggat cgccccgaag tgcgcaaatc gcgatcccgc 840
aaggagctac agaggcaggc caagctgctg aagcgggtca gtgaccttga ggggaagctt 900
gaacgtgcaa gacgcgagct gcgcgaattg acgggcgaaa aggaggagga gccggtaagg 960
acactctgcc aggagagaac ctatcatcgg ccgtttgtgc ctggagccct cccaacgctt 1020
ccctcagagc gattctacga aaataatgcc acaacagtgc ctgattcgca agcagtcgag 1080
ctagcggctt tgtccgagac gtcagggaat atccaacgaa tggctgagag ccagggaaac 1140
ggattggcga ctgtggaaag cccatccctc aagagaaagt cgccggaccc aaagtcagtc 1200
cgtgacaagg tccatcaaat gactgaggat tctcctaaca agaaatctct gtatgaagaa 1260
cccgcccgtt ctgacgaaac caacacaccc cgaaaagcga ccaaaatggg aaagagtgac 1320
agtcccggat ctgtcgaacg gaagcgggct caggatcaat cccagccaga agagcacgaa 1380
tgtccaggag tcctcacctc ggagctgcca atcgccgtta ttctccac 1428

<210> 3712
<211> 372
<212> DNA
<213> A.fumigatus

<400> 3712
ctgaaggtcg ccgagatcaa aatcattggg agccctgatc cagcagatgt ccataaaatg 60
ctcgtgcctc agctgcgcag tgtgaaaaag gccgccgatg agtgtcacac ccgtgctctc 120
cagatggaca agaaattcga ggaatggctg tggttcgcag ccgatctcca ttcgaactgt 180
gtccaagagc agtccagtaa tgaagaaaga ctcttggcca caaaagtcaa catgtctgtc 240
gcccaacggc agttcgactc tcagaagaac accgttgaag aagcgaagaa gatatcggag 300
aagctaggaa agcagctcga tgtcgcttct gaagcctaca agaaggcttc cgatagcttc 360
ccttccgggt aa 372

<210> 3713
<211> 348
<212> DNA
<213> A.fumigatus

<400> 3713
cctaagggcg gatccggcca gcctcgtggt gaagactcta ctctcctctt actttccgct 60
atcttcttca ctactggagg actaaaagac gcgaaaatgg tggaccagaa ggaattgctg 120
gctgccttag aagtccaaca taagcgagac aatcggcctg gtatcaccag aaaggctgtc 180
gctgaaatca aaagctcagc tatctttcag gtgaactggg aagaccttct caagtcagct 240
ccgatttcaa tcaacgcgct cggtgcggct cttgtggcct cctcatcgga gacagccacc 300
acaatcgagt tcacgccccc gaagggcggc ttcaagttct tgcagtaa 348

<210> 3714
<211> 390
<212> DNA
<213> A.fumigatus

<400> 3714
ggatgtcgtc aacggaggca aaaatgccca aagagtggag aggcgcctcc tccacctccc 60
ccagcgcccc ccaagcccaa gagtcctctt ccccaataca gcgatgaccc ggcatacgtt 120
caggtcaagc cagccatggt ctatctgaca gtcctgaatg ccctgctgac ctcagggaag 180
gacggtggtg tcaactggga gagtgccgtt gattcgccag ataagccgga caagactgct 240
tcctttacct ccaaaatgct gaaggatacc ctggagagat tcgaggagtc ggctactgag 300
aaccctcaca gtcagaagct cctggaagtt ctccagaccg ctactgaggt aaagctgttc 360
cgagacagaa atcatggtcg tctctcgtaa 390

<210> 3715
<211> 1128
<212> DNA
<213> A.fumigatus

<400> 3715
ccgactcagg gcgaaaagaa attggattgt gatggcactc gcctgttggc acagatgaac 60
caatgcattg caaatgctcg cgagggacga cagcttgcag gttcgcccga acggttggac 120
aagagcatcg aggccttcgc ggctcgagtg ggcccttcca tggatgactc cggtctcagg 180
gcgattgctg cagttggcca acagcggcct cacgtcctgc gcgaatcggg tcatcaaaga 240
gtggtgacct ggccgcactt cgacgaagga aacgagtatt taaagcagga cgtgcaggtc 300
tcccacctgg tcgacaatct catctccgta gtcagtcaga cgtgtttccg ctttccacag 360
atggacatcc ttcagatcgg cacattggga ggttctgttc actctgtact gagggagatg 420
ggcaggagct tccggtcatt cacctatgca gcgccctctc aaccgacaga tggacctggc 480
cttgagcggc ctggcgaggt gcagcacaga accttcgatg tcgatcgaaa tcccctcgag 540
cagggctacc aggatcatgc ctatgatatg gtccttttca ccaccgcgag attccccta 600
gaggttgcag tggcccatat ccgtcgcttg ctcaagcctc gaggattcct ggtcttaatg 660
gtacgaacga accctaatat cacgcatttg aatcttttat tcggtcatcc tgcgagatgc 720
actgagacat gctccggtga gcaagtgatc actaaggagc actggattga gctactgtct 780
acaaacgggt tccgggtgga gtcgctcgat gcacccccg agatggcagg ccaccagggc 840
ttctctctcc ttctttgccg tgcatcgggc gaatacaaag aaccatcgcc tcgcggagac 900
ctgctgctgg taggcggtgg cgataaaaat gcagactgcg tcatatcaga gcttgctgaa 960
ttggtgcaag gcaaatttga ccaggttctt cgatcgccat ccctggatct gatggagatc 1020
accgttcggt ctgaactgac ggctctaatc ctggtcgacg atcaagatct caccgaagcc 1080
agcctgagcg ccctgcggag actgattacc cccacaagcc gggcttaa 1128

<210> 3716
<211> 246
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (84)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3716
cttcgtcaag taatctactt atacaccacg ccaatgtccg aggacacagc tcaggatatc 60
tccacactgg tctcacagga gctntccaag acccccctacg agtgctcttc tctcacccgg 120
ctcagcggag gaacggccaa tttcgtctat cgagtgttct cgctcggcca ctccaggatg 180
ggacgaaaac cattgttatt acacacggag aggaatttgt tgcttcgaat cgagacttca 240
agctga 246

<210> 3717
<211> 516
<212> DNA
<213> A.fumigatus

<400> 3717
ccgaagctgt tcgaagagac tattttaaaa gccttgaatg acttccccgc tacaactgat 60
acggacacgg acaacaatac cagctgcaca gtcaagaccc ctcgtctggt tcaattcaac 120
cgtgacacta atactcagat cctcgaagac ctgcccggag cgttggacct aaagtctttt 180
atgctccttc ccacaaactc gcaaaatgtc tcgcgcgaac tggccgcgtc tattggccgt 240
gcgttgggga aatggttgct ctctttccac acttgggcct cagaagagtc tcagaaagaa 300
ctggccaaga cgatggagaa gaatgaggtc atgcgcgata tcaagttcat ggtcaactat 360
gacaatgtcg ttaagatggt tgatcagttt ccaaatttgc tcaaagagag ccagcatatc 420
cttggcgaag taaagaatgt ggcagcggcg gagctgggtc ggaaagatgg gaaggagttt 480
ggaataattc acggagactt ttggtcagga aagtaa 516

<210> 3718
<211> 516
<212> DNA
<213> A.fumigatus

<400> 3718
ttcacggaga cttttggtca ggaaagtaag ttaatatatc tgtttacctg gcgtacgttc 60
gatgagattg atgagaccag cgttttgata ccaagcaccg cattggatca gcaaaatgat 120
attcctctct tggtaacgga ctgggaatta tgccactgcg gttcccgagc gctcgatctg 180
ggccagatgg tggccgagct ctaccagctc aagcattttt tgaacatcga tgcaggagtc 240
tggctcattg aggggctgct tgatggctac ggccccgtgg atgaagacat ggctttccgc 300
atcgccatcc atatcggcgt tcacttcatt tgctggggca gcaccattcc cggctggggt 360
accaatgacc aagttgaagg agtggtcaag cttggaagag acctcgttgt caagggctgg 420
cagaaggatc gggactggtt tggggaaggt tggttgaagt gcttgttccc tgtggcttac 480
aactggagcg atcagaaaga agacatacga gcatga 516

<210> 3719
<211> 1383
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (6),(1261)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3719
gattcncagc cagcaacaag cccgcagtct ccaaatccca aaatcgctct ctcgggcagt 60
tttctcaatg gggtcctctc caagcacgcc gtggttgacc attctatctt ttctacgcct 120
ttccgagggc aggaattcgg ccatcagcaa gaagaaatta cgaacgcagg tccgcggtca 180
cgagcaccat ctttaggatc atactcctcc agttacgtca taaaagctcc aacgagtcct 240
ttggttcacc aggcaatcaa cactgatctg gacttctcac tgaaaagcga gttcagcgag 300
catcctccag cttcggatat agccagtcgc cgtcgcacac tgcctccaga gacatttcgg 360
aatcttcagg attcctctcc gtcttattca cgtgtaataa acatcaacac tggtcatgcg 420
cctggaagct ttcacgattc attatcgttc caagcgcgtc aatcacgaaa accattgacc 480
tcgtcataca gtcttcaact ggcctcatca gtccaacatc cgtcctggag agccaggaga 540
ccctcacttg ccggcgaact atcctgcaag acccatgctc cgctggtagg atcttacgag 600
gagtcgatcc tccgcggaag aatgtctatg aatccgtcca agccactcga cttcactgcc 660
cagattggtg tgctaggcaa aggaaactgc aagtcgagtc tcaaatgccc accacacgtc 720
acggtgccct tccctgcggt cttctacagt taccctactt ctggaaaggg gcgctccatt 780
tcagacgata atcctagccc ctacgtgggt ctgattgatc tcgagaattc cttacctaag 840
gataactctt acgtcactcg ccgccaccgg catcaccgaa gccctgctgg tgcatccaag 900
ggccaaagga ctgatgtcga cgttggaccg gaatatcaga cccaggaagc tctacgcatg 960
agggagaagc gaaatcgacg agccgattca cccaaatgcc caccaggcgg atgctatcgt 1020
ataccgcaac aaggccagct gcaaatcatg ataaaaaatc cgaacaagac ggctgtcaaa 1080
ctcttccttg tgccttacga tcttagcgaa atggagcctg gcaccaaaac tttcatacgc 1140
caaagaagct actcggcggg ccccataatt gatatgcctt tgtccgccag gaagaacttg 1200
gggactgatc gaccggaggc ttccttgagc gtatccgaaa atcccaaaga caagcctgta 1260
ntacgctatt tgatccactt gaacatttgt tgtccttcaa agggtcgttt ttatctctac 1320
tcgagtattc gtgtcgtttt tgcaaatcgg gtgcctgacg gcaaagagaa gttgcgatct 1380
taa 1383

<210> 3720
<211> 345
<212> DNA
<213> A.fumigatus

<400> 3720
gagcgcgtgt ccttccagcc cccgtggttg aagacggcgt atctcaacgg aatcttatac 60
ctgatggtag ctacgttccc ggatgtctgg acgacgatct atcatgaatc cgaatcgatt 120
ggatcgctga actatctttc tctcacagtt ggaatgacta tcgcaatgca gctggggact 180
cggatcgccg gccgcgttta ccaacgactg tgtgctaata atggaggggt ggctaggcct 240
gaatttcgct tgcccattct ttgtgcagga gcatgcattg tccccatcgg actcttctgg 300
tacggttgga gtgcccggca gagcattcac tggatcatgc cgtaa 345

<210> 3721
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3721
cggttgattc ccttctccga tcgaagtaat agtcgcgatg gaatggccaa gtatattggg 60
ctacttttcc aggccaatgt ggctggttac gtggctttct tttctataaa tacggtcatt 120
aacttgctta cttgttctat gacctacgtt gtctgcggca agaaaaacac agcatgtccc 180
gttttcccag cggaacttga ttaa 204

<210> 3722
<211> 969
<212> DNA
<213> A.fumigatus

<220>

<221> unsure
<222> (25),(31),(46)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3722
caggaaccac ccaccagccg agacngtcaa ngccaaaccc cacagntcgg cctcaggctc 60
ccacgcctac tctctctttt tggcttccgc gtttgttgtt cgcttccccc actggattca 120
acatccaggc tcgtcaacgc ggttatctca tgtcctggat ccaatggtgc accatcagag 180
ggacgccaat ttctggccat gtcgatcccc ttatcatcag cagcaacccc gcgtggcact 240
cgcagtctga acgttcccgc aacgcagaac accgcgcccg tcatcaaatt tcgatgcctc 300
ttcactcatg atgtccgacg caaagcgaag cgctggcacg atgggttcct ccgctatcat 360
acattcaata agcgggtcat ggtctacgat accaccggct attttatcgg agatttgcat 420
tggcgacagg acgacgggat tcaggacgga gacgagctgg agctggacaa aggcgtgctg 480
atccaagttt gtgagccggt ggagcagaca cagacagacc tgtcgacgct gtacaacaat 540
aagaagaagg cgcaggattc accgacccaa gcagcggaac cgtcagctcc cacacttcgt 600
gcctctgctc cggtccggtc ctcgatatcc tcccaacagc cgcggtccct caatgatctc 660
ctaggcattc gaaaaacaca tgctggcttg tctgtttcgc cctacgagga acgtcaacga 720
cagaaacaga aggaagacaa tcggctagcg tctgagagag cggcaaagcg tcaaaagacc 780
accccggctc atgtaccgac tgagcaacaa ccaagacgct cggtcgccaa tcccccggtg 840
ctcatcgatt tgtctgattc accagatgag aacgcgccag aaagacgaca gaagccgaac 900
aaactcccag aaaacgtctc tctgcagaag aagaacccag ggtcaaatgg cctgtgtact 960
tcgccacgg 969

<210> 3723
<211> 267
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (97)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3723
ctggtaagcc gccgatgggt ggttctagag tggccgaagc tgaccgaggc tgatagctac 60
tccaagggtc tggactcttc tcctgctcct gacgaanccg ttactatcca gctcaatcgt 120
gctctcacat ttctcaagac tcatcaattt gacgcagccc tccacgatct cgagacagtc 180
ttggcagact ccaatccctc cgaaaaaacg cttttccgca aagcccaagc tctctaccat 240
ctgcagagat ttcctgaatc cgggtga 267

<210> 3724
<211> 447
<212> DNA
<213> A.fumigatus

<400> 3724
cttttagcag acaaaccaag atcgctgatg gcaaggcttc aatacattaa atcaagcatc 60
gttatcagtt acctgcgttc cgtcaacctg agcgtacatg ctccttccaa cagcatgtcc 120
tgtccatacg acaaacccat agttgacatc acccagtatg tattccacta ccagatcgac 180
gaccaaaagg cctggtcagc tgcacgcgtg gccctgctag acgccatggg atgcgccatc 240
gaaaccctct ccacgagcga agagtgccag aaactactgg gcccgactgt gccaggtaca 300
gaggtcccga atggcttccg actaccggga acgaatctca gtctggaccc ggtcaagggc 360
gcattcgaca tgggcacttt gatccgatac ctggatcata atgatgcgct aagcggcgca 420
gaatggggac atccctctgg tagctag 447

<210> 3725

<211> 603
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (336),(377),(481),(552),(585)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3725
gcggcgcaga atggggacat ccctctggta gctagactct tccttcatat cggagtgagt 60
agcactgacg acaggggggaa agataaccta ggcgccatcc tcgcagtcgc agactggcta 120
tgtcgcgcct ccgcatcagg gagatacaag cataccgggc ccccactcac gatgcgcacg 180
ttgctcaccg cgctcataaa agcatacgag atccaaggct gctaccagat caggaacgcc 240
ttcaacgcct tcggcatcga tcacgtcatc cttgtcaagc tggcctcggc cgccgtggtc 300
gcctggctcc tcggcctaac agaggaaaag acgcangcga cactctcgca tgtctggatg 360
gacggccatt cgagcanggt ttaccggacg ggcgcgaaca cgatcccgcg gaaaggttgg 420
gcggctggag atgcatgtat gcgcgccgtg catctggctc tgcttgtgcg tgctggacaa 480
nctggagcac cgacgccgct gagttcgttg ccctttgggt tctatgcccg gactttgggg 540
cgaatgggtt cnaaatgcaa cggccgttcg gggtgggacc atcanaatac cttggtcaat 600
tga 603

<210> 3726
<211> 1026
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (796),(959)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3726
gggtcctcca ttgcttcatc tccgagtcgt cggccgcggg acgagcataa ctcctcaaac 60
tcttctcgct ccgtgacacc gggttcagat tcgccgtcac ccgcgctgcc gaggcagccg 120
tctgcaagat caatgaggcg gcggctgatt cggctcaaga ggaaacatga gaaagtgtta 180
cagaagtatt attccaccgg cacatcgtat tccgaaccga tatcatcgct tgtgtattct 240
ctcgcatccg aacttggtcg ggaagataac gacctcctgt ggttggccat tgtcggcgtc 300
tctagcttgg aactcagtgg tcgtacaatg tccggtgttg gcatctccaa tccatcagag 360
tccggagggt ctgctggctg gggtggagag cggggagagc gcattcgtca aatactacga 420
gacgaagtcc atcgattgaa cccgcccgac ccgtacgagc gagaccgaga tatcagagga 480
gagatcaacg gcgtgatccc cacaaccgcc aaatcgccaa cagataagtc cattcgatta 540
tctccagaac cccgtttcat tctaatccgc cactggtcac tctacgaaag catgctacat 600
agtccctatc tggcatcacg actacatgtt tggaccgaga atggtcgcaa gcgattgcac 660
aagctccttg cgaagatggg aatcagcttg agccagtgcc atcagaacta cactcacatg 720
gatatggaac tgaagcgagt gctgcggcaa cggcttctca agtatgcacc tatgtacggc 780
ctgaaaggac tcgtcncgcc cgacgcatct ggtcatgtct ccttccgcga ggggtggggc 840
ttctggcgct gctggggctg gaaagcctgt ctttccgcaa cggacgtggg cgtcattata 900
ggcgcgatcc tcgaggttgg gccaaaaaga aacccccccgc gccaacctgg gactcaatna 960
cgtctgtctc ggcccacggg gccctaccca aggggaacgg cccctgatgg ctccccccga 1020
ttctga 1026

<210> 3727
<211> 957
<212> DNA
<213> A.fumigatus

<400> 3727
cccaatcaaa agccacaatc tgcaacgata ttcaaggaca tgggaccacc aagatcaggt 60
gcttcaaaga aacccacatc atcaaagaat gcaccaggtc gcgatagccg aaaagaaaag 120
aaacggccgc agcagagcaa acaggaaaca gcaacgccgc gacatgacca aactggtcag 180
gatgggaagc agatcgatct ctgcgccacc atcccgctga ctctccagca actgctgctg 240
aacgtattca agacagcttt gcttacaagt gatgggccgc atgactatgg ctatgaccat 300
gagtgtcaaa gtgaacatag aacacaaacg cctagggcag acaccgacag cgaacctgaa 360
gctcggacgg ccgccccccgc gggcaaagat gaaatagata tcaagtctgt ggtccagacc 420
atcaagtccc attcgtataa tcgggatttt gaatcggcgt atgctgatgc caatgaggac 480
ttcttgcgcg cttatgcgct gcgatggagt gcgtcccgcg cgctggggta cgcggggatc 540
ttcaagtctg tgttgcggat gttgttagat ggaggtgatg gagctcaggt ccaggtgaag 600
gcgaaggaga agcagatgca ccatatcgtc tgtattggcg gcggagccgg cgcagagatc 660
atggcgctgg cgactgcctg gagggatatg atggacgaga acgcgctctc ggatagagtt 720
ggtacggtta cgttggagga cgaaagcggt ggccagagtc agaatcaaaa ccaagataca 780
gcggtagctg tgacctcgtt tccgcggcca gggatgactg ttacggctgt ggatatcgcc 840
gactggtcaa gtgtcgtgga ccggttggcg cggacaatcc ggtctcccgc tgttccggca 900
cggactctca tcttgcccat tgtgactcag cccgaggcag aaaagacgcc cagaaag 957

<210> 3728
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3728
catagtcacc tgagagtgac tggtggtgag gtcggagccc agtccgctct ggctcccaag 60
attggtcctc tcggtctgtc ccccaagaag attggtgaag atattgccaa gagcactggt 120
gactgggtaa gaactcaaaa ggagtcaaaa gatgaagagt accggatcgc taatatgatt 180
tttgtgcgac cttatagaag ggtctccgtg tga 213

<210> 3729
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3729
gaattgatcg atgatcgtgt cccaatgcct cgattcatcg tttgtgacgc cggcggatct 60
caagcgcgtt tcctcttgtc caagttgaac ccctctacta cacatacgac aggaggttac 120
ggtggaggcg tgacgtcgca gactatcttc actgatgatg tctcgttgca gacgttcatg 180
gaccatttga tgaagtatgt tatccgtaaa tgttttacaa atgtcatgaa tgaggctaac 240
ccaccaatct ag 252

<210> 3730
<211> 378
<212> DNA
<213> A.fumigatus

<400> 3730
aagggtctcc gtgtgactgt caagctcacc atccagaacc gtcaggccac ggtctctgtc 60
gtgccttccg cttcctctct ggtcattaag gccctcaagg agcctcctcg tgaccgcaag 120
aaggagaaga acatcaagca caacaagtcc attcccttcg atgagatcgt tgagattgct 180
cgcaagatgc gtcaccgctc tctcgccaag gagctccgtg gcaccgtcct tgagatcctc 240
ggtactgctt tctccgtcgg ttgccaggtc gatggccgca gccctaagga tgtctctgac 300
gacatcaagg ctggtgagat cgatggtaag tcctgttgtc ttcacccacg gggatgggcc 360
ggatccgcgc ttaagtat 378

<210> 3731
<211> 729
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (36)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3731
acattgcgcg gttccttccg gctcctgggc gagaanagga ctgcgcgggc ggtacatcat 60
gcccggcaag gcaacctgcc caccgcccta tccatcttca catcggtgct taaagctcgc 120
cgttccctcc ccccacctcc gcctgacgcc aaacccttg tcctcccatc catccccaaa 180
tcaactcgag acccccttcgt ctcactctac aactctatta aaaccatgtt ggtccccgcc 240
gaatacccc ccccccctccc atcgggcgac gaacctccgc tccgcactac cgcctccgcc 300
tgcgaagagg caggcctcat gacatacatc ggcgagatca tctacgcgtc ctcctccagg 360
gaaaccggtc tcgcctggac gcgtgacgca gtcgacctgg ccgaatccac catccttgag 420
ctcggtggct tcgaagacca taacccccaa caccgctgcg ccgagtgtct ccgcgtgggt 480
ctggagaatt ggaagacaat ggtctcccag ctggttgcgc aggcggaaag agaggaacgc 540
gagagcatcg agaaagccaa gcattcctgg ttcggaggcg agaagcagat ggaagctaaa 600
gcccttgagc gaaagcgatg ggaggccgag cggttgattc tcgacgatag gatcaagaaa 660
ctctggccta tcatcgacgg ggggtcgggt ttggagggta tcgcgcccaa tagttctctg 720
tttatttga 729

<210> 3732
<211> 315
<212> DNA
<213> A.fumigatus

<400> 3732
catacatcgg cgagatcatc tacgcgtcct cctccaggga aaccggtctc gcctggacgc 60
gtgacgcagt cgacctggcc gaatccacca tccttgagct cggtggcttc gaagaccata 120
acccccaaca ccgctgcgcc gagtgtctcc gcgtgggtct ggagaattgg aagacaatgg 180
tctcccagct ggttgcgcag gcggaaagag aggaacgcga gagcatcgag aaagccaagc 240
attcctggtt cggaggcgag aagcagatgg aagctaaagc ccttgagcga aagcgatggg 300
aggccgagcg gttga 315

<210> 3733
<211> 1074
<212> DNA
<213> A.fumigatus

<400> 3733
catggttttt ttgttgaaat gttgttcgtt tccattactg ctgcattact gctagctgtg 60
cttgacaccc tgccagcagg aatgcaagcc caggatgccg agggctggta caaggcccat 120
ccgggcatgg cgcgtatcag ccaggtgaac caagatacgc atcaaattgt cgatgaattc 180
ggccgtacgc ggttcttcca cggaaccaat gtcgtgatga aggagccacc gtggtatcgg 240
ccgttcgagt gggcgcctgg tgtctcatcg tttggcgagc aagatgtcca gaatctgcac 300
gccttaggtc tgaacattgt gcggttaggc cacagctggg ccggcgcaga acctgtgcgt 360
gggcagtaca accagacatt tctagatatc atgaagaagc agaccaagtt ggctgaggac 420
tacggcctct atgttttggt ggacgtgcat caagacgtcc tggcgcggca gttttgtggc 480
cacggcgtac ctgatgtaag tagaatgcgt ggccctgttg gcaccgctgc gactgacatg 540
gctgtgcagt ggtttgtgaa ggaggactgg gtaccgggct ggaagatgta ccccttcct 600
ctcaagccaa caccgttccc cgtggataat aaggggttcc cctcgccgca gtcgctttgt 660
ggcaccgtcg actggtctct gagctacaca tcggcggcag tgtgtaatgc atttgggcga 720

ttgtacaaca actacgacgg gctgggcgat gcgttcgcgg cgtactggaa aaagctggcg 780
tctgagtatg tcgagacgac caacgtggtc gggtataacc tgctgaatga gccgtgggtg 840
ggcgactcga tggccgaccc gaccctgctg gtgccagggg ttgccgacca caaggtcctc 900
gaaggcctct ggaaccgcgc cgcaaagcag atccgtaccg tcgacaatga cacgctcctc 960
tggttcgaaa gtgccaccat tgaactctgg tccgggttca acaatgtccc tcctgggaaa 1020
cggctcgact tcagtccact cattcccccc actacagccc caccgcagct gtcg 1074

<210> 3734
<211> 255
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (41)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3734
gcgcggtacc tgccagctcg gcggttgaag accagcagcc ncgaagccca ggttcacaac 60
aacgacttca tcggcgccgc ctcgtataac atcttcgtcg gagtttccgt tgcgaccatc 120
ttcggcgccg cgtttttctt cgacctgttc tggccggaaa gacacgagag taaatctgtt 180
cggctggcgt ggaagatatc tggggtggtg gtatccgtga tgatgctcgc gtcggctctg 240
accatgaccg tatga 255

<210> 3735
<211> 561
<212> DNA
<213> A.fumigatus

<400> 3735
ttgcctacaa gagccacgac acatacggac ttggttctcc gagctcgaga gatgggcatc 60
gaatccaaag ttatcccgaa cgcgtcaatc atgtccggca ttggctgcac cggtctgcaa 120
ctctacaatt tcggacaaac tgtgagcatg gtgttcttca cggagaactg gaagccgacc 180
tcttactacg accgggtcaa agaaaacgtt cagttgggtc tccacacatt agtcctcttg 240
gatatcaagg tcaaggagca atcgtatgag aacatggcta gaggacggag gatatttgaa 300
cctccaaggt acatgaccgt tgcccaatgt gcgagccaaa tgctggaaac cgaggaagaa 360
cgaaaggaag gtgtctttgg acccgacagc cttgcggttg gagctgctag agtcggcggt 420
cctgaccaga aactgggtgt gggcactctt caagaactgt cagaggtgga catgggaccc 480
gcttgcacag cttggggttg cttggaagaa aagcacatga tctggagccg atttatttca 540
aaaaaatttg ctgggggata a 561

<210> 3736
<211> 231
<212> DNA
<213> A.fumigatus

<400> 3736
cagttcttga agagtgccca cacccagttt ctggtcagga ccgccgactc tagcagctcc 60
aaccgcaagg ctgtcgggtc caaagacacc ttcctttcgt tcttcctcgg tttccagcat 120
ttggctcgca cattgggcaa cggtcatgta ccttggaggt tcaaatatcc tccgtcctct 180
agccatgttc tcatacgatt gctccttgac cttgatatcc aagaggacta a 231

<210> 3737
<211> 444
<212> DNA
<213> A.fumigatus

<400> 3737
caggcacctg gacatcgtcg ctgcagctca ccaagaacgg atcccgccac gggcacggtg 60
atctggaagg ccgggccccc tgtgcccaac gcgcccaaac actacggtct gacggcattc 120
gcggcaactc tgaacgagat cacgcccatc gaggagaagc gactgccggt gacggactcg 180
cggctgcggc cggatcagcg ggcgctggag gacggggatg tggaccgtgc ggagcaagtc 240
aaggtgcagc tggaggaagc gcaacgggcg cggcggcgcg agatggaggc ggcgggcgag 300
agctggacgc cgcgctggtt caagcgggtg gatgcggatg aagatgcgga ggatgtctgg 360
gccctgaagc cgggcaagga tggctactgg gaggaacggg cccggggaac ctggacaggt 420
gtggtgcccg tattcgaggc gtag 444

<210> 3738
<211> 489
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (68)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3738
ccggtcggta aaatgccagt gctgaacgag acgacgggcc agaagagcgt ttcgaccttc 60
aaggccgncg gcatgttctc gggccgcagc gaggaggtca tcactaaggc agtcgatccg 120
tacaacaacg agctgccgct agggctgaca ggcacctgga catcgtcgct gcagctcacc 180
aagaacggat cccgccacgg gcacggtgat ctggaaggcc gggccccttg tgcccaacgc 240
gcccaaacac tacggtctga cggcattcgc ggcaactctg aacgagatca cgcccatcga 300
ggagaagcga ctgccggtga cggactcgcg gctgcggccg gatcagcggg cgctggagga 360
cggggatgtg gaccgtgcgg agcaagtcaa ggtgcagctg gaggaagcgc aacgggcgcg 420
gcggcgcgag atggaggcgg cgggcgagag ctggacgccg cgctggttca agcgggtgga 480
tgcggatga 489

<210> 3739
<211> 360
<212> DNA
<213> A.fumigatus

<400> 3739
ctgtacggtc aggtggatat catgatcgct gggcagttcc tgcatctctt ctcttgggag 60
ggccaaaaac aggctggcaa gcgcattgtg gccctgtcca agcgtggaac ggtcttgatt 120
ggatatcagc agtcacggcg ccgagcccgg gagtatatgc gtccatgggg aatgatgttc 180
taccacaacc gagatagttt tctgcagatg tggcgggaaa tttcacttga gactagcacg 240
gactggaagg tggaagccac cgaggtcgat ttggcggaat gggggatgga ggccgaggac 300
actgaatgga tgccagcaga tcgccaaggg ctcaactttg ttctcacccg agtgcattag 360

<210> 3740
<211> 501
<212> DNA
<213> A.fumigatus

<400> 3740
aagaaaaaaa aatcctcgct aaaccccgcc cacagcaagc tctacgaagc taccacctcc 60
gacgaagacc atgtcaagct gtccgtctac tccccccccgg acctgcagcg tcctacgttc 120
gaggaggcga catcgcacga gttcacgccc acgcatatcg gcgcctcgtt cggccctagt 180
tggtcgacgc actggttccg gattcggctg acggtcccgc gcgatatgct cgacaaagaa 240
cgattggagt tccattggga tgcaaataat gaaggcttgg tgtggacgga tgatggtcgg 300

ccggtgcagg ggttgactgg tggcggggag cggatccagt gggttattcc tgatgcgtgg 360
cgcgatggca aggagcatac gttttacatt gagatggcgt gcaatgccat gtttgggaat 420
gcgcctggcg gcgactcaat tcagccgcct gcgccggata agtactatac gctccatacg 480
gcgcgcatta atgccgtcaa c 501

<210> 3741
<211> 456
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (215)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3741
gagatctcag atgatctcat ggaatgctgg agcacactcg tgacgcaacc aaagccatca 60
gctctccaac aagcccagca actggcctat gtcaaataca cagccccagt cccagatgca 120
gatgcagatg cagatgggac tccttcagga gaacacaggg ccaaccgcac gatcatcacc 180
tgcgagtcac gcggtctgat cctctccgca ggaantacag gcttccgcac ctgggaagcg 240
gccctgcatc tgggttcatt cctctccacg cccgccgggc aggctctcgt gcgcgggaag 300
cgggtcatcg agctcggcgc cggcacgggc ttcttatcca tgttctgcgc gaaatatctc 360
ggcgtgcaga gcatggtcgc gacggaccgc gagctgggcc tcatccagaa tatccgcgac 420
tgcagtcttc accacggggc tggaaggaca cgcgct 456

<210> 3742
<211> 369
<212> DNA
<213> A.fumigatus

<400> 3742
cccgaccggc ccaaacattt gtattattac ataatagttc aagcatttgc acaatggagg 60
aaatcggttg aaggcaatat gtcccttgga ttgtcttctg ttgaggatga cagtgacggt 120
cagaatgata attacgtctc cttcgacaaa ctggtcgcgc aatacttcca gcaggttgaa 180
ccccacctgc tagaattccc cgatggcagg accatgatca aatctgccgc tcaatcagcc 240
ctctaccaac gcatgttcaa cgaggcggcc ctgtggccga ttcctccccc gaactaccgg 300
gctcgtgttc taaagaatat cttgtctata ctggaagagt caatttcgga ccctgaagag 360
gatgtatga 369

<210> 3743
<211> 345
<212> DNA
<213> A.fumigatus

<400> 3743
cgtaacaaac agaatcagcc ttttatatac acctttcttt tcgaccctca agcgccgtcg 60
ctgaacgatg tctcctttta caaaagcatt catcgccaac tcgctccgct ccagagacca 120
ttgagcaaat ccacatcacc tgcaaatgct gcagaacgca tttctatgtc ggaaaatgcg 180
attgacttca acaaacgctt ttcaaccaag aacctcccgg tctacgatct catttacgac 240
cccacaaatc tgaccatccg atcttctatt ccgaacattc cggacctcgg atactactct 300
ctggagaact cgccattgtc ccgcgtcgag agtctcaaca attaa 345

<210> 3744
<211> 270
<212> DNA
<213> A.fumigatus

<400> 3744
ccaatcatca tggaactgga acgcagtgaa aatgtcatta tcgtcactca tcaggctgtt 60
ttgcgttgca tctatgcgta cttccttaat attcctcagg agcagagtcc gtggatggag 120
gttcctcttc atactttgat caagctcaca cctcgtgcgt acggcaccga agaacagcgc 180
ttcaaagctg acatacccgc tgtttccacg tggcgtgcaa agggcacctc agcgaagcat 240
caggaattcc ccaccgaagt aaagcattga 270

<210> 3745
<211> 1011
<212> DNA
<213> A.fumigatus

<400> 3745
ctaatcctta ttgctcacag gttcgttgac tgccctgggc acgatattct catgagtacc 60
atgttgtcag gtgccgccgt catggacgcc gccctttgc tgattgccgg aaacgaagct 120
tgcccccagc ctcagacttc ggagcactta gcagctattg aaatcatgaa gctcagccat 180
atcatcattc tgcagaacaa ggttgatctg atgagagaag acggtgctct gcaacattac 240
caatcaatcc tgaagttcat tcgtggtact gttgccgatg gctctcctat tattcccatc 300
tctgctcagc tcaagtacaa catcgacgct gtcaacgaat accttgtctc gcacatccca 360
gttcccgtcc gtgacttcac tgcttcgcct cacatgattg tcattcgttc cttcgacgtc 420
aacaaacccg gtgcggagat cgatgagttg aagggtggtg ttgcaggtgg ctctatcctc 480
actggtgtgc tgaagctgaa cgacgagatt gaaattcgcc ccggtctcgt taccaaggat 540
gagaacggaa agattcagtg ccgccccatc ttctcccgtg tcgtctcgct cttcgctgag 600
cacaacgatc tgaagttcgc tgtccctggt ggtctaatcg gtgtcggaac ccgtgtcgac 660
cctaccctgt gccgtgccga tcgtcttgtt ggtttcgtcc tgggtcaccg tggccgtttg 720
ccagccatct acactgaact ggaggtcaac tacttcctcc tgcgtcgtct gctcggtgtc 780
aagaccgccg acggcaagca ggccaaggtc gccaagctca ccaagaacga agtcctcatg 840
gttaacatcg gctctacggc tactggtgct aaggttatgg gtgtgaaggc tgatgctgcc 900
aagctcagct tgaccagccc ggcttgtaca gagattggag agaagattgc tatcagccgg 960
agaattgaca agcattggcg tctgatcggc tgggccaata ttgtcgcgta a 1011

<210> 3746
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3746
caaattatgt ggccgttgat aaactattac tggttgctac ttgctacata ccaggaacat 60
tcgccacaat acccaagaaa gtctaacggt ctggagatta tacaatttcg tgataatctt 120
cctctgatac ttggaatact ctcgcgatac tatctggcga gtgttaagcc tgctcaaaca 180
ctgaccggtt ga 192

<210> 3747
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3747
tcgtctgaag ttcaggccct gtggtggatg tctctcacac tcctttgtat ggatgactcc 60
atcgaggctg tggctgggac ttctgacttt gacctgcttt ctgcatttaa gtttctttca 120
acccctccac tgaaagcata tttttcaaga gcaacagcaa atgaagttga cagacttaga 180
aggcttgcat ggtgtgtata caggaaaaat acgtga 216

<210> 3748
<211> 183

<212> DNA
<213> A.fumigatus

<400> 3748
cagtggttag cttcatcatc accagtcact ttcgtctact accatcccct agatgactac 60
gaatttgccc agaagcttaa ctattctgtc ttgagagatt atacatatct cgtaacagta 120
tcacgagtgt ggtatataga ctatattaac agaatatctc tcctagacag aaatcagacg 180
cag 183

<210> 3749
<211> 555
<212> DNA
<213> A.fumigatus

<400> 3749
catgcgctga tctcggcccc ggcggtgaag actctgtaca cgaacgagtc gacgagtggc 60
gacacccata ttccttctct tgaaatcagc tatgccagtc tcgccgccgt ggaaaatttc 120
tttctgtcct catcaatagt gaccgagtgg gttgtaggga actttatcaa cgccgacttc 180
ggtgtcgccg ctgctctatc gggcgacgtg gaccttagca accggtttga cagaatggcg 240
actgccatga cggattatct gcggtatggt ccgaataccc agtctgcaca gggagagata 300
tatcagaccg agccatttgt attcatccgc tggggctact tcgttgttcc gattattact 360
gaggggcttg cgattttgtt cgccatctcg actatttaca acaatcgccg gagccgtcgc 420
gttcccctgt ggaagtcttc aaccctcgct gtattggcct gtcagcatga ggcgggcctt 480
ggacttctac agaccagcag caaggatatt aacgagatcc aacatgaagc aaataaggct 540
gaggcacggc tgtaa 555

<210> 3750
<211> 777
<212> DNA
<213> A.fumigatus

<400> 3750
agacttatat taggtttctt tttcttcttc ctggctgcct acatcatctg cagcgagcta 60
gtccgtgcaa aaccctccaa aggggaaatc ttggtttttc ctcgagggaa gataccggca 120
tttgtcaaga agtcgcggcg cgacggcgat ctggaaggag ctccgacctt cgagaagcag 180
cagcttgata atgcgggtca tgacagcacc gcggcaatcg tcaagcaaac ctcgatcttc 240
cactggcaag atgtatgcta cgacatcaaa gtcaaaggag agacacgccg aatcctggat 300
catatcgatg gatgggtcaa gccaggaacg ctaacagcat tgatgggtgt gactggggct 360
ggtaaaacat cgctgttgga cgtcctggct aatcgtgtta ccatgggtgt gatcacgggc 420
gagatgctag ttgacggtcg catgagagat gactcctttc aacggaaaac tggttatgtt 480
caacagcagg acctgcactt ggaaacaagt accgtccgcg aggctcttat cttcagcgct 540
acgctccggc agccagcgag cacaccgcac aaggagaagc tagcctatgt tgaggaagta 600
atcaagatgc tgaacatgga agagtacgcg gaggcggttg ttggagttct tggtgaaggc 660
ctccatgtcg agcagagaaa gcggttgacg attggtgttg agcttgccgc caacccggcg 720
ctgctctgct tcttcgacga gcccacttct gggtctgata gccgaacacc tggttca 777

<210> 3751
<211> 1050
<212> DNA
<213> A.fumigatus

<400> 3751
tgtctctccc tagatgttga atctacaact cctgaaggat cgcctgcacc taattacatt 60
ccactgggag gttcgcagca gcagcagcag gcgaatggcg catcctcgac gactcccgct 120
caagcagcgc ctgacacttc cagtatcttg aaagctctgg cagatatggc aaaacagaac 180
acaacgacgc cagccgctcc agcgacgact aatccactaa atgcattgaa catgcagggt 240

acagtttcac agcccgtgac ctcgtccgta gaccaggctt cacaggttca agctggacaa 300
tctggtgtaa atccttatgc cgctggcact atggcgacgc cgttcgcggc tctgaataat 360
cttgctcaga atccggcatt aatcccgtct caaagccaga gtcagactcc tccaaaccca 420
ctcgctgccg cggccaaccc cctggctgca ctgctgccgc aggcgacctc agccgcagct 480
cagccaactc ctagtatagc gccggatgct ctacagcagc agctccagct tttgcaactt 540
ttagccgcac agggaattcc gcaggagcag tgggccactg ccctgcagat tctcagcttg 600
tctaatgcta caaacatggc caatgtgaat cctgggcagg cagttggctt caacctaccg 660
ggtcaagcag ctgctgcctg gggtagccgt ccagattcac agtcacgtga ttttgatcga 720
ggcgatcgtg aacgagatcg cgactacatg cgctctcctc caggccagta tcgtcgcaga 780
tctcggtcgc ctgggtggga ccgacgtcgt gatgtgtcgc ctcctcgccg ccgtgatagc 840
cctgtttatg gagagtatca tggtgattct cttggtcgtc ggggagacat gcgtggtcga 900
cgaggcaatg attaccgtca gcgcagcccg cccgggcgta gacggcgttc tcctaccccc 960
cctcgaaagg acccgacact gcctcctcca ggccctaagt ttatcgagtg ggattattct 1020
atcggacaag gaaacatcaa aggtttgtag 1050

<210> 3752
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3752
gagaacgccg tctacgcccg ggcgggctgc gctgacggta atcattgcct cgtcgaccac 60
gcatgtctcc ccgacgacca agagaatcac catgatactc tccataaaca gggctatcac 120
ggcggcgagg aggcgacaca tcacgacgtc ggtcccaccc aggcgaccga gatctgcgac 180
gatactggcc tggaggagag cgcatgtagt cgcgatctcg ttcacgatcg cctcgatcaa 240
aatcacgtga ctgtgaatct ggacggctac cccaggcagc agctgcttga cccggtaggt 300
tga 303

<210> 3753
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3753
ttatttgcta acacccacca gctagaggag cagatgcaac tttccatcca aaacagctac 60
gaccgtgcag gaaacgtcat tcgtaacgct gacgctgaga ttgctcgtac tcgttccata 120
ctcgcctcga ttgatgactt ggagaatgag ctcgccaaaa taggacatat cagagaaatt 180
gtgaaagctt atcgtggcag gatagagagt cttgaccaac gtattgacca agctgcccgc 240
cgaagacact ga 252

<210> 3754
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3754
agagtcttga ccaacgtatt gaccaagctg cccgccgaag acactgacgc cgcatatact 60
accatctcat tctcacaccg catatcagca tctatactgg tcgcccacac atactctaac 120
tcttacgaat tatacgaaac taacgacatg aaatctttcg ccccggaggc tgtcgcatat 180
cagttgccag actaccgatt gactgacgaa tga 213

<210> 3755
<211> 264
<212> DNA
<213> A.fumigatus

<400> 3755
ctgatcaaca ctaactgtgg tgtccgtgga tttctcggaa ctaatttgaa ttcttacagg 60
tttccacgtt cttcgcttca tcagcgcgac cctcgcgcct cttctctctt cgattcctac 120
ggcggtggtt ctcgaccggc cagccgctca ccggccagcg tgggcggata tagttatggg 180
ggctactctg cctcgaatgc cgatgggtac atgaacgggg gctccacagg tggtttccga 240
aaggcaaccc ctaatgcgaa gtga 264

<210> 3756
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3756
tactaccggc agctcacgct cgccattggc gatgaaattc gagatacatc taccatctca 60
gagctcaacg atgcattcga caacactcgc gtgcgacttc gtggtaacat gactcgcatg 120
ctccgcatgg ccgagcgtac gggcgttggc tggcgtgcat ggctgggttt cttcctggct 180
gttttcctga tcttcgcata cgtgtggctg acttag 216

<210> 3757
<211> 276
<212> DNA
<213> A.fumigatus

<400> 3757
gcactcccct ctcacatacc tgatgtcacg caggtgacta actccagtat agagggcatg 60
ggggtgaccg tcgactcgga tggttcctac ccctactcca cctacgaggg tagcgacttt 120
gccaagaacc ttgccgctcc tgacatcgat ttcggagtat tccacctgta taccgaggac 180
tgtgagtatt gttccaccct cgtcgtcact ggactgtcaa ttgacgcatc gtaccagggg 240
gcatcaaaga caacagctgg ggcaacggct gggtga 276

<210> 3758
<211> 528
<212> DNA
<213> A.fumigatus

<400> 3758
agacataacc tgcagaaagc cggcttgaag atcctgcgaa cttggggttt taatgatgtg 60
aattccaaac cgagctctgg caccgtctat ttccagcttc atgatccatc aactggcacc 120
acgaccatca acactggcgc agacggtctc caacggcttg actacgtggt atctgcggcg 180
gagaagcgcg gaatcaagtt acttatccca ttggtcaata actgggacga ctacggcggc 240
atgaatgcgt acgtcaaggc gtatggcggc agcaagacag aatggtatac caactccaag 300
atccagagcg tgtatcaggc atatattaag gcggtagttt cgcgctaccg ggactctcct 360
gctatcatgg cttgggagtt gtcaaatgaa gctcgttgcc aagggtgcag tactgatgtt 420
atttacaact ggaccgccaa aaccagcgca tacatcaagt ctcttgatcc aaatcacatg 480
gttgccacag gcgatggtac gctaagcact cccctctcac atacctga 528

<210> 3759
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3759
cgcatcgtac caggggcat caaagacaac agctggggca acggctgggt gacatcccac 60
gctaaggttt gtaaggctgc cggaaagcca tgcctgttcg aggagtatgg ccttaaggat 120
gaccattgct cggcctcgct cacctggcaa aagacctctg tgtcttctgg aatggctgcc 180
gatttgttct ggcagtacgg acagacgctg tcgaccggcc catcacccaa tgatcacttc 240

accatttact acggcaccag tgactggcaa tgtggtgtag ctgatcatct cagcacactt 300
tag 303

<210> 3760
<211> 273
<212> DNA
<213> A.fumigatus

<400> 3760
caatatcaac ctttcttttc actatctgca gcacggatag gaacaccagc catgaaaaaa 60
gctggagggg cgtcgctctg caccttcccc tcatcttgcc cgcagcacgc caccgccgca 120
caacagctca tcatgcatca taacgccatg accgtccagg atccctctct cctgatttgc 180
acccttcctg gaaaatgggt cctcttcaca ctacttcgta ctactgcaaa agcagtgatg 240
cttctccact gcttagtttc attcttgtct tga 273

<210> 3761
<211> 1158
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (32),(33),(42),(45)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3761
ccacaggtat cgtttcgctt cgtgcactat annattgatg gnccngggac cggagtggcc 60
actttggttg cctgcgctca ggccggcgct gacgccgtcg accccgccac cgacagcatg 120
tccggtatga cgtctcagcc cagcgttggt gctatccttg cttctctcga gggcaccgag 180
cacgacccca agctcaatct ggcccacgtt cgtgccattg actcctattg gcagcagctg 240
cgcttgctgt actcgccgtt cgaggctggt ctgaccggcc ctgaccctga ggtctacgag 300
cacgaaattc ccggtggtca gctgaccaac ctcctcttcc aggccagtca gctcggcctg 360
ggtcagcagt gggccgagac caacaaggca tatgagtcgg ccaacgacct gctcggcgac 420
attgtcaacg tcacccccac ctccaaggtt gtcggtgact tggctcagtt catggtctcc 480
aacaagctga ctcccgagga cgttgtcgcc cgtgctggcg agctggactt ccccggctct 540
gtccttgaat tcctcgaggg tctcatgggc cagcccttcg gtggcttccc cgagcctctg 600
cgatccaagg ctctgcgtgg ccgccgcaag ctcgacaagc gccccggtct ctacctggag 660
cctctggacc tggccaagat caagaaccag attcgggaga agtatggctc cgccactgag 720
tacgacgtgg ccagttacgc catgtacccc aaggtctttg aggactacaa gaagttcgtg 780
cagaagtttg gtgatctctc catcctgcct acccgctact tcctggccaa gcccgagatc 840
ggcgaggaat tccacgtaga gctggagcag ggtaaggtcc tgatcctcaa gttgctggct 900
atcggccccc tgtccgagca gaccggtcag cgtgaggtct tctacgaggt caatggtgag 960
gtccgtcagg tcaccgtcga cgacaacaag gcctctgtcg ataacaccgc ccgccccaag 1020
gccgacattg gcgacagcag ccaaatcggt gctcctatga gcggtgtcgt cgttgaaatc 1080
cgtgtccacg aaggctcgga ggtcaagaag ggtgaccccg ttgccgttct gagcgccatg 1140
cagatggtgc agtttcgt 1158

<210> 3762
<211> 345
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14),(29),(34)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3762
tcgttccccc ggcnggataa cctgacctnt attntcagca cccccagtgg cgaagactac 60
accttcccct ttgaccgtct gggtggtcgc atcccgaccc tgctgatctc cccctgggtt 120
gccaaggcac aggtcgagca gaagggtaag aatgctcacg gcgagactgt gtcctactcg 180
gctgcatcga ttctgcggac tctgggctac ctctgggact ttgagccctt tacccctcgc 240
gtcgagcatg cggcgtcatt tgagcacttg attcgtctcc atgctcggaa ggacactccc 300
actgcgctcc cttctgcagt gcctttcagg aatagaaacg tgtag 345

<210> 3763
<211> 900
<212> DNA
<213> A.fumigatus

<400> 3763
tatttgtgta ttgaaatgca tgtgttgaag agatcatgtt gcggggattg tgtttgcgga 60
gattctaggg ctaagcaggg gctaactgaa cccgttccag tgtttatcca accacaatcc 120
ctcaccgcca gccagagctc agatctccta tcagctcaaa tctcctgccc atccctttct 180
ccctcaccct ctccagactc ggcaactttc atctctcatc ctcagtcgat tctctcagct 240
gagccctctg gatcagactt ctgcgaccct cgacagctca cagtcgaatc gtcagttgga 300
gctcctgcag agttaccgcc attgcctact ctttcctgca atgaggagga acctaaggtt 360
gttttgggta gcgcaactgt gacattgccg gtccacgagg gcctatcgcc atcattctcg 420
agctcctccg aagatcctct cggttcattg cccacttttg acagtttctc tgaccttgat 480
tcggaggacg agtttgccaa caagctcgtt gacttccacc ctattggaaa cacctacttc 540
cagggagata aacggcaacg tctaggcacg tacctccttg atgaggacga gttcttgagt 600
gaacgcagct tggaagatct ggacgatcaa gaggcctttg cccaatccgg tcttccctcc 660
gtggagtcct ctgactttct cgcagtcggg ggtgatgcta cacagagcac tgaggaaatg 720
agctcgaaga agagagtcac ttctcgcagg tcgcttaaga aggcgagcac gtcggagagc 780
agctcggaca gccttgccaa agaagactcg ggcttccgcc accagccggt ctggtcactc 840
cgacacgact tccaccgtcc agcattcgac tgcttcttcg cgtcagaact cgaccgccca 900

<210> 3764
<211> 696
<212> DNA
<213> A.fumigatus

<400> 3764
ctaacatctg ttcaaagtca gacacagcaa cccataacaa tggacgcaac atacaccatg 60
gcacagaccc cagtgcaggg acagccatca tttgcatact acccaacaga gtcgcaatcg 120
cggcagcaac atttcaccag tcacccgtcc gagatgcagt actatggaca agtgtcgtct 180
tacccacagc aacaagctca gcaacagcac agcatgcaag aacaacagcc agtctatgct 240
gctcaaccta tgttgaacat gcatcagatg gccacaacca atgccttcag gggtgccctc 300
agcatgaccc cgattgcctc cccacagccg acccatctca agcctaccat catcgtacag 360
caggactccc cagctctcat gcctctggac acgagattcg tcagcaatga cttctatggg 420
ttcccttcga ccccaccgct gtctacatct ggaagcacca tcagcagccc tccgtccagc 480
aatggctctc ttcatacccc aatcaatgat tgcttcttct catttgagaa ggtggaaggg 540
gtgaaggaag gttgcgagag cgatgtgcac tgtgagctcc tggccaacac cgactggtcg 600
cggtctgact cgcctccttt gacacctggt gagtcaaatg atttttgat gttcagtcta 660
gtgttttgtt cccatctttt aatatttgtg tattga 696

<210> 3765
<211> 657
<212> DNA
<213> A.fumigatus

<400> 3765

gacgaatcct tcaggctgca caattcattt caaaactcca tagtttacca caagaaggta 60
tacgcatcaa acagcgagat ggcggacggt tctcgtctgc cagaatcggc aacaagcaca 120
acaatggaga ccaacacgaa tgaacacgca aaggtcctca gtccagatgc ggaaacggta 180
ccctcgtcat cggtgacagc aacttcttct gaattgagtc tcgatggccg gtggggagag 240
cgggatcaag gggagcccgt ttcccgccgt ggcgccatgg aggattttga ggagatgagg 300
agggaactga cccaactgag tctgagacga acgcggtcgg tgggaaagga tgcccatcgg 360
ttgcgatccc gggcctccgg gcgagccagt caagttcacg atgaggagaa ggcaatcgac 420
gaggaggatt cgacgatcga cggtgacggt gacggttacc agggtggatt tgatctcggc 480
gagttcctga tgggttggtc tttggaacgg agaacgacca cttgtaaacc ggcgaacaaa 540
gtcggtgtct tgttcaaaca ttctcacggg gaaaggtgtt caaacgggaa cctccttttg 600
tgtcgaactc ctccgcgaat gctgttgttg gcacattttg gcccggtatc tgtttag 657

<210> 3766
<211> 1656
<212> DNA
<213> A.fumigatus

<400> 3766
ggtttgacct tccaaacacc accgaacacg gacatccaga aaatgacgaa cccacgagcg 60
gcgaagagag ggaggttgtc gaacatacag cctgcagaca aggatggtga tatccaaatg 120
cgagatgacg gccagaatcc ccactcggtt gcatcgtcac ctaccggcca gggcgcatcg 180
cccactacct cgaaaacatt tcgacaacaa cctgagccag acgggggtga agacacagcc 240
atgaacgggg cgggagataa ctcagcgagc gtggagactc cttcgcggaa cggccttcga 300
tcgagcggac gtcaacggaa gccaccacag agatacgagg aagaagttct caacaccccg 360
tcgtcagtga agagaaccag atcatctgtt ggacaatctg agcggacgcc acgtagcacc 420
aggagaagta gattggtgcc ggcaacggaa gaggctgagg agaattcacc gcagcatcag 480
agggaaggac tagccagaac gaggtctaag agggcctccg ccagatacgc tcccaccgag 540
aagcaggatc aagaagatca acctgagagc cgagaacagt cgctacagtc tccgaccccg 600
gacgattacc aagatggatt ggacgacctt gtttcaatgc aactacagca agacaccact 660
caccaggatg cgatcgagta tgacgacagt atggtcacat ccaatcctct gcccgactat 720
gcagaacgct ttttgaggct tgttcaggga ggccttagcg aagaactacg gcttctgaca 780
aaggtgcttc tcaaaaagct caatggaaag caacttattc cgttgaaagg gctagagagt 840
gaatacacca aggtgcgtca gctcattgag cagaccgtca ccgctggtga aggtaactca 900
atgctgctcc ttgggtctcg tggctgtggc aaaactgcca tcgtggagac gataatatcg 960
tcgctgaaga gagagcacat gaatgaattt catgtggttc gactcaacgg cttcctacac 1020
acagacgatc gacttgcgct gcgggagatg tggcgccaac tcggtcgaga gaccaacacc 1080
gaagaagagg caggcaaagt gagtacctac gccgacacca tggcaattct acttgctctc 1140
ctgtctcatc cggaggaatt gttcggtcct tctggaaacc cgaaggctat cacggcagcc 1200
aagtccatca tcatcattct tgatgaattt gacctgttcg cgacccatcc ccgacagact 1260
ttgctctaca atctatttga catcgcacaa gctcgcaaag ccccaatccc tgtgctgggg 1320
cttaccacga aagttgatgt gaccgagatg ttggaaaagc gtgtcaagag tcggttcagt 1380
catcgatatg tctacgttcc acttcccaga agttttgaaa ctttctcgga aatttgtttc 1440
gcggcgttga acttggagga cgatgagaag caatgcttct ttgacgaagt cgcacccggg 1500
aagggaaaca cgctattgga gggatggagg acatatctac aggtatattc tttcctgggt 1560
tcggcctgct tgtcagaaga cactaactca catctaatag gccctctggg ccgacgaatc 1620
gtgtctacac gccggcggat ggaaggtatg aagtgc 1656

<210> 3767
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3767
caccaatcat tattccgtcc cagcatggaa gggaaatact cgtccgatcc agaatgggca 60
tctatcaagc ccattgagct caatgatggc agcgacttcg gtgccatgcc gttggccacc 120
atttcctatt ccccggaata tctcgaggcc acttcttacc tgcgagctgt aatggccgcc 180

aatgaaatgt ctgagcgagc gctgagactg acgggagaca tcatctccat gaacccagcg 240
cattacactg tttggtaa 258

<210> 3768
<211> 501
<212> DNA
<213> A.fumigatus

<400> 3768
agtcgctctg aagcatctca aaaactacca gatatggtaa gtattaggtt ctgttacacc 60
ttgcatccct tctatctgac acacttcaac aggcaccacc gccaagttct catgtcttcg 120
cgggcacatt tccccactct tccgcccaga gagcaggact ttctgatgga aatgtttgcc 180
caggatgcca agaactatca cgtctggaca taccgccact ggctcgtccg acatttcaag 240
ctctgggatc atccgcgcga gatccaggat gtggaggcgc tcctgaaagc tgacgtccgg 300
aacaactccg cctggaacca ccggtacatg ctccgctttg gaccgcgcga tgaaaacgag 360
tttgatgccg gtctacacaa taccacgggg ccatcctcgg agaagggccg cctgccagtt 420
gtcgacgagg atctggtcga ctctgagctg cagtactcgc agagtaggat actcgaagct 480
cccgagaacc gcagtccatg a 501

<210> 3769
<211> 453
<212> DNA
<213> A.fumigatus

<400> 3769
atgcggggag atatggaaaa tggtgcatcg tctattattg cagtcctctt cctcactcag 60
ttgaatgtct acttctataa tcatctgcgt cgtattcctg aaaagtatag ggacatggca 120
tctgtaaccc ctctacccac ctttgataac ctcaccatcg acccctcagg accaccaggg 180
aacgcatggg gtctatttgg gaagaacaac gagctgggga tgctgaacct tctcactccc 240
gagacagtgc gcagggcagc agcagaggag attcgagacg gcgtacgatt ctcgcttgat 300
ctgccactcg accgaattaa gaaccccagt ttcgggcgca agccgtttgc acgggagttg 360
gtaaacaagg cgccacggat tgtcaatgat gatatccttg tcttcaatac gcagtgtagc 420
acgcaatggg atggatttag gcattatggt tag 453

<210> 3770
<211> 387
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (352)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3770
cagcctctag catgggtcaa gcacggcggg attgtcggaa gaggcgtgct aattgactac 60
gcctcatggg caacgaagaa ctcgatcccc ctcagccctt tcaccacaac caagatcccc 120
ctctctgcaa tcaagcagat cgtcgaagaa aacgacatcc gatttcgccc cggagatatc 180
ctcttcctcc gcacaggctt cacagccgcc tacgacaagc tctccccgga cgaagagctg 240
gccatctctc agcgtgaaac gcctcaattt gcaggtcttg aagccggaga agctactctc 300
cgttggctgt gggagaatca gtttgctgcc gtaacgagtg actcgcctag tntcgagcct 360
tcacccatcg cgggccctca aggtcgc 387

<210> 3771
<211> 192
<212> DNA

<213> A.fumigatus

<400> 3771
cagacggatt gtgcggcagg gaaccataga cacaagcgct actttaatgg gcattcactg 60
gaggacttga aaatctcccc tgtgatcggc attgacggta agtctgccat atataattcg 120
acttacttcc aactaacagc ctctagcatg ggtcaagcac ggcgggattg tcggaagagg 180
cgtgctaatt ga 192

<210> 3772
<211> 1080
<212> DNA
<213> A.fumigatus

<400> 3772
gatgtattcc ttgacggcgg caaggtcatc gacgagaatc tgccagggct agaacagccg 60
aagccgaaag cgagagcacc ggctgaccct gctgtatctt cccaaggcca gtatgcggca 120
ttcaacccgc actccggtag tactaatcag taccctctgt cacaacacaa tgttgccggg 180
gatggtacac cgaaccagtt tgatagtgcc gggttccaat tcgacctacc cggtaaccca 240
ccatcagctt cccctgtccg gactcaaggc agtgtggacc atggctacaa tgggcaacag 300
gatgcttacg agggtccgtt aaataatcag tatatggagc aacagggaag tggagggcct 360
gctgttgcag cctatgagaa cggacctccc cgaccgtaca gggtcaatca gcctgaatat 420
gcaaaccagc aaccggagat ggtcaatgag atgaatgagc tcgattctca acagaatccg 480
gacggtctgc ctcgtcaccc tgcgcctttc cgtccagggc acgatcaggg gagcaagccg 540
cctcctgtgc ggcagtacga caatagtaac acaacgggat ctccaacctc cacggttcca 600
caggcccagc ctatcgctca gccagacccc gcgcctgctc ctgttactca ccaagagctt 660
gagcgcttac agcaagtggt acggagcaaa gctgctgacc agaaaactca acttcttttg 720
gcacagaaat tggttgaagc ctcaacggtc cttgtcgaaa atagcaggat ggatccaaaa 780
actaaagcta gggctagaga aaaatacatc atggacgcgc acaagatcgt caaaaagctg 840
gtatccagtg gttatgcaga tgctcagttc tacctcgcgg attgttacgg ccagggtttg 900
ttgggcttgc cggtagaccc gaaggaagct ttcaacctct atcattccgc agccaagcaa 960
gggcacgcgc aatccgctta tcgggttgcc gtgtgttgcg agattggcca agaagaaggc 1020
ggtggaacga agcgagatcc ctttaaggca gtgcaatggt acaaacgcgc tgcttcctag 1080

<210> 3773
<211> 1395
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (76)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3773
attgcagctt gggatggaaa cctcacttat gccaagctca atgagttgtc ctcgcttctt 60
gcgttctatc tgacanaact gggcgtggga cctggtctcc ttgtgccaat tgacttggac 120
aaatcctcgt ggcaaattgt cgctatctta gcggttctga gagccggtgg tatttgcctt 180
ccagtcgacg cagctcaacc atatgagttc attgaaaagc tgttgattga caaagacatt 240
caggtcgctc ttgcgtcccc aaacaaagcg cagcttctgg aacgcacaat tccttatgtc 300
gtccccgtgg gaaggtcact ttttgactac ctccctcgtt ttgatgatgt gccgcacgtc 360
tcacataagg caatggacca tgcttacgtt gtgttcactg gcggtagtgt caaggaacca 420
aaaggtgtta tgctccagca tcttacagtt ttgacacggg ctgagaattt cgcatcggct 480
ctggaactga ataaagcgac caaggtgtac cagtccgcga cgtatacatc tgacatgttc 540
ctcaatgtgc tttttggtac aatgatgcga ggtggttgtg tttgtattcc agccaacgat 600
ggattcaaca acctcccacg atcgatcaat gcctcccgag caaacacagt tgttatgact 660
ccgtcactcg catctctgtt gcagccatct gaggtccctg aggtgcagct actggcacta 720

tatggtgaga tcctgacaaa ccaggtcaga actatttggt cagaaaaagt tcgcacgcat 780
tctttgtatg gagcagccga gtgctcttca agttgcattc atgcttctga ctgccaaacc 840
ttgggtgagg caaggaacct tggacttgcg gctgggtgca taacttggct tgttaatcct 900
tcggaccacg accttctggt tccgattggt agtgtcggtg aagttgtcat tgagggtccc 960
gtcatcgctt ctggttactt gttgcataac gggcatgtca agggaggctt cattgaaaat 1020
cctgtttgga gaatgaactt tgagcgtgac gaacccagca atgacctcga gaaacgtgac 1080
gaaagctcaa ctctgacccg acggatgttc aagaccgggg acttggcccg ctacaattcg 1140
gatggcatat tggtctacat gggaagaaag gaaagacaga cccagagatt gcaagcggat 1200
atatgggacg tccaacagtg catcgacacg ttttcgttac ctggccatcc ttgcgttgtg 1260
gagccgattc gctgcttaga tgacgatgaa tccgtggagc acctggctgt ctttgtccaa 1320
ttcgcctcaa ctcacttgga gaaggctgat ggccagagat ctgtaatcgg acaaccctcc 1380
ccccaatttt tttga 1395

<210> 3774
<211> 1212
<212> DNA
<213> A.fumigatus

<400> 3774
aaaatgccca gccaaagtag gtcgtcatca agtcattggg cgggacagtc accgtcgtct 60
ctcttggagg aaagttttgg cggcatcaac atgaacggcg gatctccact gaacgggaac 120
ttcaactttg cctcgaacgg gtttcctttc ggcatcaact ttgcgccgtc tccccctcag 180
aacaatatga aagcggaagc gacgcagcgt cacgtcctca ccgttcatcc cacttcactg 240
aagtcccgcg tagaaacaca aattcccatc cggctgactc tctatccaat gccctccggc 300
gtcaagaaat tacgactgcc tacccacacc atctcgaagc cgaaattcct tgctcctccg 360
tctgcggatc gttcggctga taccttgcaa ctgcatacga gtcttgtctg cactagcgcg 420
atgcaggatc agacgaaact gaggaaggca tttgcacgag caaggggcga gacgcggtac 480
cgcgcctcga gctctagccc gaatgccacg gaagaattac cagaagatga caagcccttg 540
gacggcgggg aggtgaaaat ctgcgctgga tgcatacagc gtgaacggaa gcgcgctttc 600
agaaagaagc agagaaaacc ggaggaggat gagttgtttc aaaaggacga ggagaagcga 660
gtgatcgtct ttaacaccaa cgagatcaaa gattgggcag agccctccaa gcatgctatg 720
ccaggctaca ctgatgctcc tgcgccagtt attcccgctg gagcaatgca agtcgaactt 780
ccaatgcgaa ttgcatgcta ctgcaggcac cagaacgaaa agctcgggtt tcaggtcatt 840
ttcacagtca aagaccatat ggataatgtc attgcccagg caatcacaaa ctccatcatg 900
atcacggatg atcacaagac gcacgctccc ccggctcctc ccgccccggg cccttctcca 960
tccctccctg atgggacaca gttgcctgga gtaggcgtct ttccgtcagg ccttcccgtc 1020
gagaccgcga agtcgccagt ccagtcgttc cgatcatcct cgactacgga tctacagggt 1080
cttcagcaac ggttcaactc gcagtatcag atgtcgacag gctccttcac cacctccgct 1140
cagaatggcc agaacggcca gaagaacgcc accgcaaggt cttcaccacg ggcctggaag 1200
gtccgcgatt gg 1212

<210> 3775
<211> 228
<212> DNA
<213> A.fumigatus

<400> 3775
gggtctggga ctatttacac cccagagcta accggctttc aaactagaac ccgcccttc 60
aagggaatta acttagatga gtatagtggc ggtttgtcgt tcaaggctaa accagaagta 120
aaatctcatt ggttgtgtga tgtactatgt attagaattg ccggatcccg atggatccac 180
ttgcttatca cacgagcagc acttctcaat aattcggaag tcagctga 228

<210> 3776
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (37),(62),(101),(126),(152),(155),(179),(187)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3776
cttcccagcg ttggtgttac catccccggc accgganaca aggtgatttc cacgcctacc 60
antatggtca ccagcgtgag acggactgcc acctcggccg ntggcaccgg taatggcgct 120
ggttcntcca catctttccc caccagcggc antgntgagg agcagctcag ctacattgnt 180
tttgttntga agagcctgct gcagtatatt gcttag 216

<210> 3777
<211> 1029
<212> DNA
<213> A.fumigatus

<400> 3777
tggcttcgcg actccacgaa ccaactatcc ggttatcagg ctctagccaa aaaggacaaa 60
gccctccaca acctcatttt gggtgccatt aacacccagg ctgagtttgt cattcagtcg 120
ccatactgca atgcctttca acccccctcca cccagtggcc ttaagccaac accgaatggg 180
caggacgaca aggttcatcc ggcatatgag ccctctgttg tgttcgaatg caagtacgag 240
ctcgattcat tggcacattt cctggccctg ggaacccagt tcttcgaaaa cacgggatca 300
acggagttcc tcaccgaacg ttggtacatg gctctgaaca cccttctcag cgttttggat 360
gcgcagtcac agccgacgtt caacgaggag ggccaatttg tcaccaacca gtacacgttc 420
cagcgcacaa ccaccgcggg cactgaaact ttgagtctgg ggggcattgg caatccattg 480
aataatggca cgggtctcat tcgaagcgca ttccgtccca gtgacgacgc tactattctc 540
ggctacttca tcccgcccaa tgcgatgatg tccgtccagc tgaagaagac cgcggatgtg 600
atcaaggcgg caggagggag tgcggacctg gtcaaaaagc ttcggcagcg aggggaggag 660
cttgatcacg ctgtcagaga gcacggcgtg gtccaccact caaaatacgg cgatgtcttt 720
gctttcgaag tggacggcta tggctcacgg atcctcatgg acgatgccaa cattccgtcc 780
ctgctttcgc tgcctctgct cggctacgtt gatgagaaag atcaggtcta tcgcaacacg 840
cgcaagatga tactcgacaa gagcggcaac ccatattatc tgacaggctt cgcgttccat 900
ggcatcggtg gacctcacag taagtttatc tcgtctcctt ctatcaacct ttccatgaac 960
aaaggagacg ctaaccatga ttcgtatgca gtcggttttg cagaacgctt gggccaatgt 1020
cactcctaa 1029

<210> 3778
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3778
gaaaatgtcc gttggcttat caagctcgcc ttcgaagtgc gcctcaggac ttcgccaatt 60
gtcattgccc gcaagcatac ctttgatgca tctgcctttg ggaaggtaag cggcattctc 120
aaggtcgatg atctgaaccc gttcaaccgt ggtattttta ccactgggct ggcattcaac 180
cataatattg tctggcttga tatctag 207

<210> 3779
<211> 366
<212> DNA
<213> A.fumigatus

<400> 3779
cagtgcatct acgctatgct cgggcgggtc atcttcggtc ctgacgagga ttttagaaaa 60
catcagaccc agggtgcact gcctgctctc attcgcctgc aacgtcaagt gtcgtacttt 120

ggagactcag agggaatcaa cggccttctg aagcacatta ccgatgatga gatcagttgc 180
caggtcctga ggatgctatg ggatggaagg tctgacgaac acatcccata caaaccattc 240
tgcaagtggc ccgaaatcgt cgatccgata ttcaaagatc tcattcaaca actcacaaat 300
ctggatccga ccaaacgaat tacagcatgc caggcattgg agcatccatg gttccgcgat 360
tactag 366

<210> 3780
<211> 207
<212> DNA
<213> A.fumigatus

<400> 3780
cgcggatcct tcgacccccg tggtgaaaac ttcaaaatag agctgcatcg cctgctcaat 60
attgaagtcg gccagctgca agtactgagt cgccagcgaa gtgttcgagc cggtgatctc 120
tgtgaactga gcaaccacgt cgctttccat gatggaagag tgaaactgaa gatagtagag 180
gtaaggaagg gaagaagggc gatgtga 207

<210> 3781
<211> 192
<212> DNA
<213> A.fumigatus

<400> 3781
aaggtgtcgc gtagaaaagg aatcatgcct ctttcggatg aagcccccga tcccaaccct 60
tcaaagttat tgtataactg cgggcacatg gcaagcgtat atctattgga ggaccttaga 120
acttacctca tcgacttcct ttcaatccag ctctttccga aaacacaaga tatcatcgag 180
cgtatctggt aa 192

<210> 3782
<211> 297
<212> DNA
<213> A.fumigatus

<400> 3782
atagctttct gtattttact ccatgcattc tatatatata ccattccaca gactatattc 60
tccactgaag aggggaagaa gctcatcaca tttagcatac tatacgacta tgcaagtagg 120
cataccagct tctatttaat agctgatcca ttaggggctt atgcagtcta tctcaataat 180
cttagaatct cttatcatgg tcatactctt tctacctact cttcatctat tagaaaacta 240
acttgcagct gggcggtcaa tagaaccatg ctgtatatta tttcctacat agtctaa 297

<210> 3783
<211> 366
<212> DNA
<213> A.fumigatus

<400> 3783
cagtctgacc tccagctcaa cagcatcagt cttgaacaat ttgttgctga ttatgttatg 60
gagtctgaaa atgtacaaag gctcgagcag tcgcaatttt ctgaacaacc ggagactgtg 120
ctaaactcat tgtgcagcaa tggatcaaca gaagacctac aatccgagaa agtgccctcg 180
gtgaaagttg cgatcccacg actcgctcgt ccgaggacca ccagcaaccg gcgcatcagg 240
acggcatgtg cggcgtgcag ggaacaaaag gccaagtgca gtgaacatcg accatgcctt 300
cgctgcatca gtttcggcat cgcttgcacg acgctcgaaa gtaagcacga aagtaggcaa 360
aggtga 366

<210> 3784
<211> 204

<212> DNA
<213> A.fumigatus

<400> 3784
gaattcataa tagcgggtat cctgaatgtt agaccgatgc acccttccct acctaggatt 60
cttttgccac aagatcaccg atgtttgatg tcctgggcca tgaaccaaac agcggcccgc 120
tgcaatgatg tgaacaacgg atcagttaac cagaatcaca atgaggattc atatatcctt 180
caggacattt tgatccagaa ctga 204

<210> 3785
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3785
tcttgtggca aaagaatcct aggtagggaa gggtgcatcg gtctaacatt caggataccc 60
gctattatga attctcattc tagagtggcc tctatcgcca gtagaaccgt gtcgacaaag 120
accgctagta ccactgggcc tctcatcttt gatgaagtaa tattgtataa ggcttcattc 180
gtttctatca ttactgtcca atctgcccat gattctaatg ttaatgcatc aagtcctacc 240
atcaatctaa gagattga 258

<210> 3786
<211> 255
<212> DNA
<213> A.fumigatus

<400> 3786
tcatgtatgt ccatctttct gcctcccacc agtcgaaagc tagtgctaat aatctacagc 60
ctcttcctct gcgtcgccgc gtaccttatt ttcggctcct ggctcaacta caaccgctac 120
ggtgcccgtg gctgggacct cctcccgcac ggcgacaccc tccgtgacat tccgtatatt 180
ttccaggact ggctccgacg ggtcattaat acgctccaag ggagcgggtc gagaggcggt 240
tacagcgcgg tttga 255

<210> 3787
<211> 267
<212> DNA
<213> A.fumigatus

<400> 3787
tctgggccgg agttttgggt catcaacgca gatgagatgc tcgaaaagcc cgcggccatg 60
ttcgaggcgt tctgcgcaag tgtcggactc gataatgatc cctccatgct gtgctgggac 120
accgacgtgg accacaagat tgcacgggac gcgttcgaga aatggcgtgg tttccacaac 180
gatgcgatcg agtcgaaggg tctgatggcg aaggaacctg tagcactccc tttttcctca 240
ccattccttg caaaccgaag aaactga 267

<210> 3788
<211> 756
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (576)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3788

gcacggtatg cgatggagtc cgcctgccat accggccaaa tgtgcgttta cgatacagtt 60
gaagataagg gatggcgtgt tgcactttca acccaccgga tcgaggccgt aatttccgac 120
gtcctcgagg tatatgaaga catcgctcct tgcgcacccg aggaagagtg ctatgattgc 180
gagttgtgga agttcttcaa aagcaatggg tctgaaagca cgacaacttc gactactacc 240
actaccaccg ctcctaccac aacccggaca tcgacatgca agacccccgg ctggtggggc 300
tgtttggacg aaagcacgac cactacgacc accacttcta cgacgacgac gacgacgacg 360
acgtcaacat gtaaaactcc ggggtggttc ggctgcaaag acccgactac aacgacagag 420
gcaacggccg ccccctctgt cacaaccagc atacccacgc caactacata tccaacttca 480
tctacctcca catgcaaaga tcctggatgg tttggttgtc gtgatcctcc cagcacgaca 540
gcgtccatca cgtcgtcacc ttcgacaaca tccacntgcg atgatccggg tttcttctgg 600
ggttgctatg acgagtcaac aacggcaact catcccatca cgtccggacc gagcgcgcca 660
tactcgactc cctcccctac gcacgaacac acatgtactt ccagtatttt cttcggtttg 720
atttgtgttg ggtcgaccgg caccgaacta cgctag 756

<210> 3789
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3789
ttagtggcag aatcgatgat ttgcattgaa gtcatcggct ttattgaggc tgcaatctat 60
aaacggtttc ctagtcgggc gtctgagagg atagaggtac caaatggggg cattatcgat 120
gacctttcga ttctatttgc tcgtccaaag atttgctcgt tcctcatccc aaactgctca 180
tcatga 186

<210> 3790
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3790
ccacatccat gtcgcttttg cgggaaatca tcttggacta actcatatta tatcataaca 60
ctgccactgc atggtggaca aaacctctat agcgctattg tgaatgtgca gttgaacaga 120
ggaattccga agttcatgtt agcctcttcc gtctcactcg gttgcctcaa gattactata 180
atagaatcgc atccatcttt cctctatctt caataa 216

<210> 3791
<211> 273
<212> DNA
<213> A.fumigatus

<400> 3791
acagagttac ccgaagtcaa tgatatacta cctccgggag tcactcacga agaacacact 60
ttcctcggcc ctgacaagaa cccgctgatc ctctcaatct tccgcaagga gagtccgcca 120
gactcttttc cacagaaacg accagccatc taccatatcc atggtggagg catgatcatg 180
ggcaaccgct tctgcacact aagcggcctg ctcgaattcg ttcgcgaaca taacgctatc 240
tgcaccacga tcgaataccg ccttgcgcct aaa 273

<210> 3792
<211> 378
<212> DNA
<213> A.fumigatus

<400> 3792
actcttttac tacaacaatt tgaactgact cgggactccc agaactcgtc tcgtccttca 60
tccaccccca tggagccgtc ctcaagccca cactcggctc agtccttcag ctttgcagac 120

gtcttccctg gcggaaacga gctcgaaatc cctctcggtc atcctttcga ctcggtctac 180
gagttctcgc cgccaagtcc ctataacgct accaccatcc cagacctcta cgctttgaac 240
acctcctaca gcgtccccat cccgtcctac tcctcatcct acgagaccca gtttgcattc 300
actccgagct tcgaagattc gttgctcgct caatactcgc tcagcaccag cgcgtcctca 360
tccgactctc ccaagtaa 378

<210> 3793
<211> 258
<212> DNA
<213> A.fumigatus

<400> 3793
ctctggacct ccagattatc caaaccctat gcgtgcgaag actgtggaaa ggccttcacc 60
cgatccgctg acctcaaacg gcaccagagc agcgtccatt atccggtcta ccaagattgt 120
cccgtggagg actgcccgcg gaaggatcgc aatggcttcc cgcgccgaga ccatctcatt 180
gagcatcttc gctcatccca tcacatggat ctgccaaagc gccggatgac gaagcgagtc 240
tcgaaggcgt ctgcctga 258

<210> 3794
<211> 489
<212> DNA
<213> A.fumigatus

<400> 3794
ccgaggcagc tgggtcactt cggcctgggg gtccgaaact tgcaggacat ggttacgttt 60
tacacaacaa ctgtcaacgt agtgccgagc gacttcctgt acgttgagaa agacggcaac 120
aagaaggacg ttgctctctt cgcgcacatc gatcgcggcg cagactacgt cgaccaccac 180
agtttcttca tgagcaccaa tcccacctcg catgtacacc attgctcgtt tgaggtgcat 240
gactttgaca cgcagaattt aggacaccag tggctggcac acaaggggta tgagcctgtg 300
tggggtgtcg gacgacacat cctcgggtcg cagctgtttg attactggtg ggataccact 360
gggaacatga ttgagcacta tgcggatggg gatttggtga atgaggagac gccggtcggg 420
tatgggcccg cgggcgatga gtcgttggct gtctggggcc cgcaggtgcc taagtggttt 480
ttagactag 489

<210> 3795
<211> 231
<212> DNA
<213> A.fumigatus

<400> 3795
tcgatgctct acaatgaata ttatggtgct cgagccgttg atgataacag tacagtcaaa 60
actaggatga ctgttctact cctgattcat caattggagt atgttatcat gattggtcgt 120
gtactacata ccgagcatat cttgctaggc tggcgacaag aatgtccccg cgccgatcgg 180
ccctggaacg gagaggttat ggatgcagct gatcattggg caacgaagtg a 231

<210> 3796
<211> 918
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (879)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3796

tgggttctct ggaggaggag cgccagacac aagggttttt tggcagctcg agtgctacca 60
gtttcatgcg tcagatcaag acggctgtgg aaaagaggag tgggctcgcc cgaccgccga 120
acatccgagt ctatactggg aactgcgccg caatcgagtc ctctttccaa ccggaccaaa 180
agaccgtcca tcatatccaa ctatgtgctt ccaccaagga aaactgccga tagccttatg 240
gacgtgtact ggggctttgt gtttcctctc tatccgctgg tagatagcat tcaattgcga 300
gcggagtata gcaagctctg gactggagaa acgctcgact cggacgagaa tatgctcatg 360
tgcacattca atgtcatttt tgctttggcc tgtcagctgg ctgatttcat cccgcctaac 420
gagcgtgaag catctgcaga tgcattcttc tctcgagcga aagacctact acacttcaac 480
ctctggcacg gcggctctgc tgctttgatt caatgccttc tgttgatggc ccaatacctg 540
caaagcaccg actctgcaca ccagtgctgg attgtcactg ggctggcgat tcgcaacgct 600
caaagtctgg gcctgcacct tccacagacc attgcccgtc taccgagctt ccaagaacag 660
caactagcac ggaaaatctg gcatgggtgt gttcttatgg acagggttat ctcaatgaca 720
ttcggacgac cagctatgat ctccaaggca tcctgtggcg ctgttcccct cccggctaca 780
gtggacgagg agtatattcc cgcatctctg ggtgatgaag tgagacaacc cgccggccgt 840
ccttccgtca tggctttcta cgcaaagtcc cctgagctnt gcgcgatctt aaccgctggt 900
aagcgactag cgtcaaaa 918

<210> 3797
<211> 360
<212> DNA
<213> A.fumigatus

<400> 3797
tttgcctacc cgcacagcca gaaatacatc aattcctacg gagtacacaa caattaccac 60
tgcatgatat atatcatatt aatgagtagc ccatctcctc gccacccacc ctcagacgaa 120
gtgtcaggaa aacgtccgaa acgacgtaaa gtcgcggtcg cgtgcgatga gtgtcgcact 180
cggaaggtcc ggtgcgacgg catccaaccc ggtaggtctc gctggctttt cttccgactt 240
ccgtgtcaat gttgcttcgg aacaagaacc gtcttgctga cggcgttctc tcattcctcg 300
ggctttagtc tgtgggccgt gtatgaagcg atcggatgcg cgatgtgttt acactggtga 360

<210> 3798
<211> 372
<212> DNA
<213> A.fumigatus

<400> 3798
cagcgcggta ccttccagcc ccggggtgaa gacgaaaccc cggtttcttt ctgtgccctg 60
ttcactggcc ctcatggaag gagtgaagat gttagacact atgaaagcat tttggtgatt 120
gcaagtggat ttgggatcgc agcagcaatt ccatacatga agtcgatgat ctatggttat 180
tacacccgga ccataaaggc tcgccggttg catctggtat ggcaggtatg gtcgagggcc 240
gaaattaccg ccgctgagca tttgttaaac aaccttctcg aggatgatca caaggatcat 300
ggctatgttc gtattaccat gttgcgggac agcctctgga cagctgacaa tgaccgtggc 360
tttagatctt ga 372

<210> 3799
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3799
cttatcttag ggagtggtct tgagacattc tggcagccag ctgctgctgc tctgggaaga 60
ctctgcaggc aacaatatgt gtcttgggtg atgtgttggg aaacttactt aaggggattt 120
agcccgtcaa atgtgcgaaa acattcccaa accgagaccg cattttatac agggggtgaa 180
gtgatgaact tcccc 195

<210> 3800

<211> 261
<212> DNA
<213> A.fumigatus

<400> 3800
agacctgtta tagctattct tgaacttggt gcttggttcg gtgcattata ctctggtctc 60
ctatgcgaga ggatctcccg caagtatacc atcttagcga atgtcgctat cttctgcatt 120
ggcgttgtga ttcagacaac ggccgcaacc aagggtggga attcatcgca catcctcggt 180
ggccgtttta tcactggtat gggagtagga aggtatgcat atttctcaag aggaagaagt 240
acgttcaatc gcaggtgcta a 261

<210> 3801
<211> 600
<212> DNA
<213> A.fumigatus

<400> 3801
tgcgcaacag atcgcaccac cggaagtcag aggttctctg gtcgcactgc agcaacttgc 60
catcaccttc ggaatcatgg taagtctgat gatcgatcct tcgttgtcct tgtcaagaca 120
caggcattaa ttgatatttc cgcaggtttc tttctggtag gttcatatct tctaccaatg 180
actttcttcc ctgacgagta taggatcaac tacggcacaa atcatattgg tggcacaggc 240
ccaactcaga aagacgccgc atggctccta ccacttgcct tacagctggt gccggccgtt 300
attcttggag caggcatgat ctttatgcca ttttcaccac gttggcttat tcaccatgac 360
cgagaagacg aagccaaaaa ggtcctcacg agtctgcgtg gcctgcctgc cgatgatcca 420
cttctgcaac tcgagttcct cgagatcaaa gcccagagtc ttttcgagaa gcggaccgag 480
aaggagaaat ttcctcacct ggaacgaacc aacacttgga gctatatcaa gctggaggct 540
gcgggatttg ctagcctctt cactagttgg ccgatgttca ggcgtgtcat ggtagctaca 600

<210> 3802
<211> 318
<212> DNA
<213> A.fumigatus

<400> 3802
gacagtccgt ttcgcatgaa aacgtcagtc ggaaccccaa ctgcttctgt catgccttca 60
gaggacagca gaatagagcc acttccgccg gaagttgtgg cgaagattaa atcttctaca 120
tccattatca atctaaacag agtggttgtg gaactcgtca agaatgcgct ggatgcaaat 180
gcacgtacgg tctcggtaac ggttgatttc caccgcgggg gatgtgttgt tgaggatgac 240
ggggatggaa taccccccagc agagtttgag tcggatggag gactagggaa agcacatcgt 300
acgtgggcct cgtcctga 318

<210> 3803
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (68)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3803
cccagagatg ccccagacat aacacgtaac atgtcacgtg atacatgttg tcaactgcaa 60
cagttgtntc cctctcgaca acttttccag accttaggca acaagcatgg aaacgacacg 120
gatctgtcgc tcctgattta taaagctgat ttctcaagtg gtgttgctgt aatactcgag 180
atccgatgct acatcatagt ctaa 204

<210> 3804
<211> 627
<212> DNA
<213> A.fumigatus

<400> 3804
gttgcattgg ccgatacgac gactatcata gacacttcgc tgacagcttc tcttccctta 60
gcgggcaacc gatggcatat cgaatgcttt tgttgcagca catgcggcac gcttctcgac 120
tcggacgcac acctactgct tctcggagac ggatcgttga tctgcagcaa ttgtacctac 180
agttgtagct catgtggaaa caagattgaa gacttggcca ttttgacggg tgaacaagcc 240
ttctgcgctc agtgcttccg gtgccgaaac tgcaagagaa aaattgagaa cttgcgctat 300
gcgcgaactt cccagggtat cttctgtatg gactgccatg aatcgctaat gcaacgccgg 360
aggaaaaaga aggctggtgt acccacaagt aaaaagccag ggcccggcgt gaagcttgac 420
aagtcgctgc cctcccttcc gcccgaagaa cccgagccgc atcgcgcacc aaatgactcg 480
atcctagatc attatctgga tgatgcaaca tctcgtgagg ccccagacag tgggaggaat 540
gagcgccccc cgatttctcg ccagcacacc gataatcaag gtaagctcat gatttggaat 600
atgcggatca cacgctccga tcgctga 627

<210> 3805
<211> 633
<212> DNA
<213> A.fumigatus

<400> 3805
ctctgcgtac tagctgataa tctgatactc ccctcgagta cctaccgaag cagccgtcac 60
tcagtcgtac cacgtgaagc ggaagcggag agcggaggag aattcctcat acctgtcgcg 120
tttgacccct cggaagaagg acggtcctcg cgcactcagt cgcctccaac agctcacagc 180
caccatcctc cggctggaag cgcgtcaccc catatcgcgt accaggaaag aggacgggag 240
cggaccgacg ttgattccag tcgttggcgt ggagacgatg tcggagccag tgcaagcgca 300
tcacctcgtt ctactgataa tctccagcgg ggcacgtcaa accggagctc cagagctgat 360
ctacccatca attccaagga gacgagcacc ttttcaacac ctagtccgga gtctaccaag 420
tcgagcggga tagtcaagga cagttcaatt gtcgactctg ctgggtcgag aaccttggat 480
agttctgtga ccgccccatc tcgtccgtcg aacgagcttc gtgagctaca tgagaaaggc 540
ggttcggtag attctacgcg ctcattttca tctccaagca ccgcgcaacc tcatccgagt 600
cttcaccacg gggctggaaa gtgcggctcc att 633

<210> 3806
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3806
tattatttcc ctcttctgtc catcatttgt tcttaccccg ctgacagatt ggttgtgcag 60
ttgagcgatg aatgggctga ctctcagatg cccgtcgacg gcactaatgg ctgcctccgg 120
gcattcacac aactcaaaac acaatattcg aagctgaagg ttattctctc agtcggagga 180
ggaggcaagg gaagtgagaa ttttgctgct gtagcgggaa gtcaaagcag tctggagacc 240
tttgtacgga ccgcgaaggg actcgtagat gagtttggac tcgatgggat tgatagtatg 300
tag 303

<210> 3807
<211> 642
<212> DNA
<213> A.fumigatus

<400> 3807

cgacttgcag tcgattggga gcacccttca acccccgccg agggttcaga ttatgtccgt 60
cttctcgcgc ggttgcgtga agtcctaccc tcaccgcggt atgtgctggc cacctgcctt 120
ccagctggtg agtgggccct gcgaaatata gatctgtgca aggcacagaa ctatgtcgac 180
ctgatcaaca tcatggcgta tgatttctcc gggccgtgga ccagcgaaac aggacaccag 240
gcacagctgt atagcccatc tcgagaccca acgggggtca tctcgtgtca gtcggccatc 300
gcgtatgtca tcgcgcaagg cgtcaacccc aagaagattc tactcgggat cccagcgtat 360
ggtcgctcgt tcctaggcag taatcacatc ggtcagcgtt acagtggttg tggaggggag 420
gatggtgtct ttgactactg cgacctaccg cggcccggtg caaaagagta ttccgatgaa 480
aagtccggcg ctgcctggtg tgttggcggc gacggtgggt ttgtcacata cgacaccccg 540
gagacggtgc aacaaaaggc ccaaatttgc gaccaagacc aaactgggcg gtcctattta 600
atggcacaac ggaggggatg cacgaggaac ccgtttccct ga 642

<210> 3808
<211> 219
<212> DNA
<213> A.fumigatus

<400> 3808
tctgaaccct cggcgggggt tgaagggtgc tcccaatcga ctgcaagtcg tcagcatcaa 60
cctaagcagc tcgaacgtac ggtactacat actatcaatc ccatcgagtc caaactcatc 120
tacgagtccc ttcgcggtcc gtacaaaggt ctccagactg ctttgacttc ccgctacagc 180
agcaaaattc tcacttccct tgcctcctcc tccgactga 219

<210> 3809
<211> 306
<212> DNA
<213> A.fumigatus

<400> 3809
agaagcctcg tcactcgtcc tgttgaaaaa tggcgcatcg aaaagggata catcttctgt 60
cagaaagtgg ccgccttgga cattgatctg cagatactgt tatcccatat ctcatttgac 120
cgtgacgtga cttacagtgc cgtgccgcgc atggtctggg tggtaaaacg cgtcactgtt 180
ccatctcgat tcgggtatct ggctccatgc ttcccggcct tcaagtatca ttttccacag 240
cttttcaacg ttactggcat ctccgggccc tcggaatccc atgccaataa tggcaataga 300
tattga 306

<210> 3810
<211> 306
<212> DNA
<213> A.fumigatus

<400> 3810
tctcctacca tgcctatcaa ctccttcgaa gggactgggg aaccggtcca gctcccttct 60
gcccctgatg ttgacatcga ggatggagcc tcgaactcgt tggacgacgc gtcaatatct 120
attgccatta ttggcatggg attccgaggg cccggagatg ccagtaacgt tgaaaagctg 180
tggaaaatga tacttgaagg ccgggaagca tggagccaga tacccgaatc gagatggaac 240
agtgacgcgt tttaccaccc agaccatgcg cggcacggca ctgtaagtca cgtcacggtc 300
aaatga 306

<210> 3811
<211> 693
<212> DNA
<213> A.fumigatus

<400> 3811
aacagttctg gcattcttca gggggagaaa gtagggacaa tttttcaaat tggggtgcac 60

acaaaattta tgagaccagt gggtttgagg accgaagttt cgggcgagaa caacacggca 120
acatatcatt ttgtcgaagg cgacattgac tcggtgccgg gccctggcat cgcaggattc 180
tatgacggac cctactacag ctattacaag tttccccggt cgctttctga tcctgacggc 240
agcgaggagg aatccttgct tgaagcatac aatctcctct atgatatcat cgacgaggac 300
ggtccctttg atggtatcct cggcttctcg cacggaggaa ccctggcttc gggctttctc 360
attcattatg cgaagacata tccgcatgaa ccacctctct ttcgatgtgc catattcatc 420
aattctctac caccgttccg catggactcc ggtgagaacc ctgtaatcga ctcagacctt 480
gacggctata tcaaggtacc gactgtaagc atcgctgggg cgaaggattc cttgttcgag 540
tattcgcttg cattgtacag gctgtgtgat ccatcaaggt ccacgtggat agtacacagc 600
aaggcccacg atattcctaa cgataaaaaa aatgttgctt tgatggctgc agggatccgc 660
aagttagcta tcgaagctct ggcgatatgg tga 693

<210> 3812
<211> 918
<212> DNA
<213> A.fumigatus

<400> 3812
cttagcgcgg atccttcgcc ccccgtggta gaagacgaca ctgcacctga tgagaccacc 60
ccggctggtc ttcttagcgt cctcgcaaca catgcagtgt ttggggctat acatggaagt 120
acccagagcc tctctgacca acatcccagc tacgaggagg ctacagttct ctggaatacg 180
tacgtgcaaa atgtcgagcc tctttgcaag gtgcttcatg ttcccactgt cgcaaaattg 240
gtcgacacaa ttgcaaaaca acctgctgcg gcctcgaaga gtgtcgaatg cctgcttttt 300
gccatctact atattgcggt gttcttcatg tcagacgccg actgtcttca gcagtttaat 360
caaacgaaaa cccaaaagat gtcgaggtat cgaaccgctg tctgccaggc gcttgtcaat 420
gcgtcgtggc tgaagacaac cgcgatgcca gtactacagg cctacactct cttcctcatt 480
gccatgcgca ctcaagtcga ttctcacacg ttttggatat tgacaggcgt tgcgattcgc 540
ctcgcacagc gcatggggct gcaccgtgat ggtgaaagcc taggactgcc accgttcgag 600
gtccagatgc gacggcggct cttttggcaa ctgcttccac tggacggcta tgcgggccag 660
gtctgcggca ctgggatctc catatcgcct actagctggg ataccaagcc accgctgaac 720
attaacgatg accagatctt ccctggtatg acgcagaagc ctcaagagca gaggggcgct 780
tccgaaatga tattctgctt gtcgcggatt gaactgtcca atttttacat ccgaacgggt 840
atcgaaatga aagaaattgg tggtactata caattcaagg atgcaaaaga aattgagagg 900
ctcgtccact atgtctaa 918

<210> 3813
<211> 579
<212> DNA
<213> A.fumigatus

<400> 3813
aagaaattgg tggtactata caattcaagg atgcaaaaga aattgagagg ctcgtccact 60
atgtctaata tctcatctga gacaaagttt cttcgctact gcgaaatcct ggacccccctg 120
cacgttttca ccatggggat tgtacgatct gccaccaatg ccgttcgatt gcgtgctcaa 180
atgcccctac tgctgaagca aaccattacc gacgcgcaaa ggagatgcct ctgcgctctc 240
gcagaaaaga tcctcgatac aaacagcgcc atctaccgca accccagcat gaatagattc 300
cggtggcaga tgcaagcctt cttcttgtgg gatgcccttc tctgtatttt gctaagcctg 360
acacaagtcg gattctactc gacgtcggag ctaaacagta cctggaacag ggtcgcagaa 420
gtttatgcga atcacgaata tcttatcaaa cgcaagaaag ccctgcatgt caccattggc 480
aggttaactc tcaaggcctg gattgccaat cctccgagta actcgtcccc agaaccggct 540
ttcataacca cgctgcgcgc ccaacatgaa ccgaaagtc 579

<210> 3814
<211> 666
<212> DNA
<213> A.fumigatus

<400> 3814
ctcttccatt tagtctacaa gctggcagct tacctgcctc cttctattgt gtcatttgtg 60
gaagataaag tgatttccat tcggcgcttc ctcgaggaca acggcattct gcccaagaag 120
gaagaaagct cgaccggcga atccaaggct gtgaccgaag ctcgcgaggg tcttgaaaag 180
accaagacca gccttgcgga actatacacg cagttgaaaa accatcaagc cgaccttgaa 240
accgactatg gaaaggcagg tgttttccgc gctcttaaag gcgtttgcat ctccaaagat 300
tccggggagt acacgtatga gcattgcttc ttgggcgaga ccaaacagat tcccaagaaa 360
ggtggtgcaa ctattcggat gggtaaattc ggtcgtatcg gatccgtcat tatagacaac 420
gtcaacgaga ccggcgtgat tgtgcccgag gagcgggttt ctcttgagta cacgaacggg 480
cagacctgct ggaacggacc agctcggtcc accacagtca tcttggagtg tggcgaagaa 540
aatgagatcc tcaaagtgac agaggacgag aagtgtgtct actccatgat cgtcaccacc 600
ccggcggtat gtccgggagg agaagaagaa ggcgatgtgg caccaaggcg caaggatgaa 660
ctgtag 666

<210> 3815
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3815
acgtgcgatc ttccagcggc gtgtgtcaga cgggaggagt atggtgccag agaagatgtg 60
ggcaatctcg gaaacagcgc ccgcgaccga gatctggatg aaattgccaa acctgatgac 120
aacacatcgg gagtcaactg ggagcagtgg gaaaatgagg aggacgagac cgacgcaggt 180
tcgtgcttga tctatttcat tgcgtatgcc ggttcggttg ctgactcttc catttag 237

<210> 3816
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3816
tcccaattga agcccacttt acagccccgt ggtgaagaca cccgcctcta tgaattagcc 60
tatgtggcat acgggatatc ctatcgcgga gtgtggattc cccgattgaa ttgctgggat 120
acaatacggc aaatggcaaa ctacattaag acccagggta agtggaggct actgaattgt 180
acaaaggatg atgcaccaaa cccggcagct caatcctcag cctgtgtgag gattatgacc 240
atagaggatt ag 252

<210> 3817
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3817
ctcataccgg cagcccgtct agatgacacg atattgaatg ttgatatctg tttgatgatc 60
ggctatcctc gaaatatcta caacaatgtt cggtctactt atgctctccg cgacctcgtc 120
actcacggat ggctagggta tcagtgtcat cgggagcgcg gagggacagt cgacaccaaa 180
caatga 186

<210> 3818
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3818
gaggaagaat acgacccgaa gctttggatc gaagcaactg tcaaaaagga aatgctgtct 60

gtgccctttg atcagttcgt tcagttgcag ctttgcttct gttggtgcac cgttagtgtt 120
tatcttacta catctggcaa cacttgcatg taccaagagt gcttgagcga aacgcagttg 180
gcaattctca acgtgttggg gtggagagcg caacccgcga actggctact cacgtaa 237

<210> 3819
<211> 624
<212> DNA
<213> A.fumigatus

<400> 3819
aagcccaaac tccgcttggc agcaagaaac cgtccaaaac gggcttcgtg ccccaccaca 60
tctaccagaa acagtcaatc tggtaccact acgtacgcca gaaatatggc ctcccgctgg 120
acagccgcca cctctacacg aagacggact gggagttctt tgcgatggcg gtcgccagcg 180
agcgcacgcg cagcgagatc ctcgagtcag tcgccaaatg ggtcaacgag accgtcaccg 240
accggccgtt cacggatctc cacaatacag aggggcgcgg cgagttcccc ggccccaatt 300
tcttcgcgcg gccggtcgtc ggcggccatt ttgcgttctt ggcgctgcag cgtgcttgtg 360
gcggacgggc gatggaggcg ctggcgttcc tcgatgataa ctccgatcgg gagacgctgc 420
aggagtggat ggcggctgct gccaaagccg tggaggagtt gcagacgcag tctgatattt 480
gggggtatgg gtccgacaat ggggagctgt aagataaaaa aaaactgcag tgaactccca 540
gtttgggagc tgttggctat ggtactccgt tggatatgtc ccatgtatct tttgattatg 600
gcgttgatag tggcctctgt ataa 624

<210> 3820
<211> 633
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (87)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3820
tatcctgatc cttgcgcccg cggtgaagac ggtcctggac taccatctac aacctatacg 60
ccgacgccca gctctgcttc cacctgngaa ggcaccgact ccttcccggc ctccctcctg 120
aaagcccaaa ctccgcttgg cagcaagaaa ccgtccaaaa cgggcttcgt gccccaccac 180
atctaccaga aacagtcaat ctggtaccac tacgtacgcc agaaatatgg cctcccgctg 240
gacagccgcc acctctacac gaagacggac tgggagttct ttgcgatggc ggtcgccagc 300
gagcgcacgc gcagcgagat cctcgagtca gtcgccaaat gggtcaacga gaccgtcacc 360
gaccggccgt tcacggatct ccacaataca gaggggcgcg gcgagttccc cggccccaat 420
ttcttcgcgc ggccggtcgt cggcggccat tttgcgttct tggcgctgca gcgtgcttgt 480
ggcggacggg cgatggaggc gctggcgttc ctcgatgata actccgatcg ggagacgctg 540
caggagtgga tggcggctgc tgccaaagcc gtggaggagt tgcagacgca gtctgatatt 600
tgggggtatg ggtccgacaa tggggagctg taa 633

<210> 3821
<211> 705
<212> DNA
<213> A.fumigatus

<400> 3821
aaccgcgcag ggtccaagtt cggtggcggt ggtgttgcat cgcactccgc aacgaacgca 60
gaccgtcgcg agcgtcttcg caagctcgcc ctcgagacaa tcgacctcga caaagacccc 120
tacttcttca agaaccatgt cggaagcttc gaatgccgtc tctgcttgac agtccaccag 180
aacgatggct catatctggc ccatacccag ggccgcaagc accagacaaa cctggccaga 240
cgtgccgcgc gggagcagcg cgagggcaaa aatcaagatc cggcgatgtt gcccggcgcg 300

atgggtgtgc aggttaagaa acaggctatc aagatcggac ggcccggtta caagattacc 360
aagattaggg atcccttgac gaggcagctc ggcctgctgt tccagttaca gtatcaggag 420
attacgcctg gggtcaagcc ccgagtacgg tttatgtctg ccttcgagca gaaggtagag 480
gagccgcccg acaagaactt ccagtatctc gttgtcgctg ccgagccata tcagacgtgt 540
ggtttcaaat tgcaggccag agagatcgac cgcagagagg gtcgctattg gacctggttt 600
gatgaggaca gcaaggagtt ttggattcag atcatgttca aaaccgagcg agaagagcga 660
tttagtggtg ttccgggtct ggcaccaatg ggacccaaaa cttaa 705

<210> 3822
<211> 255
<212> DNA
<213> A.fumigatus

<400> 3822
ttttcggaat gggacttttc ccgcgaatac actttaaaaa cccattctct ttcattgggc 60
tactttctac gtggcatagc ttatctactt tctgtttaca agaatgtgct atttcataga 120
tgcatggctc ttcaaggttc cactttcatc gtggatacat tgaggcccgg tgagcgccat 180
atgtacgacc tagctaaaag acaaaacagc cagtcaagcc atggtctgca cgcttcggag 240
tatgaaagaa gttga 255

<210> 3823
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3823
ctagcaaaga tgtgttgtat aagaaaggaa tctaaaggga ataatactat tatctttgta 60
tgtttacaag aaattaatag taagatagga gccatggcta ttaaagataa gtatctattt 120
ctctcccctc tttgtatatt tatttattac cttaataaag ctttaaagct attaaagggc 180
tag 183

<210> 3824
<211> 1248
<212> DNA
<213> A.fumigatus

<400> 3824
gcgcagtgtc tgaacttgtc tgaagcactt ttaccaatcc agaacacaac cgacacgctt 60
gacgagtttt tgcgccatat cgtggcgaaa gtatacgagc ctcacattga cttgtacctt 120
gcagaagagc tcgaccactt ccggaaaaag tctgcagctg tagtggatga gtgggatagg 180
caactgtcag agcaggctgc ttcgactgaa tcatttctga tgtccaatgt caatcgacag 240
gctgacaagc gtgacttttt gacttcgttt aaaaaagtga ttatggcgcc tgtcaacatt 300
ctccccagct tttcgagctc caagtcaagc gaaacgaaat ccgatcatga gtccatcggt 360
agcgaaccgt cctcggcgct caagagcccg aacaggtttt ccactattgc atcccctgct 420
cttaccccta cggttgaggc ccctcctacc acagaacttg cagctaaggc ggccgtcatg 480
aaatcaaagt tggagggcat ccggtctctg tttagtatcg aaatcgctct tagcgtaatt 540
cactcggcca agtccagcct cgaccgtgcc gcccaatttg tgaagatagg aggtgagact 600
ggagcggcgg ccaaacagca atgtgaggca attttcgttt cgctcttacg aattttggga 660
catcagcacc ttattgttgg tttcaacaaa gcagtcgacc atctatccaa ctatagacct 720
cgtgaacaag gcgagcgcga ccaagcaggg gttgagcctc tagttacctt cttggagctc 780
gtgaatgttg gtgaccttat attgcaaatg atggatgtct tctacgagca agagcttgtt 840
ggggccaaga tcaccgatcg caatgatttt ctcgatcctg ccgtgaagga aaagaagaaa 900
ttcgagcaga tcctggacga acgtgtcgct gccggattga acaaaggtat cgatgtcctc 960
atggaggaag tagattatat cctcgcgacc agacagcagg ctactgactt caaccccgat 1020
gcctctacgg atccataccg aaagaccatg gatgtagctg tcagtgaggc ggccgcggct 1080
gtggttgacg tcgtttcgtc acatacacag atgttggtag ggagcaccga caagagcacg 1140

ctagatgtct tcaaccagga ggtcggttta agacttttca cagcgttgtg taagcatttg 1200
aagcgtcaga ggatcagcat cgaagggtcc ttgaagctta taaggtga 1248

<210> 3825
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3825
agccttcgct gtaaatatgt tggattctct tgtcttgttc ttctaccctc tgaaagagga 60
tggccacgat tgagatttta ttccaccttt atcctctttg atctcgtgtt cgagcctact 120
gaggagcttc ttaactgtct attaatagct ctgggagcgt atactaagaa ggttctccag 180
tga 183

<210> 3826
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3826
ccaggattac ctatgatcca tgtactgtgt agttctaccc tgtacgttcc caaattggta 60
tctggtaaga aacaaggtac ggaaagcagg tcgcagggca agtaccggcc gtcgatcact 120
cgccatatgg accgggtcta cggagcgtct acggagctgt cgtttggcct tctaattgca 180
gtaggtaaat cactggtagc ctga 204

<210> 3827
<211> 333
<212> DNA
<213> A.fumigatus

<400> 3827
gtaatcctgg ctattatttt cctgggattt tgtcttagtt gcccactctt gattattaat 60
ttcgttttcc ttttcacctt tctgcctttg tccggttttg agattatcct aatttatctc 120
agttatgttg ttgtgcttgg atattatgag atacagtacc ctcatagcat ggcaagaata 180
gccttaattt caggattaac attcaagcaa tctagagaaa taatgtacag gctttgtttt 240
ttgtccacct ttcaagctgg tttttgttta attaaattag gtggcatcat gagttgcggc 300
cttcatcaag caacaaacct atatacggac tag 333

<210> 3828
<211> 426
<212> DNA
<213> A.fumigatus

<400> 3828
actcgttgcc atagtcgacg ctctcccaac ctcgctgccg caataaacaa gatgcacatt 60
gcacaacttt cgaattctag tgcgtcacat tcaaaaagtt cacagtcgca tagcacaagc 120
gcatatggac cccgcccttc tacttcagcg actaatatga ctgatttgag tgaagaaacg 180
agctctgtca acgcaaagca ggcgaacccc caactactca cgcagtactt gaacaaggat 240
cacggcctgc ttgttcagaa aactacggca ttggcagtgt ctcaaaatgt gaatgcccat 300
gcgttcctcg ctggtgtcga aggcatgctg aacagaccgt atctgagcga tatcaatcat 360
ggtgacgaca agatgcaggc cctggcccag cacgcaaagc tgggaaaatt tgacaagcat 420
atgtga 426

<210> 3829
<211> 282
<212> DNA

<213> A.fumigatus

<400> 3829
aattcgaaag ttgtgcaatg tgcatcttgt ttattgcggc agcgaggttg ggagagcgtc 60
gactatggca acgagttcac atggtttagc tcaactgtcc ctactgatat agaggagccc 120
ttacctctct tgatgcgttt ccaaatcgtt ctcgctctgt tgaccgtgga acgagtcctc 180
acctaccgaa cgctggctgg tttcgtcagc gataataacc ttgaactaag cgtggcaggc 240
acagagaaac gcgtactcct cgctacgacc agtagcccat ga 282

<210> 3830
<211> 495
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (15),(47),(82),(83)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3830
cacggtgaag atgcngattt ggccttgcaa cgcgaaactc attcganatc gcataaaacg 60
acatatgtct caaccagtgt annccgcgcc cctgagtttc tcctgcgtgc gggagaatac 120
tctgcgcctg tagatatgtg ggctgttggt gccatggcag ttgaaatcgc gaccctgaag 180
ccgttgttcc ctggtggcaa cgaggttgac caggtctggc gcatatgtga gataatgggc 240
agtcctggca actggtacag caagtcaggc accaagctgg gtggtggtga gtggagggaa 300
ggctctcgct tggctcagaa gctagggttc acatttccaa aggtacggag attcgtcttg 360
gtcacggagc tcgagagaat tgctaacgtc ggtcgaacag atggcgcctc attctatgga 420
gagcatcctg cagcctcctc actggcctgc atctttgagc catttcgtga cttggtgcct 480
gatgtgggac cctaa 495

<210> 3831
<211> 1074
<212> DNA
<213> A.fumigatus

<400> 3831
ggttcacatt tccaaaggta cggagattcg tcttggtcac ggagctcgag agaattgcta 60
acgtcggtcg aacagatggc gcctcattct atggagagca tcctgcagcc tcctcactgg 120
cctgcatctt tgagccattt cgtgacttgg tgcctgatgt gggaccctaa gaacagacca 180
acttccacac aggcattgaa tcacgagtac ttcgcagatg ctgtggatcc tttgcggcca 240
aaatcttcca cctcgcggct gcttggccgc aaacagtcgg ataggagctt cagatctccc 300
actcctcagt cgagcgactc ccccagcgtg tcatcaaagc cttcatggtt tagaagatcg 360
ctgattggaa gatcggaaag cccagcccca gctttagaaa ctgaccaggc tgtccgaccg 420
tctgttgtgt cgtacaacac tacacccgat ctgcaagcca acaagaccag acctgctgcc 480
gctaagcgcg ccacgtgggc caatggggct cctatgccta tcctcccttc aatccgacca 540
gtctctccct tgtctaatgc agttacagct caggcgagct cgactcttgc tcatggtggg 600
gataatgccc agtccggtgc tgcaaaagcg agcaagaaga ttggccgaca actgtctctg 660
aactcccacg gtaatcacta tgccgatgtt cacaggcaag aggcagagcg aacgctcaac 720
ggagccggga ctacgaacgc tacactcaac cagaaagaga gcttcttctc tcacctccgc 780
aagagggctc gccgactctc cggtcgcaac caggccaatc tggcgaccga tgatatcgaa 840
gccaacgctg gctgtatgcc gtggtcaaac cgttcttcgc tcgctttgga ctctgtgaat 900
gcgggagatg cgaagcagaa ttccgacttg aacgacttgg acagggcttt gcagaatgtc 960
aagtactcgc tggactcggc cgctctcgga aacgtccctg tccaaatcac ttcgacgggg 1020
gatgtcagta agccacagtt cttcaccacg aacagccggc ccgcgcttac gaac 1074

<210> 3832

<211> 408
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (395)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3832
tcatcatctg gtatttctaa tgcgttgctc tcgttatgga cgttgactaa cagacacagc 60
tgcttcaccg actgcgcggc ggccactgtt ctggcatacg aggctgccga agcggacgtc 120
ctccttcgcc cgccccgcaa gccgaaaaag gaacggctgg tcaactggaa gctcatcctc 180
caggcatatg gagtgattgg catgctggag actctgacat cgtttgccat ggcgtactgg 240
tatctgcagc gcaatggcat cccattctca gctctgtggt tcaagttcgg cgtggtccca 300
gccaacgtcg atcctgactg gtacactgcg cgactgaacg aagccagttc cgtctatttc 360
atcaacttgg ttgtcatgta tgctgcaccc catancgcgt gtacgaga 408

<210> 3833
<211> 447
<212> DNA
<213> A.fumigatus

<400> 3833
tctccatgcg cgggcgccgg ctcctgtggt agaagaacgt ggatgttagc agattgctta 60
caatcaaggg cgcccctgga tatcctcatc gaccgctgca cgcatgtcgt gaatgttgac 120
ggcaatgtgc aggctctgaa cgccagtacg ctcacccgac tgaagcagat taaagaccaa 180
tggtcaaatg aaggcaaacg cgtgatcctc ctagccagga aaactttctc agcgggccaa 240
atacagagtt cgcccttgtc ccacctgttc gaagccgaag tgatgaacca gatcaagact 300
ggtcttgtct tagtgggtct ggtcggtatc gttgatcctc ctcgagacga gattccagac 360
gtggtcagaa cattgaggcg ggcagggatc agaatcttca tggtaggcgt cgcctcaagc 420
ccattcatct ataagtctgg cgattag 447

<210> 3834
<211> 612
<212> DNA
<213> A.fumigatus

<400> 3834
agtgagtggt acaaggtaac gggtgacttc ggcctgacag ctctcgagat cgcgcggcag 60
tgcggtattg ttactgcagg agtgactgta gacgatgcaa cggccctaaa gagatatccc 120
tcagtcaatg acaaattcaa tgagaagtcc cgatcgcctg caattagcct cagcgggcgt 180
gaactgatgg ctctgaacga acatcagtgg gatcaactcg gtcagtacga ggaaatcgtc 240
ttctggagaa cgactccaga gcagaaactg cggattgttc gtgaattcca agcacgcgag 300
gagatcgtag gcatgaccgg cgacggcgtc aatgacgccc cgtcgctcaa ggcggctgat 360
attggcatcg cgctgggaag cgggtcagat attgccattg aggcgtctga catggttctc 420
ctggactctt tctcggcgat tgtcgaggcc gtgcagtatg gacgagttgt ttttgataac 480
ttgaagaaga ccatcatcta cctgcttccg gctggctcct ggtccgagtt ctggcccgtc 540
atgaccagtg tggtgtttgg tcttccgcag gttttgtcct cgtttctgat gatcatcatc 600
tggtatttct aa 612

<210> 3835
<211> 276
<212> DNA
<213> A.fumigatus

<400> 3835
atgatggtct tcttcaagtt atcaaaaaca actcgtccat actgcacggc ctcgacaatc 60
gccgagaaag agtccaggag aaccatgtca gacgcctcaa tggcaatatc tgacccgctt 120
cccagcgcga tgccaatatc agccgccttg agcgacgggg cgtcattgac gccgtcgccg 180
gtcatgccta cgatctcctc gcgtgcttgg aattcacgaa caatccgcag tttctgctct 240
ggagtcgttc tccagaagac gatttcctcg tactga 276

<210> 3836
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3836
ctcaagggag ttttggtaat tgtatgtctt tcgtactgcg ctgagatccc tgaacgacaa 60
tcatcagcca tgtcttctgc tgtagcagag ttggagaatt atctccagtc tatgctggct 120
ctcaagcccc caggcgtctc tggatctaag atcaacagca tcacgtcgct ttgtacagcc 180
aacgttcagg tatga 195

<210> 3837
<211> 189
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (181)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3837
tgggggtgtg ctttaaaagg gccctttatt cctaagggac tggttaatat tcccggtccc 60
aagacggcca gtattcgtgc attcggttac gccaccagga atgttcattg ggggccagcc 120
ttgccagttg ggtggccctg cctggagcgt ggtttctacc atggtagagt tacagagtct 180
nagcaatag 189

<210> 3838
<211> 693
<212> DNA
<213> A.fumigatus

<400> 3838
gggctgaaag cgtacgccgc cgaccttcca tcaagccacg caagtttcgt attatcgaac 60
aactgctctg tctatcatct cggatcgtgc gaactcctgt ccatcatgcg ggaggtgaac 120
ttcagcattc ccaatgttaa caaagcctat gtcaatatta gtacaaccct atatgaccgg 180
cgggccctcg attgcacatc aaccttaccc ctcataaact ctctcaatca tcttgcatat 240
ctcactacat cctctgcccg tattcgcgat attctcaccg tcgatggcgg cattgaaaga 300
cttgtgtgca tcctcaaaga aggccggagc agggatctca tggagatgtg gaagtggagt 360
ctggcctttc aatgtgttgt gaatatcgga gtgagaggtt cggaaagtgt gagaacaagg 420
gttgtcgagg ccgatatggt gccggtaatt gcaacgatcc tggataacta catcaaggtt 480
gtcgacaagg cacgagcccg ggccgattcc gagtctcaaa gacagtcatc cagacatcat 540
tcgaaagctg tgccaacatc aaatgatgta tctggacgtc cgtccttcct ggaacagcca 600
ttgacagctg aacagcgtac ctctcgtcgc cacgcccccc ctagtctcga aatcccaccc 660
gttttagaca gcgggccctg gaagatcaga tag 693

<210> 3839
<211> 222
<212> DNA

<213> A.fumigatus

<400> 3839
atcgagatgg attcatactt cacacggtac cacgaagtca agacggccga ggtggagaag 60
ggcctcgaca tccatatggg gtacatggac aatgctgtta tgagctatgc ctgctttggg 120
gtctatgagg agctagcaaa atatctcgtc cagcgttatc ccaataactt tcggttgcaa 180
aagtactacc ctgcacaact gacccgcgaa cagttccaat ga 222

<210> 3840
<211> 321
<212> DNA
<213> A.fumigatus

<400> 3840
tttgtcgtaa aaagttggct ccaaataaac gaccttgttg tagagccttg gcagagtgat 60
ttcactatga atcacttcca tgcgatgccg tacgacaagg ctctgaagcg tggcgcgaag 120
agcctgcact tttcgacgtt tcccatcctt cccaacaagt ctcatgtact tggtccactc 180
ggcatggtca ttggacagag ggttcgacca tggcttcaga tcaaaaaagt tgaccactat 240
gggtttcaac ttcctaagat cttgatcgtc tctcgcctct atcttcctct tttcttgaag 300
aacagcttcg gtagcctctg a 321

<210> 3841
<211> 1983
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (73)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3841
gattctgcct tggcagtcat ccttggcaac acggtgtcaa gttccttcca tacccgcttt 60
tgtaccgggg aangagaagt cagacgtgaa aaatgtgcga gccttgttga gatggcggcg 120
acagctgctg gccagtcttc gatgccttgg aagagctatt ttgatcgtct cggccgttct 180
ggaatgactt ttacaaggtg catcaaagct tgcgaggata atagaggctc gtataagata 240
cctccaccac ctacacgaca cagtggtcgc tctggcgtcg catatcccag gccacctcct 300
cagcttgtgc ggctcacctc ggggacattg attgttgtac ctcccaactt ggttgaccac 360
tgggaagaac aaattgctcg gcacagccaa gggcttaaag ttctcgtctt acgaaacatg 420
tcgaatgcta ctcccaattc ggatgacctc ttgcagtacg acattatctt gttttcaaga 480
tggcgtttcg accaggaggc cggcgaagca gtcaacaaca gacgcggcgt cttcaacaac 540
acaatggagt ctccattgtt tagccttcat tggcttcgta tcatcattga cgaaggccac 600
aacgtagctg gatctagcca aacttcaaga acaagatacc ttctggacaa attgcatatt 660
gagcgccgtt ggattgtgtc tggaacaccg tccagcggcc tttatggagt ggaggtgagc 720
ttggcttcac acgaaacgaa taccagcagc gacaccgatc tatcagaggc taccgaagct 780
gttcttcaag aaaagaggaa gatagaggcg agagacgatc aagatcttag gaagttgaaa 840
cccatagtgg tcaacttttt tgatctgaag ccatggtcga accctctgtc caatgaccat 900
gccgagtgga ccaagtacat gagacttgtt gggaaggatg ggaaacgtcg aaaagtgcag 960
gctcttcgcg ccacgcttca gagccttgtc gtacggcatc gcatggaagt gattcatagt 1020
gaaatcactc tgccaaggct ctacaacaag gtcgtttatt tggagccaac tttttacgac 1080
aaactaaacc taaacctgtt tatattcgtt ttggcagtca acgcaataac atcagaacgg 1140
gaaggtgatg attacatgtt ccatacaaag aataagaagc atttgaggac tttgatcaac 1200
aatctccggc aggctgggtt ttggtgggca ggctcgaatc tggacctttc tgcgaccgtg 1260
aagaatgctc tggaatacct ggagaaaaag agagctcata tgagacagga ggatatcaca 1320
actttgactg aggggataga gatagccgaa aaggcattct ccagcggacc atggaatgca 1380
tttaggcagc tgaatgaact gggtgtctac gttcgcgatt ttccttctca tgctcgaggc 1440

ttgtgggcac ttgacccttc gaaaccagac gctgagcccc tccatatggg catctaccag 1500
gcttgtcgcg cgcagcaatt tgtcaaagaa cacttgaaat cggtggaccc agccgaaggc 1560
ctcgctggag cgggcataaa agcccgccgt gagcaaacag aagctgcaaa gaggcaaggc 1620
cctgagttag gctttgcaac cttcccaaag gcttcgaaga aggcgccgaa gaagtcattc 1680
tccaaaggtc taatgaagtc tctaccaccg gactctcccc tgacacagac caagttgctt 1740
ggtacgacat cggccaagct gtcgtatcta cttagtcggg ttatggaatt gcacagtgag 1800
gagacgatta ttattttcta tgatagcacg aattcgggcg tttggattgc cgagggtctt 1860
gatctgcttg gcattgaata cagcatgtat gcgagtacgc ttagtcccga gctccggacg 1920
agttacttga atcttttgcg agaaagcgaa gaaaatccga taattttgat gggcctgcgt 1980
taa 1983

<210> 3842
<211> 369
<212> DNA
<213> A.fumigatus

<400> 3842
accgtctacg tgacaatggt catgtacgga ccgacagcat tcctgaccaa gatctcactc 60
ctctggatta tgaccagagt gttcagcccc tatcgcaaag ccgtttttt catctacatc 120
ttcctagtaa tcatgcttct ctactacatc cccgccgtga tcgtcaaaat ccgcatctgc 180
aacccaatcg gtaaattttg ggacgatagt ataaacggca gctgcctgga ccagtcggca 240
atcatcctcg ccgacgcagt cgtcagcgtc gttagcgacg ccatcatcct catcctccct 300
ctcccgctga cactgagcct ccaaatgtct atgcgcaaga aggtgcgcgt gacgggcccc 360
ctcggcgct 369

<210> 3843
<211> 219
<212> DNA
<213> A.fumigatus

<400> 3843
ccatacctgc acatcttaga atccagaggt tacccaacgg tgcaactgac tctcaacgtt 60
gcctttcaca ttattatgaa tgaccatgtc cactcttccc atgtaatttg tctgactgcc 120
gtctggccgc aaatcacaag aattatcact atcaagaaat atcactctct ggaagccatg 180
tcgaagccta gcataaacta ctatctgtcc agttcctga 219

<210> 3844
<211> 1530
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (446)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3844
cgtaccaaag gtgggttgca cagtcccttc aagaggtatg aggaacccgg tcgctcaact 60
cagcacagac tacgtgattc cactctcact ccatccaagc cgaaatcatt ctttttcagc 120
tcatatgcca cattaacagc tgtagttcgt gaagcgagct atgcgacgtt gcccccgata 180
acgattcgcg gtcgatcctt ccactttgct cctctgggac cgattgccat cattctggcc 240
aacctcgtag tggtcctcgt tttctgcttc tacaaactgg atacgacgaa taaatggaaa 300
tgggaagacg tcggctatcg aaccggcttt gttgccattt cccagctgcc attgatcttt 360
ctgctggcgg gaagacaaaa catcattgga ttgtttgttg ggttgagcta caaacgcctg 420
aactggttcc accgttggat ttctangact ctatggttga ctgcgactat tcacatgggc 480
ttctggttcc gaaactgggc ccgatatgac tatatcacgt atgagctgca gaacgacgtc 540

ctgacacaac gaggatttgc tgcatggtgc atcctgacat tcatcgtcat ctcatcggcg 600
gcgccaattc gaagactgag ctatgaactg ttcgtcttgc agcatctggt gacgttcgct 660
gggttccttg ctgcagtctg gcttcatgcg cgggcggagg tcaaggcttg ggtgtggatt 720
tccataggat ttctggtgtt tgatcgggta gctcggtatg tgtgggcagc atatgccaac 780
ctgtcaattt tccatgcgtc gaaatcaaat ccgcatcctc tttgggcgaa cgtcgcaact 840
ttcactccat taccgggtaa cgtcactcgg attacagtcg agaatccagg tgttcggtgg 900
aagcccggac agcatgtgtt tctcacttgt cactccatcg tgcctctgca gagtcaccca 960
ttcaccatca cttcgattcc ggacgacggt aagatggaat tctttgtgcg agccgaaaag 1020
ggtggtacaa ggcggttctt ccgttacgcc tcgaagcacc atcttgccct cggatccggc 1080
gaggtttcaa ctgcccaacg acctcgcacg gtgtttatcg acggtccata cggcaggatc 1140
cgggccctga ggcaatttga cagcgttgtt ctcctcgcag gcggcatggg agccactttt 1200
accattcccc tattgcgaga catcgttgca gggtggaaag cagaatgtgc tggaaattct 1260
acacgccgca ttgcggcgac caagcgaatt cgatttgtgt gggtcatcaa gtcccgcgct 1320
caactcagct ggttcgaaac tcagatccag tctgtattat ccgacgtcga caaatgtcga 1380
caggcccaac ctgatatgat cagagaatgg gaagtgagta tctacatcac ttgcgaatta 1440
gaaactggaa caccaaccaa ccgaaaaacc cctggtctac aaaccgccat cttcctccca 1500
acgaaaaccc caaagggcat tgaacccccc 1530

<210> 3845
<211> 474
<212> DNA
<213> A.fumigatus

<400> 3845
agagaaattt tttcacactt cggaaatctc acctaccctc acattcttat tgatctagcg 60
tttatggtgt cggactcgaa ggatgatacg ttgggaatgc tgacgcgtat gctcgaggag 120
gtccaaaacg atcctgatcc caagatgacg ttcggagaaa tttcggtcat acaaaaggat 180
tttgggcaga aggtgcagca ggatgtggaa agcagacatg gatttgctgc acaggcggga 240
cggaggaaac tgatggccca ggcgaggaat tggctgctga gtgctaccct acgcccgacg 300
catagctggg tttactggag agacgccgat gttgagactg ctcctcgaac tatcctggag 360
gacttgatgc ggcatgacaa agatgtcatt gtacccagta ggttgtaccc tctggatttt 420
tgcgatttgc gatctaatag gcctggcaat agatgtctgg cgaccactcc ctga 474

<210> 3846
<211> 447
<212> DNA
<213> A.fumigatus

<400> 3846
tgcggcatga caaagatgtc attgtaccca gtaggttgta ccctctggat ttttgcgatt 60
tgcgatctaa taggcctggc aatagatgtc tggcgaccac tccctgactg gttgggtggg 120
gaacagccct atgacttgaa ctcatggcag gagtcggaga cggctttggc tctggctgaa 180
acattggacg aggatgcggt gattgtagag ggatatgccg agtatgctac ctggcggcct 240
catctcgcct accttcgtga tccatttggt gatcctgaca tggaaatgga gttggatggt 300
gtcgggggtg tcagtatctt agccaaggca aaggtatttc gttctggagt tcattttccc 360
gctttcagtt tcgagaagca cgccgaaact gaagcgtttg ggaaagtaag tgtcgtcttg 420
attccttgtg cggtgcgcaa atgctaa 447

<210> 3847
<211> 288
<212> DNA
<213> A.fumigatus

<400> 3847
atggctaagc gaatgggatt atcggtcatc ggtcttcctc actacacgat ctggcacctt 60
tatgaaccca gcgtagacga ccttagacac atggaagaaa tggagcagga gcggaaggct 120

agggagaggg aagagaagga gcaagccgaa cgagctgagc gcatgaaggc cctcttcgtg 180
gaacccgggc cgcaatggga tatcgacaaa gctttcgtgc aggattcaat ccaaactgac 240
aaagaggggc gttttcaaca cgccacagac ggacaattgt caaatcta 288

<210> 3848
<211> 663
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (8)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3848
tgttatgntt gccggggagc acccaaattg tgtcgtaatt ttcaaactaa ttgcattaca 60
ctgtcaaggg ttcttttgct cttaacccag gtgagctatg tttaccatct gttctcaaat 120
gatggcgcca tcgccaacgc agctgccaac gtcggatctc atttcatctt gaacaacctc 180
tttaccctcg cctggatcct tttatggact cgcggccact tctgggcctc agaagtcatg 240
ctggccgcaa actacctcaa tcagcatgct gcctactggc gtcaccgaac cctgccgacg 300
tttgtacatc tatcggcaat cgcaggcccc tacgcctgga cgctgatggc acttttctgg 360
aatggagccg tcgcagttgg cagcaatagt ttccccgctc gtattgctgc caatatcttc 420
atctggttga ttttcgcctt cggctcgacc cacatcttgg cgacccaaga tgacctcttg 480
ggctactgtc tgacgttctt gactcttggt aagtctggcc taccttgtat gggagagaca 540
cagaggctga ctctttgcag ccttggccat cgagcaacta gcaatcaagg tcattgctct 600
gcaatggatc tttgcctttg tcatcttcgc agtcttcctc gtcgagtcga tttacctctc 660
tag 663

<210> 3849
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3849
ctctttgcag ccttggccat cgagcaacta gcaatcaagg tcattgctct gcaatggatc 60
tttgcctttg tcatcttcgc agtcttcctc gtcgagtcga tttacctctc tagcaccaag 120
tactccggtc gcgactcgct attccgtaga attacggagc ctgagcctac tgaccgcgag 180
agagagcctc tgctcaacag tgccgccaat ccttga 216

<210> 3850
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3850
ttattgatgt gcaccaagtc tcatgaactg tatcatgtgc tctcccctct ccatttgctc 60
cccctacctt ccagtctatt accacttact caaatatccg ataataaccc ctctgactgg 120
ctaaaactta ttgattatct gcttgaactt accttctgct gcgttgtcct actatattgc 180
ctaccttaa 189

<210> 3851
<211> 447
<212> DNA
<213> A.fumigatus

<400> 3851

gtatcgggac ggatatcggg ggctcgatcc gcatcccagc tgccttgcag ggtctttact 60
ctatctgtcc gacaacaggc cgtgtcccgt gggactgttc tttgtgagat tcatcaaaac 120
catgcgtccc ggaagaacgg ctggactgac gcgcattaca gtatgcatca gcactacctt 180
gttcccccag tcgcagggcc catggctcga agcatcacga caattgagta ctttatgcag 240
tcacttctcg attcgaaccc ctgggacatc gaccccggtt gcatacccat tccgtggagg 300
aaggagttag cggccatgcc tgaccgtaaa ctcaagttgg gggtcatctt cgacgacgga 360
gtggtcaagc cacagccgcc tataactcgt gctctacgcg aagtaacaag aaaacttgca 420
gcagctggcc atgaaggtat tctctga 447

<210> 3852
<211> 276
<212> DNA
<213> A.fumigatus

<400> 3852
tggtatgcgt gctgcctcag tctgtctacg tctgctgaca agactcagat gtctgactca 60
tacaatcaca tcttcggcca atctatcaac gcgttcaacc acgagctcat ctccggcggc 120
agctctggag gcgaaggtgc tctgctcggt gcgcgaggga gcattctagg tatcgggacg 180
gatatcgggg gctcgatccg catcccagct gccttgcagg gtctttactc tatctgtccg 240
acaacaggcc gtgtcccgtg ggactgttct ttgtga 276

<210> 3853
<211> 915
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (21),(33)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3853
tttacgcatc acttttgccc nccgtcagct aanatcgacc acggcctgta cgacggaacg 60
cttctccgca tattcggcga gcacttccag gcttaccaag acaatgttcc tgtggaccgc 120
ttcacttcat tcaaagactt tgcattccac atctggcaga tggacaagtc gcgcacgctg 180
tcgttctgga agcaatctga gaagcaccct attgccttcg aattccccag cagcagtggc 240
accgaaccac gtatcaactc tgtgcatgtc cacaccatca accttgagtt tgatgcgttc 300
gccaagtcca ccggtgccac tgtctccatc atcttccagt ccatcttcca gctctggctg 360
gcgctgcgca gcaaccaacg cgacgtcgct ttcgactacc tctacaccgg tcgcaacatt 420
gacctgcctg accctcaaac catcaacggc acctgtgcaa acttccttcc catgcggtcg 480
aaagtggacc cgtcaatgcc tgtgtcggaa ttccttcgtc aaacccagga tgaattctgg 540
cagtacaccg aaaacagtac ggtcggcatg gacgagatcc acgaagcctg tgaaacgacg 600
cgtgaaggat tctcgaacaa aactctcttc ctcttccagc catttgaacc ggccccggcg 660
acagcaaagc aatatgagaa gtggattgtg atggccaagt cccaggtgac gatgccgcag 720
ccatatgcgg tcgtatttga ggttgtcaag acagcggatg tcaacgagta taagctcaag 780
tttgcctttg acaaacgtgt ttatgagaaa gaacaagtac agggggaggc acaggtgatt 840
gagaagttgt tggccaaggt catggagaat gctgaggcgt ctgtgggtga tgttctggga 900
tcgtttcgct cttga 915

<210> 3854
<211> 690
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (20),(32)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3854
ttacgcatca cttttgcccn ccgtcagcta anatcgacca cggcctgtac gacggaacgc 60
ttctccgcat attcggcgag cacttccagg cttaccaaga caatgttcct gtggaccgct 120
tcacttcatt caaagacttt gcattccaca tctggcagat ggacaagtcg cgcacgctgt 180
cgttctggaa gcaatctgag aagcacccta ttgccttcga attccccagc agcagtggca 240
ccgaaccacg tatcaactct gtgcatgtcc acaccatcaa ccttgagttt gatgcgttcg 300
ccaagtccac cggtgccact gtctccatca tcttccagtc catcttccag ctctggctgg 360
cgctgcgcag caaccaacgc gacgtcgctt tcgactacct ctacaccggt cgcaacattg 420
acctgcctga ccctcaaacc atcaacggca cctgtgcaaa cttccttccc atgcggtcga 480
aagtggaccc gtcaatgcct gtgtcggaat tccttcgtca aacccaggat gaattctggc 540
agtacaccga aaacagtacg gtcggcatgg acgagatcca cgaagcctgt gaaacgacgc 600
gtgaaggatt ctcgaacaaa actctcttcc tcttccagcc atttgaaccg gccccggcga 660
cagcaaagca atatgagaag tggattgtga 690

<210> 3855
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3855
tcccccagta ataattgcgg atccggcctg ctccgaggtg aagacctagt actctactat 60
caattcgacg tgcgggcctt gcgcaagctt gagatatggt atatagccat cattacatcc 120
cttgtgtcta ttcctgcgat cgtcttttta tttatccata cacccgagaa agggcccatg 180
tatggtggcg taactgtaag ttag 204

<210> 3856
<211> 1194
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (808)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3856
gcattggacc ctccggtagc aaccctggat gagttcgtca agcaggtgct tcccgccgac 60
atcctgtcca agaaagatct cacggtcacc cctccgagcg ccgacatcaa cctgcctcgc 120
tccagtgtac acggtggctt gggagagacg gatatgctga agctgcttga gacctaccgc 180
aagcagattg acatctccgg caagtcatac ctgggaaccg gctactaccc caccattgtt 240
cccccggtta tcctccgcaa cattctggaa aaccccgctt ggtacaccag ctacacaccc 300
taccagcctg aaatcagtca aggccgtctg gaatcgctcc tgaacttcca gaccttgacc 360
gccgatctga ccggcttgcc attcgccaat gcttccgtcc tggatgaggc taccgctgcc 420
gccgaggcca tgaccatgtc tctggccacc ctccccatgg ctaagcagaa gaagcccggc 480
aaggcgtatg tggtgtccca tctgtgccac cctcagacca ttgccgtcat gcagtctcgc 540
gctgaaggat tcgggatcaa tctggtggtg ggtgacatca tggcgaacga ctttgagctg 600
gtgaagaaac agggtgacaa cctcattggt gttctcgcgc aataccccga taccgagggt 660
ggtgtgtacg atttccaggc tctgagcgac agcatccacg ccgctggtgg caccttcagc 720
gttgctaccg atctcctcgc attgaccctc ctcaaggctc ccggtgagtt cggtgcggat 780
atcgcgtttg ggaatgccca aagattcngt gtccctatgg gattcggtgg tcctcacgca 840
gctttctttg cctgcgccga caagtacaag cggaaggttc catggacggt tgttcggggg 900
gtccaaggaa cgtctgggca accggggctt gaagatggtt tcggcagacc cgggaaaaac 960
acatccgtcg gggaaaaggc cactagcaac atttgcaccg ctcaagctct gcttgccaac 1020

atgagtgcca tatatgcggt ataccacggt cccggccggc ctcaagtcga tcgctcagcg 1080
tgtcatggcc atgacatcga cgctgcagga gaagctcact gccttgggtt acaatgttcc 1140
tgtcaagggc agcgctattt tcgacaccct gactgtcgag tttggcagca gtga 1194

<210> 3857
<211> 282
<212> DNA
<213> A.fumigatus

<400> 3857
ggagatcggc atcaagtcca ttccccccaa cttggaacgg acctcccccc atcttaccca 60
cccggtgttc aacacacacc attccgaaac cgaaatgcta cgatacatcc gccacctcga 120
gtcgaaagat ctgtctctcg ctcattccat gattcctctt ggctcctgca cgatgaagct 180
caacgcaacc accgagatga tccccgtctc ctggcccgag ttctcccaga tccacccctt 240
catgcccgcc gacaaagcca aggggtacac gcagatgatt ga 282

<210> 3858
<211> 1266
<212> DNA
<213> A.fumigatus

<400> 3858
gtgccatata tgcggtatac cacggtcccg gccggcctca agtcgatcgc tcagcgtgtc 60
atggccatga catcgacgct gcaggagaag ctcactgcct tgggttacaa tgttcctgtc 120
aaggggcagcg ctattttcga caccctgact gtcgagtttg gcagcagtga ggaggctgat 180
gccctgattg cgaccgctca ggagcagaac atcttcatcc gccgcgtgtc ttccagcaag 240
gtcggtatct ctcttgatga gaccgttggt cgcgaagagg tcaagtccct cttgcaggtg 300
tttgccaagc acgctggcaa gggcgaggtt gagctctctg aggagatcgg catcaagtcc 360
attcccccca acttggaacg gacctccccc tatcttaccc acccggtgtt caacacacac 420
cattccgaaa ccgaaatgct acgatacatc cgccacctcg agtcgaaaga tctgtctctc 480
gctcattcca tgattcctct tggctcctgc acgatgaagc tcaacgcaac caccgagatg 540
atccccgtct cctggcccga gttctcccag atccaccccct tcatgcccgc cgacaaagcc 600
aaggggtaca cgcagatgat tgacgacctc gaacggcagc tcgccgacat caccggcatg 660
gccgagatca ccgtgcaacc caactctggt gctcaaggcg agtttgctgg tctgcgtgtc 720
atcaagaagt accatgaagc caacggaggc gagaagcgca atatctgctt gatccctgtc 780
tcggctcatg gcaccaaccc cgccagtgcc gccatggccg gtatgcgtgt ggtctcgatc 840
aagtgcgaca ccaagaccgg caacttggac ctggctgacc tcaaggccaa atgcgagaaa 900
cacaaggatg aacttgcagc catcatgatc acctacccta gcacctttgg tgtgtacgag 960
ccaggtgtta aggaggcctg tgagattgtc caccagcacg gcggacaggt ctacatggat 1020
ggcgccaaca tgaacgcgca gatcggtctg tgctctcccg gtgagattgg tgccgatgtg 1080
tgccacttga acctgcacaa gacgttctgc attccccacg gcggtggtgg ccccggcgtg 1140
ggtcccattg gcgttgccga gcacctgcgt cctttcctgc cttcgcaccc ggccagtgag 1200
tacctgcaat ccaagcgtgc ggcgacctcg tcgcccccca tcagcgctgc tccttggggt 1260
agcgcc 1266

<210> 3859
<211> 828
<212> DNA
<213> A.fumigatus

<400> 3859
ggcgctaccc caaggagcag cgctgatggg gggcgacgag gtcgccgcac gcttggattg 60
caggtactca ctggccgggt gcgaaggcag gaaaggacgc aggtgctcgg caacgccaat 120
gggacccacg ccggggccac caccgccgtg gggaatgcag aacgtcttgt gcaggttcaa 180
gtggcacaca tcggcaccaa tctcaccggg agagcacaga ccgatctgcg cgttcatgtt 240
ggcgccatcc atgtagacct gtccgccgtg ctggtggaca atctcacagg cctccttaac 300

acctggctcg tacacaccaa aggtgctagg gtaggtgatc atgatggctg caagttcatc 360
cttgtgtttc tcgcatttgg ccttgaggtc agccaggtcc aagttgccgg tcttggtgtc 420
gcacttgatc gagaccacac gcataccggc catggcggca ctggcggggt tggtgccatg 480
agccgagaca gggatcaagc agatattgcg cttctcgcct ccgttggctt catggtactt 540
cttgatgaca cgcagaccag caaactcgcc ttgagcacca gagttgggtt gcacggtgat 600
ctcggccatg ccggtgatgt cggcgagctg ccgttcgagg tcgtcaatca tctgcgtgta 660
ccccttggct ttgtcggcgg gcatgaaggg gtggatctgg gagaactcgg gccaggagac 720
ggggatcatc tcggtggttg cgttgagctt catcgtgcag gagccaagag gaatcatgga 780
atgagcgaga gacagatctt tcgactcgag gtggcggatg tatcgtag 828

<210> 3860
<211> 870
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (267)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3860
gcgatcgact tgaggccggc cgggaccgtg gtataccgca tatatggcac tcatgttggc 60
aagcagagct tgagcggtgc aaatgttgct agtggccttt tccccgacgg atgtgttttt 120
cccgggtctg ccgaaaccat cttcaagccc cggttgccca gacgttcctt ggacccccg 180
aacaaccgtc catggaacct tccgcttgta cttgtcggcg caggcaaaga aagctgcgtg 240
aggaccaccg aatcccatag ggacacngaa tctttgggca ttcccaaacg cgatatccgc 300
accgaactca ccgggagcct tgaggagggt caatgcgagg agatcggtag caacgctgaa 360
ggtgccacca gcggcgtgga tgctgtcgct cagagcctgg aaatcgtaca caccaccctc 420
ggtatcgggg tattgcgcga gaacaccaat gaggttgtca ccctgtttct tcaccagctc 480
aaagtcgttc gccatgatgt cacccaccac cagattgatc ccgaatcctt cagcgcgaga 540
ctgcatgacg gcaatggtct gagggtggca cagatgggac accacatacg ccttgccggg 600
cttcttctgc ttagccatgg ggagggtggc cagagacatg gtcatggcct cggcggcagc 660
ggtagcctca tccaggacgg aagcattggc gaatggcaag ccggtcagat cggcggtcaa 720
ggtctggaag ttcaggagcg attccagacg gccttgactg atttcaggct ggtagggtgt 780
gtagctggtg taccaagcgg ggttttccag aatgttgcgg aggataaccg ggggaacaat 840
ggtggggtag tagccggttc ccaggtatga 870

<210> 3861
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3861
tttatggatc gcaagaatgc cttgaagaca accagccaca ttatacaggg gatactgcat 60
catttcactg ctgagctcca gattggccaa tctgagcttt taactacagc caacacggcc 120
tatgttattg tggctgatga tcccagagaa tcgttcgact ggcaattgaa aatcattaac 180
acctga 186

<210> 3862
<211> 576
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (427)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3862
agtggactaa tagtcctcct tggccaacat aagtctcccg ctaagacatc cactgtagac 60
cttgagccct ttgtacgaaa ggtcgtgctc aacgccatgg tgaaaatcgt ctgcgagatt 120
ctgtgcaagc ccggattcaa agaattttac ctggaaaagc accgatggta cgtggaaaag 180
ctgtggcggt acgttggacg tcttgtccca gacataccca actaccagac cgagggccgc 240
accaggatcg cgcaaataat cgcaaagggg cagggtctct cagtcgacat gcttctgact 300
cctctggaat atgtgcatta tttcccggaa agcgatgatg tctttgaccc gattgagatg 360
gtcaacatgg acccaaccaa cgacagatct ccgggcgagc tccggcgctt gtggttcaga 420
atcaaantag cctacacgcc cgtcacctac attcgtgcaa actttgaaga atcatcgaat 480
accgagcttg tcttccggag tgaggtgctg ctgatgcccg agaacagtgc ggcactcatc 540
ccggagtccc tgatatctgg ccttgatggg aactga 576

<210> 3863
<211> 369
<212> DNA
<213> A.fumigatus

<400> 3863
ggcgtcaatt accttcttgc ccctgttaac ttcggaatcc tccttgcttt cccgcggtta 60
cgcgtctggg ccgcaccagc gggttttgtg acaatgtccc tggccctggc gctcagctcg 120
ttgtccacga ccacaacgga gttgatcatc tcccagggtg ttttctacgg ccttggcgcg 180
agtgtcgcgt acacgccgac catcatattc atggatgagt ggtttgcgag acggaagggg 240
cttgcgtttg ggattatgtg ggtgagtatc ccaactctct gcagcttata ttaccatact 300
aaaaaaaaaa gaaggcagga acaggtctcg ccggtgtcgt acttccagtt gtgctacaat 360
ggcttctga 369

<210> 3864
<211> 345
<212> DNA
<213> A.fumigatus

<400> 3864
ttctgcgacg aggcgctgag caccgaggga ggagagtaca ctgctcttgt gactaccccc 60
attaagcgcg agaatgtcaa cgatcgctgg acagtggcat acactgccgt aggtgaaagt 120
ttcacgtttg gcgacaagga gatccctgcg aagccggaag atttcgaatt tgcgagcagg 180
ttttggtctc tcgctgagaa gttgctggca gagggcaaga tcaagccgca ccggcccagg 240
gtgtgtccgg atggattaaa gggtgtgctg aatggcctgc agctcatgag agagggcaag 300
gtcagcggag aaaagttggt gtacaatgtt gctgagacgc cttga 345

<210> 3865
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3865
aaaaaaaaga aggcaggaac aggtctcgcc ggtgtcgtac ttccagttgt gctacaatgg 60
cttctgaata cgtacggata ccgcgtcacc ttgcgcgcct gggctgtgat cctcttcgtg 120
cttgcggcgc ctctgcttta ttttgtgaaa ccggcgcgtg cctatctcgg cgtcgtccag 180
catgcgcacg ttcaacctct ctttcgtcct tga 213

<210> 3866
<211> 336
<212> DNA
<213> A.fumigatus

<400> 3866
gtccacatgc cgaatgcatg ggtatggcca gctaatatgt cccagggtcg tcccatgcgt 60
gtccgtaaca acgcatacat tcagaactgg gaggagaacc gccgagagga gatgaaggag 120
cttacatcca agggaatcat ccctgtcgag cacgattttg agaacctcgg tgacgatgtt 180
gatgacgaga ctctggacaa cgctcgcccg ttcctgatgg gtaaggtttc cgctgtggtc 240
tcggagaaga agcccgccaa ggctatcgtc gacgagatcg tctcggacgc tgctgctctc 300
ttgaagcagg gcaacaggat gcttgccaag ctgtag 336

<210> 3867
<211> 891
<212> DNA
<213> A.fumigatus

<400> 3867
cgtagtgttt cttcggtaga gcaaatccgt accaccgtca ccgatctggt caagatcaac 60
caccccgtcc tggtggcagg tatgaatgtg gccgctggtc ccaagctggc cgccgctgtc 120
accaatgctg gtggcctggg tgtcattggt ggtgtcggct acacacctga aatgctccgt 180
gaacagattg cagagctgaa gagctacctg catgacaaga acgcaccttt tggtgtcgat 240
cttctgcttc ctcaggtcgg aggaagcgct cgtaagacca agtcagaact ccttcctttt 300
tatatatact ctatgctagg acccaggatg ctgacacgtc ttttttctag ctacgactac 360
accaagggca agcttaacga gctggtcgat atcatcattc aggaaggcgc caagctcttc 420
gtatccgctg tcggtgtgcc tcccaagcac gtcgtggaaa aacttcacgc cgctggtgtc 480
ctttacatga acatgattgg tcaccccaag cacgttcaga aggcccttga tgctggtgcc 540
gacatcatct gcgctcaggg tggtgagggc ggtggtcaca ctggtgatgt acctaccacc 600
atcctcatcc ctactgttgc caagctgtgc cagggcaaga agagccctat gactggccag 660
cccgtgcagg tcgttgccgc tggtggtctg ttcaatggca actccctcgc cgctgctctg 720
atgctgggtg cctccgctgt ctggatcggt acccgcttta tcctttccga tgaggccggt 780
gctcctgttg ctcaccagga ggctgtgcgc accgccggtt ttgaggacaa tgttcgcact 840
atcatcttca ctgtaagtcc acatgccgaa tgcatgggta tggccagcta a 891

<210> 3868
<211> 933
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(19),(68),(69),(80),(115),(119),(145),(148),(198),(218),(256),(280),(305),(306)
,(339),(372),(373),(381),(396),(403),(421),(428),(463),(466),(473),(478),(524),
(559),(584),(585),(597),(608),(619),(623),(624),(625),(627),(628),(629),(631),(
636),(638),(639),(640),(643),(646),(647)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3868
caaccaaaaa aaaacacana aaaccacaac ccaccaacca aaaaaaaaaa ccccaccaac 60
acccaaanna aaaccaacan aaccccacca aacccccaca caccaaaaaa aaaanccana 120
aaccaccaac aacaacccac aaaanaanaa aacaaaaccc ccccaaaaca acccaaaaaa 180
acacccccca aaaaaaanaa ccaccaccaa aaaccaancc caaaaaaaaa caaccccaa 240
aaaaaaaaaa aacccncaac caaaacccaa cccccaccan acaaaacacc accaaaaaaa 300
cacannnccc aaaaacccaa accccaccca aaaccaaanc acaccaaaca aaacaaaccc 360
acaaaaaaaa cnnacaaaaa ncaacaaccc cccaancaac aanccaaaca aaacaaaacc 420
ncaaaacnaa accaaaaaaa aaaccccacc accacccaac canaanaccc aanaaaanca 480
accaaaccca aaaccccccc cccccaaaaa acccaccccc aaancacaac aaccaaacac 540
ccaaccccca accaccacnc ccaacacccc cacacaaaca acanncaccc ccaaccnccc 600

aaaacccnac acaatcacna cannnannnc nacaancnnn canacnnaaa caccgtccac 660
ccctcccccc cccccatctg gcccgcgcga ctgctgcttt cgccgcgccg tctcccactc 720
caaccattcc ctccaatcgc taaactcctg gccgtcggct ggccgccccc tctcgcccca 780
gatatacttc cggccgaatt cggcgcgctt gaaggcgtgc ggttcggcga cggcgtggat 840
gcatgcgggg gtgctggttg ttacggcgcg ggcgtaggca ttgccgcggg agccggcgcc 900
gatgaccagg aaacggaggc tacgcccttt tga 933

<210> 3869
<211> 876
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(18),(67),(68),(79),(114),(118),(144),(147),(197),(217),(255),(279),(304),(305)
,(338),(371),(372),(380),(395),(402),(420),(427),(462),(465),(472),(477),(523),
(558),(583),(584),(596),(607),(618),(622),(623),(624),(626),(627),(628),(630),(
635),(637),(638),(639),(642),(645),(646)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3869
aaccaaaaaa aaacacanaa aaccacaacc caccaaccaa aaaaaaaaac cccaccaaca 60
cccaaannaa aaccaacana accccaccaa acccccacac accaaaaaaa aaanccanaa 120
accaccaaca acaacccaca aaanaanaaa acaaaacccc cccaaaacaa cccaaaaaaa 180
caccccccaa aaaaaanaac caccaccaaa aaccaanccc aaaaaaaaac aacccccaaa 240
aaaaaaaaaa acccncaacc aaaacccaac ccccaccana caaaacacca ccaaaaaaac 300
acanncccca aaaacccaaa ccccacccaa aaccaaanca caccaaacaa aacaaaccca 360
caaaaaaaac nnacaaaaan caacaacccc ccaancaaca anccaaacaa aacaaaaccn 420
caaaacnaaa ccaaaaaaaa aaccccacca ccacccaacc anaanaccca anaaaancaa 480
ccaaacccaa aacccccccc ccccaaaaaa cccaccccca aancacaaca accaaacacc 540
caacccccaa ccaccacncc caacaccccc acacaaacaa canncacccc caaccnccca 600
aaacccnaca caatcacnac annnannncn acaancnnnc anacnnaaac accgtccacc 660
cctccccctc ccccatctgg cccgcgcgac tgctgctttc gccgcgccgt ctcccactcc 720
aaccattccc tccaatcgct aaactcctgg ccgtcggctg gccgcccctt ctcgccccag 780
atatacttcc ggccgaattc ggcgcgcttg aaggcgtgcg gttcggcgac ggcgtggatg 840
catgcggggg tgctggttgt tacggcgcgg gcgtag 876

<210> 3870
<211> 741
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222>
(17),(66),(67),(78),(113),(117),(143),(146),(196),(216),(254),(278),(303),(304)
,(337),(370),(371),(379),(394),(401),(419),(426),(461),(464),(471),(476),(522),
(557),(582),(583),(595),(606),(617),(621),(622),(623),(625),(626),(627),(629),(
634),(636),(637),(638),(641),(644),(645)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3870
accaaaaaaa aacacanaaa accacaaccc accaaccaaa aaaaaaaacc ccaccaacac 60
ccaaannaaa accaacanaa ccccaccaaa cccccacaca ccaaaaaaaa aanccanaaa 120
ccaccaacaa caacccacaa aanaanaaaa caaaaccccc ccaaaacaac ccaaaaaaac 180

acccccccaaa aaaaanaacc accaccaaaa accaanccca aaaaaaaaca acccccaaaa 240
aaaaaaaaaa ccncaacca aaacccaacc cccaccanac aaaacaccac caaaaaaaca 300
cannccccaa aaacccaaac cccacccaaa accaaancac accaaacaaa acaaacccac 360
aaaaaaaacn nacaaaaanc aacaaccccc caancaacaa nccaaacaaa acaaaaccnc 420
aaaacnaaac caaaaaaaaa accccaccac cacccaacca naanacccaa naaaancaac 480
caaacccaaa acccccccccc cccaaaaaac ccacccccaa ancacaacaa ccaaacaccc 540
aacccccaac caccacnccc aacacccccа cacaaacaac anncacccccc aaccncccaa 600
aacccnacac aatcacnaca nnnannnncna caancnnnca nacnnaaaca ccgtccaccc 660
ctccccctcc cccatctggc ccgcgcgact gctgctttcg ccgcgccgtc tcccactcca 720
accattccct ccaatcgcta a 741

<210> 3871
<211> 996
<212> DNA
<213> A.fumigatus

<400> 3871
acgaggaccg tcgtaaagct cctcgtgcac gtacagccgt ttttacatca tgcagatttg 60
gctcgagcag aggaaggaga ggatcccaat ctttgcgaac gtcagtcgaa tgcgcatcag 120
ctaacaaacg aggtacatta cctttggaat gaccgcatcg atgttgacat cgtcgcagac 180
gatcgccggg tcgttccccc ccagctccag cgtcacccgc ttcagggtct tcgcacaact 240
cgccatgacg cgcttgcccg tgagaatcga gccggtgaaa ctgatcttgt cgatgcccgg 300
gtgctccgtg atcatcgggc cgaggtcatc gcctccgctc agcgcctgga ccaccccggg 360
cgggaagcac tgcgccgcca gctcggcgag cttcaggccg caatacggcg taaacgggga 420
gggcttgacg atcacggtgt tccccgtgta cacggcgggg acgatcttgc cgacggccag 480
caggacggga aagttccacg gcacgatggc cccgcagacg ccgagcgggg tgtaccgctg 540
gatgatctgg tgttcgtccg tgtcttcgat gaccgtttcg gggatctcga ttgtcgggat 600
ggttcgagcc cactgcacgg ccattccgac ctcgacggtg gactggctga gcggcttgcc 660
ttgttcttgc gtcatgagcc gggccagtgc ctccttgttt gcttcgatct tgtcggcgaa 720
gtggttgaga gcggtgcgac gctcggcgaa cgaggtcttg gaccatttgc ggaacgcttg 780
gcgagcggat tcaacggctc gatcgaggtc ctcttgagtc gaaacgggaa cctcggggtt 840
gggctgcctg ttcgcaggat tgatgccgtg acgggtttgc gaggtcgtgg tcaactcatt 900
gttgatcaca ttgtggaaag tctggactgg ttagtagacg gcgaccgagg ggaacgcata 960
attaccgtaa tgtccaaaga catgatgatg aattga 996

<210> 3872
<211> 693
<212> DNA
<213> A.fumigatus

<400> 3872
caaacgaggt acattacctt tggaatgacc gcatcgatgt tgacatcgtc gcagacgatc 60
gccgggtcgt tccccccccag ctccagcgtc acccgcttca gggtcttcgc acaactcgcc 120
atgacgcgct tgcccgtgag aatcgagccg gtgaaactga tcttgtcgat gcccgggtgc 180
tccgtgatca tcgggccgag gtcatcgcct ccgctcagcg cctggaccac cccgggcggg 240
aagcactgcg ccgccagctc ggcgagcttc aggccgcaat acggcgtaaa cggggagggc 300
ttgacgatca cggtgttccc cgtgtacacg gcggggacga tcttgccgac ggccagcagg 360
acgggaaagt tccacggcac gatggccccg cagacgccga gcggggtgta ccgctggatg 420
atctggtgtt cgtccgtgtc ttcgatgacc gtttcgggga tctcgattgt cgggatggtt 480
cgagcccact gcacggccat tccgacctcg acggtggact ggctgagcgg cttgccttgt 540
tcttgcgtca tgagccgggc cagtgcctcc ttgtttgctt cgatcttgtc ggcgaagtgg 600
ttgagagcgg tgcgacgctc ggcgaacgag gtcttggacc atttgcggaa cgcttggcga 660
gcggattcaa cggctcgatc gaggtcctct tga 693

<210> 3873
<211> 810

<212> DNA
<213> A.fumigatus

<400> 3873
ccagtccaga ctttccacaa tgtgatcaac aatgagttga ccacgacctc gcaaacccgt 60
cacggcatca atcctgcgaa caggcagccc aaccccgagg ttcccgtttc gactcaagag 120
gacctcgatc gagccgttga atccgctcgc caagcgttcc gcaaatggtc caagacctcg 180
ttcgccgagc gtcgcaccgc tctcaaccac ttcgccgaca agatcgaagc aaacaaggag 240
gcactggccc ggctcatgac gcaagaacaa ggcaagccgc tcagccagtc caccgtcgag 300
gtcggaatgg ccgtgcagtg ggctcgaacc atcccgacaa tcgagatccc cgaaacggtc 360
atcgaagaca cggacgaaca ccagatcatc cagcggtaca ccccgctcgg cgtctgcggg 420
gccatcgtgc cgtggaactt tcccgtcctg ctggccgtcg gcaagatcgt ccccgccgtg 480
tacacgggga acaccgtgat cgtcaagccc tccccgttta cgccgtattg cggcctgaag 540
ctcgccgagc tggcggcgca gtgcttcccg cccggggtgg tccaggcgct gagcggaggc 600
gatgacctcg gcccgatgat cacggagcac ccgggcatcg acaagatcag tttcaccggc 660
tcgattctca cgggcaagcg cgtcatggcg agttgtgcga agaccctgaa gcgggtgacg 720
ctggagctgg gggggaacga cccggcgatc gtctgcgacg atgtcaacat cgatgcggtc 780
attccaaagg taatgtacct cgtttgttag 810

<210> 3874
<211> 687
<212> DNA
<213> A.fumigatus

<400> 3874
ctcaagtgcg agtacggtgc tttcgacaac gagcacgtag tgcttcccct cacaaagtat 60
gatcatatca ttgaccgcga ctctccccgc cccggccagc aggccttcga gaagatgaca 120
gctggtctct acctgggaga gatcttccgt ctggccctga ttgatcttct ggacagcaga 180
ccaggactga tcttccagaa tcaggacacc agcaagctgc ggaagccgta cttgctggac 240
gcttccttcc tggctgccat cgaggaggat ccctacgaga acttgcagga aacgcaggag 300
ctgttcgagc gcgaattgaa catcaagccc actctggccg agcttgagat gattcgtcgt 360
ctggccgagc tgatcggtac gcgtgcagct cgtctgtcag cttgcggtgt ggccgctatc 420
tgcaaaaaga agaacatcga gagctgccac gttggtgcag acggctccgt cttcaccaag 480
taccctcact tcaaggctcg cggtgcccag gctttgcgag agatcctgga ctgggccccg 540
aacgagaagg acaaggtcac cattatggcg gccgaggatg gttctggtgt cggtgccgcg 600
ctgatcgccg cgctgaccct caagcgtgtc aaggccggca acctggctgg tatccggaac 660
aaagacgaaa tgcagaaatt gctttaa 687

<210> 3875
<211> 183
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (34)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3875
agagctgtca tcaaacggtg cggggacatg tctncggtct ctttacttca attctacccc 60
caatatcttt tctacctgac ctactgtcca tgtggcataa ttcaaacagc tgaactacac 120
cgtaaaatgt ggcagaccct tgcctacaaa ataaggaaaa tggaaagaaa cttaaaatct 180
taa 183

<210> 3876
<211> 216

<212> DNA
<213> A.fumigatus

<400> 3876
aatgctcgtt attgttacga atattataac cattgttatt atgagggagt tccctttgg 60
attgagagaa tacaggcgga ttatcagtcc aacgatttgt accttactac ggagttgtgt 120
atgtacgtta tcctagaccc caccaaggcc tctagaccag gaaatacctc tttatttaag 180
acaagagtac caaatagagc cgacaacaat aagtga 216

<210> 3877
<211> 1029
<212> DNA
<213> A.fumigatus

<400> 3877
gctccgggtg acagactagc aggggatgtt ttcaacatcc ttggtgccgt ccttcagggc 60
gtgctaccta caatgatcat ccttgccgtc tactacaccc gcgcagacat tgttcttttg 120
ggccaatgct tctactaccg gggattcacg ctgcgagata aactgtctaa tcccacttct 180
cccgcagata tcaactctga agaagagcct tcgcagacta gaaaggcaac ggagcatacc 240
tctctactgc ctcccaagtc taacggccac tcacatcacg tcctggcaca agagcctcac 300
tatcagtcag gccaggcggg accagcagca gcagcaacta cttcacaagt gcggccgtta 360
ccatcgcatc cggaccaccg gcgacactct gcaacatcct ttcgggagat aatccatttg 420
aacgtcgacg ggacgcatct gtcacccgca acacccttca ttgaaccaac ttccaaggaa 480
tatttgtctg ctcgacgcat ttccactctt cagactgtcc tttttaactt gaccaccatt 540
gcacttgtct gcgccgcagg agtcctgggc tggtatgtca gccctagctc ttccaaaaac 600
gaagaatcag acttgcctgg agatgaccgc gattcatcct ctcttacctt cgacaccgta 660
ggccaggtgt ttggctatct atgcgccgcc ctgtatcttg gctcacgcct gcctcagatt 720
cttctcaact accggcgcaa atctacggag ggggtttcct tgctattttt cctcttcgca 780
tgcatcggca acctgaccta cgtactctct atcctggctt attcccccgt ttgcaagcga 840
cactctcatc accctcacga ctgtcgccct ggagaagccg ctgcgctcta cggccgatat 900
gtacttgtta atttgtcgtg gttgataggg agctttggga ctctcttgct tgacatgtgt 960
attttcattc aatttttctt gtacaaagag aatggagacg gcatagatgg gagtagtgcc 1020
tgtgactga 1029

<210> 3878
<211> 198
<212> DNA
<213> A.fumigatus

<400> 3878
cagcgataca aatcggaaat ggatggaaaa aaggcgcttg tttggaagta ttccctagga 60
gttctgctgg ttggtttgct gattatgatt ctctgtacgc aaaatgcata tataggcgag 120
aaagaagaga aggctatcgt gaaattcgtt agaaagatat cttttcttca ttttacagcc 180
atgcaagaat ttccatag 198

<210> 3879
<211> 588
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4),(39)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3879

cagnctgcca ttcagttccc ggtcccgtcc ggcgcggant acgcttttac tctggatcct 60
ctgttcgctc cgattgaccc atctgcatca aaagtttctg tgatgtcaac aaagattgaa 120
ctcgtccttc gcaaaaagac agcgggccag aaatggggag cattagaagc gtcgtcgtca 180
agtgccaaac ttgctgatcg acaggcgatt ataggagcca cccccgccgc cgaaagcggg 240
ccgtcctacc cgacctcatc tcgccgtggc gctaaagatt gggataaagt cgcatcagcg 300
ctgacagcga agaagtcaaa aggcaagggt aaggagcgga gcgcggaaaa agacgcaaaa 360
gctggtgatg acagtggcga tgattccgat ggcgcggatt ccatcgactc tgactacggc 420
actggcgatc cagtggatgc tttctttaag aaactgtatg ccaacgcgga cccagacacc 480
cgtcgggcca tggtgaaaag ttacgtggag agccagggca cgtctttgag caccaactgg 540
aaggaagtga gccaaggcaa agtggaagca cggccaccca gtgactag 588

<210> 3880
<211> 345
<212> DNA
<213> A.fumigatus

<400> 3880
ccttgctggc tatctttctg tccaattgcc tttagtgttg aggactcttc cgaagcgatt 60
ttgttgtttg caattgctaa gaaccatcgt ttcttgacag acgtactact ccttaccctc 120
atcactatga tcgttaccgg cgtctacgtc tacctccccg accatctcag atccatctac 180
ggccatctct attactactg ggcgggcgaa cgcccgtttg tctcgacggg tctgccttcc 240
atcggcgcgg tattccgcga taatagcacc aaaaccctag agatggtgta tgacacggtc 300
aaagatgctg ccgcaacagc cactggtcca atcgctgaat tgtaa 345

<210> 3881
<211> 1806
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (28),(1506)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3881
cccccgccgg aggacagtca ttctattntc agtcggcggt cggtgcgcag tattcccagt 60
atcattgtca atgatgttgg gtctcggcct ggatcgcggc cgggctctcg accgggctct 120
cggtggtctg agcgcaaatg gagcgctttg agagggaaac ggtctggaga gtttgacagg 180
aggccggagt caccgccgcc tccacctcaa atcgagagac cgttcaacaa gatctcgctc 240
gatatcccga acggttcact tgacggcctc ggaccgcagt ccatgcgatt ttcgaaacgt 300
ggcagtctta tcaaagagga ggataggcag cgcctccagc gtgagatctc gaagcatgaa 360
ttgccgcagc aagaccagcc gcagccagcg gcagaatcat caatagaaca gtcagagcag 420
accgagacgg gtgaaacaag tgcaccagtg accgtagcgg aggagaacag tgcggagcca 480
gaactctatg gggcgcaacg acgccggacg aaaccattgt cgtatttgcg cgcgaggcac 540
agcagcgttc caagcagagc gatctcggcc gacgaggaca tgctttcgcg tcgagttagg 600
ttgatgtacg agaaaggcga cgagaacgtg accgattcgg aggtggccaa gtcccttgca 660
atggagaatg gtgtgctgtg ggaggaagtt gcacccacac cgacggaggc ttctgccgta 720
tctggacgca gcgcgagtgg tggggagtca gttgggcctg aaagcagcaa cggttctggc 780
ccaaagaggg agccccacga actggccggt ggtattgaat actggcaaaa tatcaaggca 840
ggcgatgtcg atcggtacgg cttcattcga agtactactt tcaattcggc cgacggtacg 900
gagcatagtc cgatccagcg cgtttctacc agcctgcttc tggcgtcaga aacaccgcga 960
cggaaacatt ccatccgacc tccatcagct cttgggggca accgatcttt ttcgggccga 1020
tcaccaacac gcaaaatatc tgcgccatct atgcgtccct cgtcatcgca aagcacatac 1080
agtgccactc tccgacggtc aacatctcga ttccgccagg cggctaatca tcttccgcat 1140
aatcgcgatc ggcggtttaa ggacgaggcg cgtgacatgc tgacacttcc aagcgatgcg 1200
gcggcttctg gaacgggacg ggactccgcc gtagctcgcg cgatgcgcaa gaaagagtgg 1260

caacgtgagg acaagtggac aaagatggcc aagcctaccc ggagaaccgc actcggcggc 1320
gggatgactt ttgaattcga cacgcagagt cctaagctga tcgagcggac atggaagggt 1380
atacccgacc gatggcgcgc tacggcctgg tacgcattct tagaggcaag cgccaagcgg 1440
cgcagcgaca gcccaacgga acaggagctt gtcgaggctt acaatgaatt ccagctcatc 1500
tcgtcncctg acgatgtaca gatcgatatt gacgtcccga gaacgattac cagtcacatt 1560
atgttccgcc gccgttatcg tggtgggcaa aggctgttgt tccgtgtgct gcacgcaatg 1620
tccttgtatt tccccgatac tggctatgta cagggtatgg cggcgcttgc ggcgaacctc 1680
ctcgcctact acgatgaaga acatgcgttc atcatgcttg tccgactttg ggagctacca 1740
cgaatggagc gggtgtccca atctgggttc tctgggtctg aatggaaccc ccccaatgaa 1800
ctttga 1806

<210> 3882
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3882
ttggcggcag aacatatttc ggagcctacc atggatttta tcttaatact catttgcatt 60
ctactatttt catccattat tgtattatcg tacgaactga tcttcgaaat tgaaacgaga 120
gacacctcca gtgagtctct tattgtcatt ttattccact tgtcctattc taggtataag 180
aatctcatac tatccgttaa cgccaagtgg ttcgagtcgc attatgctgc attttaa 237

<210> 3883
<211> 339
<212> DNA
<213> A.fumigatus

<400> 3883
tttcttgata ccaagcagcc tggtttcttt tcccttcaag ataaccactg gcggtataga 60
agtcccttta gaactgatac attcaataat tgtaacctat tcgcggttcc cttggataac 120
tgtacgaggt ctctcactat gttctactgc agtaataacc ttagatatta tacagagtcc 180
cattgcaaag ctagtttcgt caaagttcca gatatcatct tcatgtatgc tgtgttcttg 240
aatagctttg catacagtct caaaccactg tctgataacc ttaggatcct cctattttgc 300
cctctggtat gtaatccttt aattatatct tgtacgtag 339

<210> 3884
<211> 525
<212> DNA
<213> A.fumigatus

<400> 3884
gcgagggcgg tcatagtcgc gctctcgatc cctgtctctg tctctgtccc tgtccctgtc 60
cctatccctg tccctgtctc tgtccctgtc cctggttcga ctgcgatcac ggtccctaga 120
tcgatcccag tcacggtatc tttcgcgctc ttctcgtctc cggcgctcat atctttcctg 180
tcgttccttt tctcgttgct cttcaagtcg ccgttcctct tcccgctggc gctcacgctc 240
tgcacgtcgc tgctcctcac gctctttccg tcttgccctt tcttcctcct ccttttggcg 300
ttcgatctcg cgcttcttgc gttcctcttc ggcctttcga cgagcttctt gctcttcgag 360
ttctctctgt ttgcgcaccg tctcctgcca ttctcgttcg cgtatctcac gcttagctct 420
tatctccgca gcgaaatcct cgtctgtttt gttgccggct tgctcctctt tcgcagcgag 480
ctcgtctccg acttgctgac gacggatctc cctgacagaa tctaa 525

<210> 3885
<211> 483
<212> DNA
<213> A.fumigatus

<400> 3885
tcgcgctctc gatccctgtc tctgtctctg tccctgtccc tgtccctatc cctgtccctg 60
tctctgtccc tgtccctggt tcgactgcga tcacggtccc tagatcgatc ccagtcacgg 120
tatctttcgc gctcttctcg tctccggcgc tcatatcttt cctgtcgttc cttttctcgt 180
tgctcttcaa gtcgccgttc ctcttcccgc tggcgctcac gctctgcacg tcgctgctcc 240
tcacgctctt tccgtcttgc cctttcttcc tcctcctttt ggcgttcgat ctcgcgcttc 300
ttgcgttcct cttcggcctt tcgacgagct tcttgctctt cgagttctct ctgtttgcgc 360
accgtctcct gccattctcg ttcgcgtatc tcacgcttag ctcttatctc cgcagcgaaa 420
tcctcgtctg ttttgttgcc ggcttgctcc tctttcgcag cgagctcgtc tccgacttgc 480
tga 483

<210> 3886
<211> 426
<212> DNA
<213> A.fumigatus

<400> 3886
gagctaagcg tgagatacgc gaacgagaat ggcaggagac ggtgcgcaaa cagagagaac 60
tcgaagagca agaagctcgt cgaaaggccg aagaggaacg caagaagcgc gagatcgaac 120
gccaaaagga ggaggaagaa agggcaagac ggaaagagcg tgaggagcag cgacgtgcag 180
agcgtgagcg ccagcgggaa gaggaacggc gacttgaaga gcaacgagaa aaggaacgac 240
aggaaagata tgagcgccgg agacgagaag agcgcgaaag ataccgtgac tgggatcgat 300
ctagggaccg tgatcgcagt cgaaccaggg acagggacag agacagggac agggataggg 360
acagggacag ggacagagac agagacaggg atcgagagcg cgactatgac cgccctcgct 420
caatag 426

<210> 3887
<211> 969
<212> DNA
<213> A.fumigatus

<400> 3887
agaccggagc ttctatcccg tgaacgagga aaagccgcga cattgataga gggtgcagtt 60
gatcggagcg acgtctacaa gaaagccgaa aagcttattg atgcgctggc ctcaaatcac 120
ctgcagttca tcttagattc tgtcagggag atccgtcgtc agcaagtcgg agacgagctc 180
gctgcgaaag aggagcaagc cggcaacaaa acagacgagg atttcgctgc ggagataaga 240
gctaagcgtg agatacgcga acgagaatgg caggagacgg tgcgcaaaca gagagaactc 300
gaagagcaag aagctcgtcg aaaggccgaa gaggaacgca agaagcgcga gatcgaacgc 360
caaaaggagg aggaagaaag ggcaagacgg aaagagcgtg aggagcagcg acgtgcagag 420
cgtgagcgcc agcgggaaga ggaacggcga cttgaagagc aacgagaaaa ggaacgacag 480
gaaagatatg agcgccggag acgagaagag cgcgaaagat accgtgactg ggatcgatct 540
agggaccgtg atcgcagtcg aaccagggac agggacagag acagggacag ggatagggac 600
agggacaggg acagagacag agacagggat cgagagcgcg actatgaccg ccctcgctca 660
ataggctacc gatcaccgcg atatcgcgat tcgaggagag agaagtccgt tactccgaag 720
gagccaacgc aggcgcctcc accgcctcca ccgcctcctg ttgccgtaga tgataagtcg 780
ctggaagagg ccgctctcca actgctgctt aaagagggcg aggaacttgc cgctaaggcg 840
cgccagaaac cggaatttga ctttgaagaa gctgaggcca tcgagaacgg tcttaagccc 900
ccgccgacta aagcaaaagg cgcaacagaa tcgagtattc ctcttcacca cgggatgacg 960
gaacgcgtc 969

<210> 3888
<211> 1644
<212> DNA
<213> A.fumigatus

<400> 3888

gcgcaaatgc ggatcttcta cggcgtgtgg caaatataca tgcctgggtc ttgcggacgt 60
tttttgagga ttcgcaaggt caaatgtgat gaggcctatc cggcgtgccg tcggtgtctt 120
tcgactggtc gcacctgcga tggatatggc atctggggtg gcggaagctc caacaggcct 180
acgaaacctt cagctgtggc tgtgaattct gcgcttgtcg tcagaccaat gatagattcc 240
cgactgccaa cgaggatcac caatgaagag ggccgctatc ttcagtggtt caaagaacgc 300
accgtgtcga agatgtcagg ctcatttttc tcggaattct ggagcgggtt ggtcattcag 360
gccggtatga gcgaaccctc agtgctgcat gctgtccttg ctctgagttc ggtccacagg 420
caaggcgtct tgaccgatgg tggtgtcaag gcgggggaca tggaaatgat aacattgacc 480
cggtatagta aggcgatcaa tttcctgcag cctcatttca aggcaaagaa ccggactgcc 540
tttcggacgg ctctcatcgt ctgcattctg ttcattgcgc tagagctgct tcggggccat 600
tttgcatcgg cgcgaatcca ccttcaacaa ggcttaaacc tcctggaagg gtctggtctg 660
ttgagaagac agggtggcgt tcttgtaggg caaagtcaag tgtatgttga tgactggatt 720
gtgcatgcac tatcgaggtt gcacattcaa ctcgagctac taaagcaagt ccaccgtggt 780
tcttccctac ggctcgagat ccccttcttg gaatgcaaat cgttaacatt tccctccgtg 840
aaagaagcgt ggtcttggct tcaccacctg atgggaaaag cttttaattt gaatcgagaa 900
gttcgtgaac agttctgcac agagagcaat ctcccagcag agctgctccg ccgtcagcga 960
tccgtccatg agaatcttac ctgctggctg aacacataca accacacaat ccaaggcagt 1020
atgcggaaag atcaggcgca aatctacggg ctgcttcgca catatcacac catgataact 1080
atcatggtgg caacttgtct tcatcccggc gatgagatga tcttcgacct tcataccgac 1140
caatttctgg agatgatcac cacgctggca cagctctgga aattcctctc aacattttct 1200
gccttcggct ctcggccggc ccagtttttc atgtcccgtt cgattgggga tttgggttgg 1260
attgctccac tatactatac agccatcaaa tgtcgcgtgc accggattcg acttcatgcg 1320
atccggctgc tggaaggcag cttccacaga gaaggcttct gggattcgca aatcctggca 1380
ttcgtggcgc gaaaggtgat ggagatcgag gaggtcgact tttatcaact tctcgattca 1440
agggatgact ttgagctgca ttgccctcca gaccaggaag atttgctttt cccgcccctg 1500
cctggatctt gcagactatc tgatgtggaa gtgaggctgt tgggtgatcc tgtcaatacg 1560
atttcaattc tctgtagccc gaatgaccag ggaacagatc gcaaaatatg cgttgcaagt 1620
tacgatgtcg cattctaccg atga 1644

<210> 3889
<211> 321
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (210)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3889
aacacttact gcaagacaga agaacatcga acctctcgtg tgactatgac cccgtccacg 60
tatgacatgc atatgcgatc ccagcagata cgctggtctc tgcgtgctag tgctaaaaac 120
tatacatccc agtcagattc aactttcgga cacgtcaagc tggaagcatc tccgcgagtg 180
ttcatcgact gcgaaacggg aacaggccan catcggacta cgatgtccaa attgacccct 240
atcgtcactc aggatactct caacccggaa accaccatta atcatgcttg ccctctttta 300
aaagatgaca cggttccatg a 321

<210> 3890
<211> 1029
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (185)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3890
atattaatcc ctttgagatt gcacgtagac caggatgccg tggactttat ctgccgtttc 60
tttgagttta gggacgataa tgcacccaca ccgagttcac cagccgacat tccgttcttg 120
caacgagtgg aagttaacgc tgtgcctgtc aaacttgact tcaagcccaa gcgcgtagac 180
tacgntgggc tccgatcagg ccggacaacc gagttcatga acttctttgt ccttgatggc 240
gcggatatgg tcatgcgtca cgtcatcatt tatggagtgt ccggctttga taaactgggt 300
cagacgctca atgacatatg gatgccagac atcaagagaa atcaacttcc gggtgtcctt 360
gctggcctgg ctcccatcag atctctggtc aatgtgggag gcggtgttaa agacctcgtc 420
gtggttccta tgcgagagta tcgcaaggac ggccggattg tccgaagcat ccagaaaggg 480
gcgctcgctt ttgccaagac cacttcgaat gaactcgtga agcttggtgc caagcttgcc 540
attggcactc aaacggtttt gcaaggagcg gaggagatgc tgaccgcacc gactgcgacg 600
acactgggct ctgaagaaga catgattgac gaagaggagg cgaacaagat ttcgccctac 660
gcggatcaac ccgtgggtgt ggtacaaggc ctccggggtg cgtttcgcgg cttggaaagg 720
gacttgcttc tcgcacggga cgccattgtt gctgttcctg gcgaaatcgt ggagagtggg 780
agcgcgaaag ctgccgctaa ggctgttctc aaacgtgctc caaccgtcat cctccgacca 840
gcgattggag tctccaaggc cgttgggcag acgctcctcg gggctggaaa cactttggac 900
ccgagcaatc gccgaaagat agaagatgta agtgtcatgg tgaagtatgt ctctcgagta 960
tgcttgctga cttctctgct tagaaatata aacgccatta agacagtcgg tcatattggg 1020
cagctttga 1029

<210> 3891
<211> 405
<212> DNA
<213> A.fumigatus

<400> 3891
ggtactcaac gatcgatacc agataattgc caaaataggg tacggagtaa cttcaacagt 60
gtggctcgcg aaagacttga tgtaggtaca gtgaatttgc ttcagcccaa cgagatgatg 120
atcgatttga ataacacgcc tcaaaccagt gcatcaatat acgtcgtttt aaaagtctac 180
gtaacggggc aatgtcgcga ccacgagcga gaactgcaca tctacaagca gattaatcag 240
gtggaaacaa accatcccgg tagaaatttc attcgcaaac ttcgcgacca tttctatatc 300
caaggccctc atggccgcca cgtctgcctg gttcacgagc ctctcggaac gagtgcagat 360
gttctggtga agtcttcacc acggggctgg aaggagccgc gccat 405

<210> 3892
<211> 459
<212> DNA
<213> A.fumigatus

<400> 3892
atccgtcgcc ctcatatcca tcattgtgta gccaccttat gcttacatgc cctactagcc 60
gcgggctctt tcgcgctcat ttttatgatg cagcgggccg cgcgaaacgc ttggactatt 120
tgtgtccccg gtgctcacag gggcttcacc atcttcctac cctccgcttc ttgccgccga 180
cgagtctcgc cgctgtctag tctgagaacc acggttgtgc cgcgtcgaac agctatgtcg 240
tcctcgcagt ggacgtgcac ccccaggact tttcccacgt caggcttcga gctacttgac 300
cagtccattg agcttgacga ggaaacactc ccgacttacc gacccgagaa atactaccca 360
gtcacccagg gtgaggtact caacgatcga taccagataa ttgccaaaat agggtacgga 420
gtaacttcaa cagtgtggct cgcgaaagac ttgatgtag 459

<210> 3893
<211> 447
<212> DNA
<213> A.fumigatus

<400> 3893

gacgagtgca tcgttgagta tagacaacca atcaaatatg tgcaagcagg caagcataaa 60
catcggcggc taacaagacc cagcgggttt atctgcagga tacccacagt acacgcctgc 120
tccccctgg atacaaacca gcccaccggg gcacggctgc atcacccaca ctccgttatc 180
gcacagcccg aagcttgccc cgttgcacgc ggcccctccc cccgaacagc gcgcgccggc 240
cgtgggacag ctacctgtgg gagccgtcgt gctactcgtc gtcgttgtgg acgacgtcgt 300
cgaggttgtc gtgacactcg tcgaggtcgt cggggcactc gtcgtgctgg acgtagtggt 360
agtaggagtg gacgtagagg tagtcgtcga agcagtagtg ggactcacag tcgtcgaccc 420
cgaccccgac ccggaccccg aacctag 447

<210> 3894
<211> 747
<212> DNA
<213> A.fumigatus

<400> 3894
cgccgctcgc accccagcca gaaacccgct attggccata acctggctga cgtcccaggc 60
catcacgccc ccaaaggacg agaagccctt ggtgtacgcg atgatctgcg ccagcgcctc 120
caccgaaacg tacccgcttc ccgcggcggt cgagctcccc ggcacgccga ggaagacctt 180
gacgttcttg ttgcgcgaga cggacttggc ccaggtgtcc caggtggcga agttgaagtt 240
gttctgggac gtggagccgg ggttgtacgc ctgcaggccg cagtagttgt tgtagaactg 300
gacccagatg gcgtcgaagg agacggcgcc gtcgagcatg ggcccgtcgg cggcgtccgg 360
gtaggggcat tgcggggcgg cggtgaggta ctattgcttg gaggggtcgg aactgaacaa 420
ggagcggagc tggttggcga aggccggcat gttggcgacg ggggactcaa agtccaagtc 480
gaagccgtcc acggccgctt tgccgaaggg gcggagagtg gaggggttgt tgctgggagg 540
gccgaaggtc tgccagacgc tgttggctcc ggcgatggcg gcggactcac tggtgaagcc 600
gccttcggtg taggttgcac cgccaatgga gaggaggatg gtcttgccga gggattgaca 660
gatggggatg tcttctctgt tgggcgttta gtggtttgca cgttactgga gggggtggaa 720
gggagtactc tatctgagga cagctga 747

<210> 3895
<211> 699
<212> DNA
<213> A.fumigatus

<400> 3895
aggcacaaac ctcctcagct gtcctcagat agagtactcc cttccacccc ctccagtaac 60
gtgcaaacca ctaaacgccc aacagagaag acatccccat ctgtcaatcc ctcggcaaga 120
ccatcctcct ctccattggc ggtgcaacct acaccgaagg cggcttcacc agtgagtccg 180
ccgccatcgc cggagccaac agcgtctggc agaccttcgg ccctcccagc aacaacccct 240
ccactctccg ccccttcggc aaagcggccg tggacggctt cgacttggac tttgagtccc 300
ccgtcgccaa catgccggcc ttcgccaacc agctccgctc cttgttcagt tccgaccct 360
ccaagcaata gtacctcacc gccgccccgc aatgccccta cccggacgcc gccgacgggc 420
ccatgctcga cggcgccgtc tccttcgacg ccatctgggt ccagttctac aacaactact 480
gcggcctgca ggcgtacaac cccggctcca cgtcccagaa caacttcaac ttcgccacct 540
gggacacctg ggccaagtcc gtctcgcgca acaagaacgt caaggtcttc ctcggcgtgc 600
cggggagctc gaccgccgcg ggaagcgggt acgtttcggt ggaggcgctg gcgcagatca 660
tcgcgtacac caagggcttc tcgtcctttg ggggcgtga 699

<210> 3896
<211> 204
<212> DNA
<213> A.fumigatus

<400> 3896
cgggtttctg gctggggtgc gagcggcgct aggttcgggg tccgggtcgg ggtcggggtc 60
gacgactgtg agtcccacta ctgcttcgac gactacctct acgtccactc ctactaccac 120

tacgtccagc acgacgagtg ccccgacgac ctcgacgagt gtcacgacaa cctcgacgac 180
gtcgtccaca acgacgacga gtag 204

<210> 3897
<211> 297
<212> DNA
<213> A.fumigatus

<400> 3897
acgcccaaca gagaagacat ccccatctgt caatccctcg gcaagaccat cctcctctcc 60
attggcggtg caacctacac cgaaggcggc ttcaccagtg agtccgccgc catcgccgga 120
gccaacagcg tctggcagac cttcggccct cccagcaaca acccctccac tctccgcccc 180
ttcggcaaag cggccgtgga cggcttcgac ttggactttg agtcccccgt cgccaacatg 240
ccggccttcg ccaaccagct ccgctccttg ttcagttccg acccctccaa gcaatag 297

<210> 3898
<211> 768
<212> DNA
<213> A.fumigatus

<400> 3898
tacctcaccg ccgccccgca atgcccctac ccggacgccg ccgacgggcc catgctcgac 60
ggcgccgtct ccttcgacgc catctgggtc cagttctaca acaactactg cggcctgcag 120
gcgtacaacc ccggctccac gtcccagaac aacttcaact tcgccacctg ggacacctgg 180
gccaagtccg tctcgcgcaa caagaacgtc aaggtcttcc tcggcgtgcc ggggagctcg 240
accgccgcgg gaagcgggta cgtttcggtg gaggcgctgg cgcagatcat cgcgtacacc 300
aagggcttct cgtcctttgg gggcgtgatg gcctgggacg tcagccaggt tatggccaat 360
agcgggtttc tggctggggt gcgagcggcg ctaggttcgg ggtccgggtc ggggtcgggg 420
tcgacgactg tgagtcccac tactgcttcg acgactacct ctacgtccac tcctactacc 480
actacgtcca gcacgacgag tgccccgacg acctcgacga gtgtcacgac aacctcgacg 540
acgtcgtcca caacgacgac gagtagcacg acggctccca caggtagctg tcccacggcc 600
ggcgcgcgct gttcgggggg aggggccgcg tgcaacgggg caagcttcgg gctgtgcgat 660
aacggagtgt gggtgatgca gccgtgcccc ggtgggctgg tttgtatcca gggggggagca 720
ggcgtgtact gtgggtatcc tgcagataaa cccgctgggt cttgttag 768

<210> 3899
<211> 420
<212> DNA
<213> A.fumigatus

<400> 3899
caaacccaac agaacaaaac caactccgcc gtccagctca tccacaaacc caccggcata 60
gtggtaaaat cccaagccac ccgctcccgg tcccagaatg agaaaatcgc tcggcagatc 120
ctcgctgata aagtagagga gttgctaaag ggcgatgcga gccggaatgc catccgggca 180
gagcgtgcac gcaagaagaa ggcgagcaag atgaagaaga cacggcggaa gtatcgtgag 240
ttaggaaagg gggcgcaaaa tgagaagcat gaagatggag acgaggtcga cgtagaagat 300
gatacggggg atggttctga ggtccaagga gcgccgcatg tctctcgctg cgatgctgaa 360
gattctacca cccagaaaac ttgtgataat cacgccgctg agcagaagca gctcggatga 420

<210> 3900
<211> 318
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (8),(165),(166),(265)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3900
caaccacnaa gccaacctca tctcccaagt caagagcatc ccccaggaca cgagctctct 60
acggatcgaa gagaacaccc ctcagaacaa gaagggtcat ccccaacgac cagtttacca 120
acatccgcga actggatatg gacggggggt accacaaagg cctcnncgaa taaaaaattg 180
cccctgcact gggcccctca aacgggtttg aagatcacct ccgccgcggg ccgtaagttc 240
tccaaaaccc cccttcaacc tggcnagggt cccgttaaaa gcacctccgc tccttatcct 300
tccacctccg gggcttaa 318

<210> 3901
<211> 444
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (241),(398),(399)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3901
cgcagtcatt acctatccac ctgccttaag gggcggtttt ggtcacttcc ctccaggagg 60
acaactcaac aaattggggt cactttaagg aaacccagtg gtcagcctac gcaatggcct 120
gctttcactc aactacgcgc cgctacggta gacgctactc agaacggtct aaatttcagc 180
ggatcctcaa cacccaccgt gcgggtacta gggccgaaca gcgaagatca tgacaaccac 240
naagccaacc tcatctccca agtcaagagc atcccccagg acacgagctc tctacggatc 300
gaagagaaca cccctcagaa caagaagggt catccccaac gaccagttta ccaacatccg 360
cgaactggat atggacgggg ggtaccacaa aggcctcnnc gaataaaaaa ttgcccctgc 420
actgggcccc tcaaacgggt ttga 444

<210> 3902
<211> 222
<212> DNA
<213> A.fumigatus

<400> 3902
tggagtgtcg tccaaattca atatcgcctt atcagctcat ccttatcact tatcttatca 60
ttgtttgttt gctctgtttg ttgtctgtgt gtttcgtgcc tgaggcagca tggaatttgc 120
agccaggatt atatgatcaa cttgatcaac tccattcact ccctcagcct aggatatggt 180
aattatatcc tgggttccat ggaaggctat tcacttcttt ga 222

<210> 3903
<211> 249
<212> DNA
<213> A.fumigatus

<400> 3903
tcccttaggc gacgaagccc cctacatccc ttggtcaggg ccccttttcag tgctacccca 60
aggtcagaga tgtcagccac tactgctgag aaggcctcta ccggccgtac tctcgagaag 120
aagcctgtca agttcagcaa tctgctacgt atgtctcttc cccatcatga atcatacgca 180
acaccagcaa tacttgcagc ctatcatccg attctaattc aattggaaat acagtcggtg 240
caggattga 249

<210> 3904
<211> 687

<212> DNA
<213> A.fumigatus

<400> 3904
acccacagaa tatcaaggtc tcattcccgt gggcctggat tgaggcctcc acccaaaggc 60
gcggtcttat tgttcgtcgc gtccgaggcg gaattccgtg ccaaggtact tggtgccccc 120
gacttcctgg cgggtattgc tggaggtatg acgggtggtg ttgcgcaagc atatgcgacc 180
atgggtttct gtacctgcat gaagaccgtt gagatcacca agcataagat ggctgctcag 240
ggtgtcaagc ccccgggtac gtttgctacg ttcatggata tctaccgtaa ggaaggtatt 300
cgcggtatca accgcggtgt gaacgcggtg gctatccgcc aaaccacgaa ctggggttct 360
cgctttggtc tctcccgtct ggcggagacc gctatccgta aggtgaccaa caaggacgag 420
aaccaaaaac tgagcgccat cgaaaaggtc attgcctctg gtctgggagg tggtctctcc 480
gcatggaacc agcccattga agttatccgg gtcgagatgc aaagcaagaa ggaagacccc 540
aaccggccta agaacctgac tgttggcaag acctttaaat acatctacga gacgaacggt 600
attaagggtc tctatcgtgg tgttactcct cgtattggtc ttgggatctg gcagaccgtc 660
tgcatggttg ctcttggtga tatgtaa 687

<210> 3905
<211> 462
<212> DNA
<213> A.fumigatus

<400> 3905
gtggaattca taggagcgac ggcttcgctc aagggtggct ctgggctgtc tgggttcgct 60
atgagcaagt ttgcaatccg ggctctatcc cagtcactcg cgcgggaatt tggtccccag 120
ggtgtccatg tttctcatgc catcattgac ggcatcattg atactgagaa gaccaaggaa 180
tatagccggg aggtcccgga ttccaaaatc gatccccaat gggtgagtgg tcagcggacg 240
agccacaaga gtccaatatt gattccggat ttcagattgc ggaatcatac tggttcctac 300
acacccagcc caggacatcg ttcacgcatg aactggacct tcggccatcc tcggaaacgt 360
ggtaaagcca ttgcagctgt tttcatggta gacggattgt gtccgtgctc tgggtacagg 420
acagggccac aatcgcaagt cccgagtcca tatgaacaat ag 462

<210> 3906
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3906
gagggattat atgaaggctc tccctccctc tgtcaagtat gggactcgtt caagaaagac 60
ccagctatca aaatgacctc acgtattgtt tctttatctc ctgatcattc ggaaatcaac 120
atgaaggcgg aaagtcagac acaggctcag aagccagagg atatggacca aaagaaagaa 180
gagccaatgc cgcctgtccg tcaggatgcc tttggtgatg aggagtttgc ggaggtcaag 240
tacaaagttc tcaagtggtg gtccgtttct cgacctttcg ctcacatacc ccggaggaga 300
tga 303

<210> 3907
<211> 474
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (103),(236),(300),(367)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3907

ttactaactc cttcaaacag gcaaggagga ctgctcatgg tcgctgagac tatctctctg 60
ggcatcctct cacttcctgc ggctgttgga accgtcggat tancaccagg ccttgccatc 120
ctcatcagta tgggcatcct cgccagctac aacggttacg ttattggaca aatcaaactg 180
cgatttcctc atattactag catgtctgat gcgggagaag tcctgctggg cccgtntggg 240
agggaactcc tgaatgcaac acagatactg ttgttgatct tcatcatggc aagtcatatn 300
ttgacattca ctgtggcgtt caatgtcatg aacggtcatg ctacttgctc cattgtcttt 360
ggggtcntgg gaaccgtgat ttcctgtctg ctctccctgc ctcgcaagtt ggagaaagtc 420
tcgtggctgt cgcttgtgtg taatttgtgc tgccgtggga ccggtaccgg ttaa 474

<210> 3908
<211> 1521
<212> DNA
<213> A.fumigatus

<400> 3908
atgcaatgcg cggacggccc agctcccgag gtgaagagaa agggcaagaa actcatgaac 60
catctccagc cttggactaa gaacccagat ttcatcggcc atccgaagtt agaatacctc 120
aaacaggtcg tactcaatca cttcatggat cgtggagaag ggacggcagc caatggagac 180
caaagtcagt ctgcgacacg aatcatgata tttgtgcatt tccgtgatag cgctgaggaa 240
gtggtcagag ttctaaagcg gcacgagcct ttgattcgac cccacgtgtt tgtagggcag 300
agcagtgcga aaggatcaga gggaatggat caaaagacac agttaagcat tgtgcagaag 360
ttcaagaaag gcacatataa tactatcgtc gcgacctcga taggtgaaga aggtctcgat 420
attggcgagg tcgatctcat tgtctgctat gactcttcgg cgtcgcccat tcgcatgctc 480
cagcgcatgg gacgtactgg ccgtaagaga gctggtaata ttgtgctgct tctgatgcag 540
ggtaaagaag aggagtccta tattaaggcc aaagacaatt atgagaaaat gcagcagatg 600
atagccagcg gtactcgttt caccttttcat gacgacaaat cccctcgcat tttgccccca 660
ggagttcgtc ctgtggctga gaaaaggcaa atcgatattc cggtggagaa tacgcaggct 720
gatttaccag agcccagaag gagagcaagg cccccaaaaa ggccgccgaa gaagttccat 780
atgccagatg acgtcgagac tggttttgca aaggcgtcca gtctaactgg gaaagtgacg 840
aagaaagcag aaactaagag agccgtccgc aaaccgactc cagagcctgt ggaggttccc 900
gccctggaag aagttctcct tacgccaaga cagcaacagg atcttgagcg acgctattgt 960
catattgcag gcacaagtcc agagttcatc cggaacccac gtgttgacgc ctaccctcgc 1020
ctgcaatctg ttcctaggcc gacaaaagct gttaaacatg gttccttgac ctcccgcatg 1080
attggtactc tccaaaaaat gggtaaggtc agtgttgatt gtgaaagccg atataggaaa 1140
gtgttggctc tggattcaag caaggagatt gtggactcag ttctgtctcg cgacccgtgg 1200
cccccagcga agaacagtgg aaggctgggg gaaaaaacac acgccttcaa aaggccgtcg 1260
gccactccgc ggccaaacaa tgtacatgtg cgggaggacg agaatgagga caattgcact 1320
cccgaactgg tgtctccaga gaaattgatg tcatcttttc tggagcctca taccgaaaga 1380
cccctatatt catcacaaag aagccaagat gcttttgaac ttgatttccc tgatgttgag 1440
acacttctca atcgtagcgc agagcggcat gtttctcgca aacggaacag atttgttctc 1500
gatgacgaca gtgacgaata a 1521

<210> 3909
<211> 414
<212> DNA
<213> A.fumigatus

<400> 3909
gcatctggta tgcacagaag gcgtcagggg atataccggc cgggccggac ggacttttgc 60
ttggtcgctg tctccgcaaa ggataattct agccacaaca tatacatgta cggaggcaag 120
ggcgcaaacg agttatacga cgaaatatac gtgctttcta tcccgtcctt cacctggacg 180
aaaatctccg agggaaagtc gccacgttac gggcacacct gtcacctagt agccaaccga 240
cagatgttga cggtgggagg agcgtcgtct gacgaccttt ctacctgcga ctgggaatac 300
agaggcgtcg ctatctacga catgtcgaca tcaacatggg gcagtgtata tgatgcgttt 360
gctgcagatt acgcggtccc cgcaaaagtg taccaagtga tcggtggagg gtga 414

<210> 3910
<211> 405
<212> DNA
<213> A.fumigatus

<400> 3910
cttgctttaa agcaccgttc cgagaagtct cagagacaac gcatcatcgt cttttcctgc 60
tcccctatcg aagaagacga aaagacactg gtgaagctgg ctaagaagat gaagaagaat 120
aacgtctcga tcgatgtcat tgcctttgga gacctggagt ccgatcaaac caagaaattg 180
gaggcgttcg tggagaatgt caagggtggc gacggctcta acctagccat tatccccccg 240
ggtccgaacc tgctcagtga ggagcttcag gccacgccta ttttgggcgg cgaggcggga 300
gtaggcggcg ccggtgcgga aggtggtgac ggcggcttta atttcgagga cgctgctgaa 360
aacgaccctg agctcgttct tcaaccacgg gggctggaag gacac 405

<210> 3911
<211> 348
<212> DNA
<213> A.fumigatus

<400> 3911
cagaaacgga gactatacgt gagaattcct tggtttttcc aagctttgat aagctctgac 60
gctcaagggc tgacaacttg cagctcaaca cgatggcagg cacaggtcga tgctgtcagc 120
gtcattcaca gcgccaaaat gcgcgcgcat ccacagtctg ctgttgggct catgagtatg 180
ggtggcaagg gtcctgaagt tctttcgaca tttacctccg actttggcag cattctcgcc 240
ggtctgcacc gtaccaagat tcatggtact gcccatctca gctccagtat acaggtggct 300
ggtgtatgtg atttgtcctc agtctcaagt ttcgtcgatg gatactga 348

<210> 3912
<211> 1266
<212> DNA
<213> A.fumigatus

<400> 3912
gcacgcggta cttccagccc ctgcgtgaag acagagacat cgatgtcgtc tataaattat 60
gctccctccg gggaggattc gctgtgctcc attcgccccg ttctccgagt gtcgtctcgt 120
cgccggaaat cgtcctttgg caatctcaca cggcgatggt tatccattaa ctccgccgtc 180
cagaccagca ttgcccagcc tgctggctca caacccgggc gtaaatgtgt tgaacatgca 240
cgaagtgtag gacctacaca aacacagaga gtagaaagca ccagcgataa aggtggaaac 300
cattacactg taccgagcga aacgggccac tgtgcggact acgagtcgtc aacatcgctg 360
catagatctg aaactcggag cgaagattcg cagaatgcta caagagaaaa ccggagacct 420
ttcaacctct tcgcgaacac gcaaacgtca acgacgaatt ccccggccaa ggacaaggcg 480
atcggagtca tggaaagctt gtcgattaga gatcggaaaa aattgagata taggctttat 540
ctttcgcgga tgggcaggga ccatgggtca cgagataatg ggggccggtg gaccaaagtg 600
ggagactttt tggaagcgat gcaacaggag tctcggttgt ggcccaagaa ggggccggtg 660
cagaaggagc tccttttgcc ggaggaaaca gtagccctca tggcgggcat cacggacatg 720
gcgatgaagg agaatgtctg gtatgtgcct gttcgcaacg ggtgtcgtgt tcatgtgctg 780
cacccccctcg agagcgaagg gcagcatagg aaggtcattc tgtcaggatc aaagcggagt 840
gtggaattgg tcggggatca catcatgcgg acacggatgt tacaggaaca gggtgatcct 900
ctagtcgaca taaggaaacc ccccgttccg gtttaccctt ccatcgaggc catgcgacgc 960
aagaatcttc ccgttccact tgtccgaggt gtctgggact tttaccaggc gttcaagcaa 1020
cctgcaccac tacacacact tctcaactcg tccgccaata tatcgagtgt cagagagttc 1080
gccgaacatg tagaggaatt gaccaggtct cggccgtcct caaaagtcat tagagggaaa 1140
ccgggtactc atcaccgtga gcgagtggct gctgcacttg tcgctctttt ccaaaacgac 1200
gcaaaccgcg aatatttttc aaccgcggca ttgaacagag cactgtcatt tctgttcgac 1260
aatgaa 1266

<210> 3913
<211> 684
<212> DNA
<213> A.fumigatus

<400> 3913
gcggtatttt taatagacgt acactggcag ccccgcggtg aagacaaact cgctaaaaat 60
atctattcga tggatgctta tatattcatg acactgaggc taccgcacct ttttcaactt 120
gttccgtttg cgacccagca cgtcgcgccc ctcgtcaatc tccaccatgg cctctcgctt 180
cgcctcgcca acttccttga gggcaccggt tcgcaccagg cgaccctcga tactgacgcc 240
ctcctcgctc cactcctcca tctgccggcc gacgcgctcc tcgatcgcca gcacaagctg 300
cacatcccgc tgtccgacca gcgtgacggc ctcgccgcgg cggcccgcac gcgccgtacg 360
accgacacgg tgcacgtagt cgtccgggtt gcggggcaca tcgtagttga tgaccaggct 420
gacggtaggg atatcgagac cacgcgaggc gacgtccgtg gcgacgagga tgcgggccgc 480
ggaggcgcgg aagcgggcga ggttggcgtt ccgctcggac tggggaagga gactatgcag 540
ggaggtgacg cggtgggaga ggcggcggag catgcgctcg agcaggtcgg cggtcttggt 600
gtgattgcag aagacgatgg caggtttgga ggcgttgccc tcggtggaga ggaggacgtg 660
caggaaggct tcgcgatgcg ttag 684

<210> 3914
<211> 669
<212> DNA
<213> A.fumigatus

<400> 3914
aagtggattg atcacgtgag acttacaccg cctttgcgcg gtcgcctttt tttgccgaag 60
aatttcgaag aatttcagca tcgcaaaaga tatccaacaa gcacaatgac gtcccccgtt 120
ccctcagagc cggtatctga ggatacacat gattcatcta gcggttctga agtagaacca 180
tccaaaacct ctacccgagc ccccaaaaga cgacgactct ccgaatcctc tgacgactct 240
gacgactcgt acgttgcgcc ggcgccgctc cccacccttt cccgtatcaa aaagaagggt 300
gcaccagatg cgaaaccggc agctccagca ggtcaagata acccagtgct gatccgtgat 360
gcgttggaaa ttgggctgcg ggaggaagcg tcgtcgtttg ctgcgttgaa tgtcgcgccg 420
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tgtataccgg agattctcaa ggggagggac tgtatcggtg gaagccggac tggttccggt 540
aagacgattg cgttctccgt tccgatgcta cagaagtggg cggaagatcc gtttgggata 600
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cggtattga 669

<210> 3915
<211> 567
<212> DNA
<213> A.fumigatus

<400> 3915
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tctcccaccg cgtcacctcc ctgcatagtc tccttcccca gtccgagcgg aacgccaacc 180
tcgcccgctt ccgcgcctcc gcggcccgca tcctcgtcgc cacggacgtc gcctcgcgtg 240
gtctcgatat ccctaccgtc agcctggtca tcaactacga tgtgccccgc aacccggacg 300
actacgtgca ccgtgtcggt cgtacggcgc gtgcgggccg ccgcggcgag gccgtcacgc 360
tggtcggaca gcgggatgtg cagcttgtgc tggcgatcga ggagcgcgtc ggccggcaga 420
tggaggagtg gagcgaggag ggcgtcagta tcgagggtcg cctggtgcga accggtgccc 480
tcaaggaagt tggcgaggcg aagcgagagg ccatggtgga gattgacgag gggcgcgacg 540
tgctgggtcg caaacggaac aagttga 567

<210> 3916

<211> 1068
<212> DNA
<213> A.fumigatus

<400> 3916
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gcggggagac cgcatgtggt gattgcgact cccggccgct tggcagacca catcaagtcg 180
tccggcgaag atacagtgtg cggcctcaag cgggtgcgca tggtcgttct cgacgaagcc 240
gaccgactgc tcgccagcgg gccgggtagc atgctccccg acgtcgaaac gtgcctctcc 300
gctatgcctc cctccagcga gcggcagact ctccttttca ccgcgacagt caccccccgaa 360
gtgcgcgccc tgaagaacat gccccgctcc gccaacaaac cgcctgtctt cgtgaccgag 420
atctccacgg agaatcaggg cacgatcccc ccgacgctca aacagacata cctcaaggtg 480
ccgctaacgc atcgcgaagc cttcctgcac gtcctcctct ccaccgaggg caacgcctcc 540
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cgccgcctct cccaccgcgt cacctccctg catagtctcc ttccccagtc cgagcggaac 660
gccaacctcg cccgcttccg cgcctccgcg gcccgcatcc tcgtcgccac ggacgtcgcc 720
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cggcagatgg aggagtggag cgaggagggc gtcagtatcg agggtcgcct ggtgcgaacc 960
ggtgccctca aggaagttgg cgaggcgaag cgagaggcca tggtggagat tgacgagggg 1020
cgcgacgtgc tgggtcgcaa acggaacaag ttgaaaaagg tgcggtag 1068

<210> 3917
<211> 954
<212> DNA
<213> A.fumigatus

<400> 3917
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agtttgcgtc aaatggagta tatgcagcaa cggcaacgca gctatttttc acgctacagt 180
atctgtctca tcattggctt cctgctactt ttggccattg gaggcgctac ctcatttatt 240
atcgggatta caaagccgct ggtggacgtg caagtgcttg ccatccagaa cgtgctcgct 300
tcggagcagg agatcatgtt agacctcaga gtgcaggccg tgaatcccaa tcttttctcc 360
gtggctgtcg atgatatgga tgtgaacttc ttcgccaaaa gccgatttgt gggaacagac 420
aagctctggc gcgatcacag ctcggatccg gacgggtttc cccgcgttga acaaagcagg 480
aaacgcgcag aactgactcg acttgcaccc tgtggcaggg ataccgaatg cacgcctgat 540
gtgcttgccg gagagtccct caagatcact ggaggcgtcg acaagggcac tgatcctata 600
ccgactgacc ctgctggtga tcctcagacc atgctgctcg gccgtgtttt tcactttgat 660
tcgcccctcg cgttcgagcc gtctccctgg aaccacatat ccaccacatc caaaggtcag 720
atccgcctcg ctcgacctgg caacaaaacc gaagaaggcg gcacggagcg gtgggagcgg 780
gtacttcagc atccctttga gttgattgtt cgcggagtca tcaagtatca gctacccttg 840
agctctaggt attactcctc gcctgtgagc tctagcgtaa aggtggtacc caatgatgac 900
aatcatgatc ttcccctcgg gagtggcaga tcagcggcca tagtcggggg gata 954

<210> 3918
<211> 252
<212> DNA
<213> A.fumigatus

<400> 3918
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tggccaattc taacactact gcctaggact accgcctatc agcgagcttc gtcttcggct 120
gcctttgctg aagctcagtc ccaagcaaag aggttcgaaa gtgaggctta tgagaaagct 180

acctcgaagg tctgttctcc accagggtca tcaaaccgtc tgctcataaa ggatcttgca 240
ggaagattat ga 252

<210> 3919
<211> 867
<212> DNA
<213> A.fumigatus

<400> 3919
aggatcttgc aggaagatta tgaccggatg tgccaggatg ccatcgatgc cgcagaggcc 60
agtggttcgg tagctccaat gatcagcagt ccagaccagt tgcaacatga gcccgaagag 120
ggtgcctgga caggggaga atcgatcggt ccgttcaaag gatgtctcca tgtgtttgat 180
ggacttcatt ccactatcta taagtccaag cgtgaggatg gagctgtagt tgcggtcaaa 240
gttaccatcc cccatctctt gactccacca catgacgctg agcgcgaggt tcgacttttg 300
agagaagccg cgagtcctca tgttataagt ctgctggact cgctcaaggt tgacggagga 360
agactcatcc tggtcttccc ctacttaaaa tatgacctgg agcatttgct ccgccgtgat 420
atgctcactg caacgctaat aaaggcccat ttgcacgaca tgttcagcgc gttggcacac 480
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cctgacggcc cggcgtacct ggcggacttt ggtatcgcat ggaaagaagg ggacaagggc 600
tccgagccgg ctgacaagaa aattaccgat gtaggaacca catcttatcg agcgcctgag 660
atcctgtttg ggttcaaggg atacgggaca gctttggatc tgtgggccgc tggttgtgtt 720
gtggccgaag ctgtcgctgt cgggcacaag cagctgtttg attccgggcc tgtggggagc 780
gatctgacgc ttgttcagtc gattttcaag accctgggaa ccccagatga gagtacctgg 840
cccgtacgtc atccgtctat actgagt 867

<210> 3920
<211> 534
<212> DNA
<213> A.fumigatus

<400> 3920
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acggaattga ttctggagaa cgtcctgtcc gaatacgagc ctgaagaaat tgttgcgctc 120
ttgtccgcat ttgtcttcca ggagaagaca gagaacgttc ctactttgac ccctcgcctg 180
gagaagggca aggaggcgat tattcggatc gccgagaagg taaacgacct ccaaatccaa 240
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ctggcggagg tagtttacga atgggccaag ggcatgtcct tcaaccgcat cacagacttg 360
acggatgtga tggaaggtac cattgttcgg acgattactc gactagatga gacttgtcgc 420
gaagtgagga acgcggcgaa gctggttgga gatccgacgt tgtacgcgaa gatgcaacat 480
gcgcaggagc tgatcaagcg cgatgtcatc tttgcagcat ctttgtacat gtag 534

<210> 3921
<211> 576
<212> DNA
<213> A.fumigatus

<400> 3921
ttgtttagcg cggatgccgc gacccccgtg gtgaagacac aagctaattc gaaacacaca 60
gaggcgatta aattcgcgga caaggagctt tcgaaacttt gcgcttcctg gactagccct 120
atctgggatg agatggactg ggctcggatc aaagagctac aagtgcggga catattagaa 180
aaacggcaag cacaggcagc tatcactcaa tcatgccgtt gcttacagtg cccgtctttc 240
atgaagcacg tgagttgcca tcgcctgtat aactggttcc tcgtaaacta cattgttact 300
gactttgggc agttcgagat gcagcacgat gaatggcagg tgaaggagaa tatctctcag 360
ctaaaacagc tcatgtcgga ccaaaacctg caactactac cggactacga gcagcgtatc 420
caagttctaa gagacctagg gttcattgat gagcaatctc gagttcaact gaagggcaaa 480
gtcgcatgtg aggtgagtca tcaaatattc tgtgaggctg gaaggacaga gctaatatct 540

atggacagat tcactcggct gatgagctgg tgctga 576

<210> 3922
<211> 777
<212> DNA
<213> A.fumigatus

<400> 3922
tacctcccga tgtacttcca gaccgtgctg caggctcccc cgatcgtcag cggcgtatac 60
gtcctccct tggttctgag catctccgtg gtctccgcag gcacaggcat catcatcaaa 120
aagacaggtc gctaccgcga gctgatcgtc ggcggcttgg gcctcatgac ccttggcttc 180
ggccttctca tcgacatgaa atattacgcc tcctggcccc gcatcatcat ctaccagatc 240
atcgccggtg taggcgttgg cccgctcttc caggcccccc ttgtcgcgtt ccaggccaac 300
atccaccgct ctgacatggc aaccgccacc gcaaccttcg ccttcctccg ccaggcctcc 360
tccgccatct ccgttgtcct gggcacagtc gtctaccaga acgacctcgc gcgccaacag 420
cccgccatcg aggccgccac aggccccgaa accgcagcta tactcgctgg ctcctttgct 480
ggctccactg gctcacttgt caagtctctc cccgaggctg cccgcatcgt cgtcctcgag 540
tccttcacgc atagcctgag caggctgtgg atcttctaca cggctgtcgg cggcttcggc 600
ttcctcgtca gtctcttcat ccggcccgtc gagctgagca aggcgcacac ctttacgaag 660
accggcttgg cggagcagga gcgcgcccgg aaggagatcc tcgcggagca gaaggctgag 720
gctgaagctg cggcggcagc caagcggact gatccattgc caaaggcgga ggtataa 777

<210> 3923
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3923
atcctacttc caacacctga ctgcttagca gcagagtatg aatccctttc caaatcaata 60
ttattaacac ctccttgttc gtgtcttccc cactctctct cttcttcctc cctgtcaact 120
ctcctctctc cctctctcac ttacttcctc actgcctcac tctacttctt ttcctcccca 180
cttgtgaagt atttcctgaa acttttcccc cctctgttct cttcgctgtt gctgtga 237

<210> 3924
<211> 312
<212> DNA
<213> A.fumigatus

<400> 3924
ccatgcagtg catatccttc ttgggatttg attggtctca attccagaac tttgactgac 60
ctctgtcgca gtatgtattc cgccgaccaa ttcatgaacc ctgggcccgc tccgcgcccc 120
cctaccgacc gtccaaagct ctcactccct tcgaatccct ccggcgtagc cacttcattc 180
agtcaaatga gtctcaattc tccaagtact cctggatctg ccaatctgtc actatttccc 240
aacactagca gcccgtccct ctcacagacc aagacaaacc agaccggcca gggggcgttg 300
ccgtcgtctt aa 312

<210> 3925
<211> 555
<212> DNA
<213> A.fumigatus

<400> 3925
acccctggcc gccaactcca cataggagac cacacttcat tcttcccccg ccataattgc 60
agcaccctcc gtctcccttc gagctcctcc tggatcatca agtccgaaag gattagactc 120
gtcgcagcga tgaataccac ccttccatcc tggaaggatc ggacgcaaaa ccagttcggc 180
aagctccaga tccaagtccc atggcgcacc atacaacttc tcgtgccgca ccgtatgcga 240

cggaagattc ggtccaagct gcgcagtcgg atctcgccta cctcatcgat atcctcgttg 300
cagacgtcat tctcacctgt cgatacactc aggtcgctgc aaagtcatag atggacgctc 360
tatgactttc agtatctttt gctgctgatt gtcggcatat tctcgctgag cgttatggaa 420
tcacctggac cattggcaaa gaccgccgcg tttacgctac ttctcatctc tctccttctc 480
ccgattacgc gccagttctt cttgccattc ctcccgattg caggatggct tatatttttc 540
tacgcttgcc agtaa 555

<210> 3926
<211> 657
<212> DNA
<213> A.fumigatus

<400> 3926
gcgttatgga atcacctgga ccattggcaa agaccgccgc gtttacgcta cttctcatct 60
ctctccttct cccgattacg cgccagttct tcttgccatt cctcccgatt gcaggatggc 120
ttatattttt ctacgcttgc cagtaagttc acctccttag ggacaatcac gatatgtgat 180
gagtacttat gtcttcctga aaggttcatc ccgagcgact ggcgccctgc aatctgggtt 240
cgcgtgctgc cggctctgga aaacattctc tacggtgcta atatcagtaa catcctttcc 300
gctcaccaaa atgtggtgct tgacgttttg gcgtggcttc cctacggaat ctgccattat 360
ggcgcgccat ttgtgtgctc agcgatcatg ttcatctttg gtcctcccgg caccgtcccc 420
cttttcgctc gaacttttgg atacatcagc atggctgcag tcaccattca gctgtttttc 480
ccctgctctc ctccgtggta cgaaaatctg tatggtttgg ctccggctga ttactccatg 540
ccgggtaatc ctgcgggcct tgctcgcatc gatgagcttt ttgggataga cttgtacaca 600
tcgggcttca gacaatctcc cggcattcgc gcggggatga ggaacgcgtc ggaaaca 657

<210> 3927
<211> 810
<212> DNA
<213> A.fumigatus

<400> 3927
agtgaggaaa aattcttctc gcgtgatgtc acccacgtcg tcacctctcg tcccatcccg 60
cctgaaatcg acacagtacc tcctgcagaa ttgaacgcta catctgctga tcagacaccg 120
gttgataccg tcaacccgtc cttgcttgag aaaaccgcag acacacatct ccatatgtcc 180
ttgaagactg accagcgacg tgagccaagc aatatggatg ttttataccg ggctcgccgg 240
atgaaaatga agatatgggc tcttgagaag ttgcaacgta tgattgctgc tataaatgac 300
ggggatcccg gtggtcacag cagtcattcg cgcatccata atgctgttgg tggaaacact 360
aaggcccgcg gcgagtcaga cctatctcag gtcttacgga aggagctcgt cagcggtcct 420
tcggacaggg accctctgtc gtccttgaag gagctggtgt tgttcaaagg gccgttcatc 480
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gcaaggagac aggatggtat ctggccacaa ttcagaagcg ccccgctggg gaaatgccct 600
ttcattgacg aacctcccag caagaaagag attgaaaggc aacgggcacg ccaacaagag 660
aaggagaaga aacttgctcc gaaagctcct gccgttaaag aagtacctaa atttgacgca 720
ccagatgtag gccccgtgaa cttggacaat cgtcttcacc acggggctgg aaggatcagc 780
gctcttcatt tccagggtct tcaaaggggt 810

<210> 3928
<211> 330
<212> DNA
<213> A.fumigatus

<400> 3928
gcaaaagaga ccatttgcga ccaggctagc gtcgaggcga aactatgcga agcagatcaa 60
ataggttcct tcattctggc tgccaacgcg agcgaggcat ccaaattccc tattatatct 120
caggcggtgc atctgaaaaa tccgactgca attaattacc ctgtcaagaa gacaggcttc 180
tattgcgtca gcacttacgg atattctggg aaggattaca aagcggcagt tgagttcaga 240

aattcatatg gtgaacttcc ggctgcgcaa attgcaaaac ttccgttcta cggtggcttg 300
actattgtct atgccgtcat tggagtgtag 330

<210> 3929
<211> 525
<212> DNA
<213> A.fumigatus

<400> 3929
ccagtagcag atttccagaa tcggcacggt ttgaatatcg gtgcaaaggt gctgatggtg 60
atcgtcgctg tcctaaatgc gggacgcaat tctttctcat ttttcctttt gctcatcgtt 120
tgcatgggat acggcgtggt caagccctct ttgggccgga ccatggtcta tgttcgtatc 180
ctggcaatca cccacttcgt tttcggtgtc atctatgctg ttgcaagtct atcaattaca 240
cccgatagcg ctgggccact ggtcctcctc atcgtgctcc ccctggctgg tacactgact 300
gcattttatg tgtggacact gaactcctta aacgcaacca tgaaggatct gatcgaccga 360
aagcagaagg tcaaagcaat gatgtacaag aagctctggt ggtgtattct gggcagcatc 420
atcgtgatct tcggcttctt tttcatcaac tcattcgctt ttgctcgtcg tagcgaagca 480
agattcggcc cagagcagtc tacaccagcg gtggagatca atgtt 525

<210> 3930
<211> 1254
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (113)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3930
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aaagagccag cacctggaaa gcttggaaag tggtctcgat tcgccggttt gtntagtccg 120
cttccaggaa gcccagcgaa ggaatcggag caccaatttg gaaccaaatc accagctccc 180
caaccttcga ccaatgatgc ggatcaggaa gggttccagc gcatcttaca aatgcttgga 240
ggaagcaaat cgcgcaacgc gacaccccaa atcgacagcg cgcaggctcc tcgcccaacc 300
gtggcgcaag tcgattcagc tctgaatgct ctctcttctc cttccaagga ctcagtgaga 360
cggccagaaa ccatggcagt gccggatacc catcctcaca gcacggttcc ctcaattcca 420
gaaaacatgc acgcacacga ctccccttc aaggaccctc agcctcgtga cagagagcat 480
cttcttcgtt taatgcaaca ggtcagggtg agcccggtcg ctccacaatc tcacggacta 540
cagggtcaac ctcaaagtgc cggtccagct cctggtgtaa tgaacgtgcc ggaagtattg 600
tcccgccccc cgggcatccc gactgctcag aaaggacaca atttcttgga tgaccccgct 660
attgccaaca tgcaaagacc agatgctgat cagcttcgga gaagacctgc caatggaccg 720
cctatgggtt actttgatga ggtcccattt ccccaaggcg gtcatatgcc aatcacccct 780
ggtggctcca ggcctcctca agggcagggc catcctggca tgggtattca gcgaccaccg 840
ggctttgagc atcttccacc tccgggatgg aatggtcctc agatgcctcc gcagcagggt 900
ggcggcccca gccccttggt tcctcctccc ggcattccaa ccccaacacg aggtgtcaac 960
ccgaacttca tgatgccacc tatgcatggc aacgttccgc ctcccaatga acgccagcct 1020
ttcccacgcg gtgcgggccc ccttccacca gggatgatgc cccctcctgg atacatgaac 1080
gtcccccccgc catccgcttt cccacctatg ccacataata gtgacgctct cctgggactt 1140
ggtcatggcc agggcccttt tgagggtaat cctggtccac aaggacctcc cccatcctcc 1200
agacatcttt tggacatgtt tggccaagtt ggtggcccag ggcagttccg gtaa 1254

<210> 3931
<211> 186
<212> DNA
<213> A.fumigatus

<400> 3931
tacacagcac caatcgaata catgccgatt gatgatgttg agacgctcga ccggtatcgt 60
ccaggaggat accatccggt aactgtcgga gggcagctgg gtggtagata ttctatcgtc 120
cataggcttg gcttcggttc atactcaacg atctggctgg caagaaacca ggacgccgga 180
cgatag 186

<210> 3932
<211> 453
<212> DNA
<213> A.fumigatus

<400> 3932
gaatcgtccg gacacctttc tagcgtagtc gtcgtctatt tcgatatcag tatagaggtc 60
aggtgctcca ctgtgccagg acttggagca cacgtcgcca tgcgatttca ctgtgcatac 120
aatcatgtat gttgctctcc attattcaaa aggttggtca atctcaagtc ctgcacgact 180
atctccgcat acattcaacc gtggagaact atgaatttct gccgttaccg tcccaggctc 240
gtcttggtca gttcgtcgcg tctcatgaag ttagccttcc accctaactg cactacacta 300
agttcgaacc catattatta tacatctcat accggcagga tgggatcaaa agtcgccgag 360
gaaaactgtg atacacagca ccaatcgaat acatgccgat tgatgatgtt gagacgctcg 420
accggtatcg tccaggagga taccatccgg taa 453

<210> 3933
<211> 390
<212> DNA
<213> A.fumigatus

<400> 3933
gcttggcttc ggttcatact caacgatctg gctggcaaga aaccaggacg ccggacgata 60
gtcgctataa agataccggt cgcaacacgt ggttctactg agacgcgaca aatcgatatc 120
ctacgctggt taaataaaac agggttggga gaaaaggctc atcccggggc agcatacatc 180
ccgtcaatat tagatagctt ttctctttct gggcctaatg gcgtgcacca ttgttatgtc 240
actgaacccg gaatgacgag tctaggagaa gctaaagatg cctcctctat tcgccttttt 300
cagctgcctg ttgctcgggc tatggctgcc caacttgtcc aggcagtggc attcctacat 360
tcccaaggta ttgttcacgg cggtaactga 390

<210> 3934
<211> 279
<212> DNA
<213> A.fumigatus

<400> 3934
tggagagcaa catacatgat tgtatgcaca gtgaaatcgc atggcgacgt gtgctccaag 60
tcctggcaca gtggagcacc tgacctctat actgatatcg aaatagacga cgactacgct 120
agaaaggtgt ccggacgatt cctatcagct aatcaaccca ttttccgcaa tttcacgcgt 180
atatatgcgt atatatgcgt tttctgtgtt gctcagcgaa ctcaatatga tgctttggca 240
ctacccctgt tgctgcgcct tcgaaaccta atgttctag 279

<210> 3935
<211> 228
<212> DNA
<213> A.fumigatus

<400> 3935
caaggcgcag actcggtaat tgctacggtc actcgggcag atgggagtgc tgaatccacc 60
ttccgtgctt tatttctcgt aggtgctgac ggcaggaagt cgacgacccg gaagctactt 120

ggcacccaat tcaagggcca tagctggcct gagcgtctgg tggccataga tgttcggata 180
aagatgctga gtttgacgag aatcctccgg acctcgcttt ttgtagtc 228

<210> 3936
<211> 738
<212> DNA
<213> A.fumigatus

<400> 3936
atcctcaaag gctataagac tattatcact cttcccgaga agatgtccgc tgagaaagtc 60
tctgtactgc gggctttgaa cgctactatt atccgtacgc ctaacgaggc tgcctacgac 120
tcccccgaat cccatatcgg cgtcgccaag cgtctcgaga aggagatccc caatgcgcat 180
atcttagacc aatacggaaa cgtgaacaat ccattagcgc acgagctcgg cactgcggaa 240
gagatctgga ctcaaactaa tggcaagatc agtgctatcg tcgcaggtgc gggtaccggt 300
ggcactatca ctggcctggc gcgaggcctg aagaagcaca atcccaatgt gaaggtcatt 360
gcagctgatc ctcacggttc tatcctggct gttccggccg atctgaacaa ggagcatgaa 420
aatgagccct acaaggttga aggtatcggg tatgatttca ttccgcaagt gcttgaccag 480
agcgtcgtgg acaagtggta caagactggg gacagggagt cattccaata cgctcggcga 540
ttgatcgccg aggaaggtct tcttgttggt gggagcagtg gaagcgcgat ctcagcgctg 600
gtacaggccg cagcagatca caccttcacc aaagacgatg tagtagttgt gattctgcct 660
gatagtatcc ggagctatct cacaaaggta caatccaggc cctggctatc tctttttgtc 720
aaatctgaca ggtcatag 738

<210> 3937
<211> 351
<212> DNA
<213> A.fumigatus

<400> 3937
tttgccgacg acgactggct tgccgcaaat gatctgctgc cctcgttatc ctccgaaact 60
acgttggtat cgcagagtgt gcaaccagag gcaccaaagg ataaattcgc tggagcgaat 120
gttaaatcct tgagactgaa gcccatcaca accgtccggt ccaacatccc ctgtgagaat 180
gctatcgaga ttatgcgcga tagaggattt gatcaacttc ccgtccttgc accctctgga 240
aagaagcttg ttggactggt cactttggga aatgtcctca gtcggctgac acacggacgc 300
gctacgaaga agagcttggt cgcagatgtc atgttcgact tcggcaagat c 351

<210> 3938
<211> 339
<212> DNA
<213> A.fumigatus

<400> 3938
ttgaagcttg atatcctgat ttctatatgg cctttcctgg ggcctatcgc tcatacaatg 60
tcgtccaaaa cgtccccaac cgtgcctcca gtggcccttg atgctatcac tcaacacatc 120
ggcaataccc cacttgtgcg cttaaatcgc gtaccaaaga gccttggagt tgaagcgact 180
gtatatgcga agttggaata ctttaatgcc gggggtagcg tgaaagacag aatcgccctg 240
cgcatgattg aagaagccga gagatcgggg cgcatcaagc ctggtgatac cctgattgaa 300
cctaccagtg gtaacacgtt agttgcgcca tctccttaa 339

<210> 3939
<211> 750
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (22)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3939
attggcggca aggcccgcga cntggagccc ttcaagcgct ttcctacctg gatgtggcgc 60
aaccgcgaga tgcaggatct cgtcgagtgg atgcgcaacc gcaacgccaa actgcccaac 120
gagaagaagg ccggggtcta cggcttggac ctctacagca tgggcgcgtc gatccgcgcc 180
gtcatcgatt acctggaccg cgtggatcca cccgcgggca aggaggctcg ccgccggtac 240
ggctgcctcc agccctgggt ggacgaaccg tccgcgtacg ggctggcctc gctccggggg 300
atggaggact gcgagagcgg cgtgctgcag atgctgcgcg acctgctgga caagcgcctg 360
caatacgcgc agcacgatgt gcgtgatggg gaggagttcc acagcggcga gcagaatgcg 420
tttgtcgtcc gcgacgcgga acggtactac aaggccatgt actacagttc cgcctcctcg 480
tggaccctgc gtgacacaca catgtttgat actctgcggc ggctgttccg gcacaagccc 540
gctggtgcca aggccatcgt ctgggcgcac aactcgcact gcggcgatgc gcgctatacc 600
agtatgggca cgcaccgcaa cgaggtgaat atcggccagt tgatccggga gaattttggc 660
cgtgagaatg tcgcaatcct cggatgtggc acgcatactg gcaccgtggc cgccgcccac 720
gaatgggacg acgatatgca ggtgatgtag 750

<210> 3940
<211> 360
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (329),(346)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3940
gtgcggccgt cccgtgatga cagctgggag accattgccc acgatacggg gatccccagc 60
tttgtgattg atctgcgcaa ggaacacctc gatccagctt cgcgtacggc gatggccgct 120
gaaaacagtc gactggagcg gttcattggg gtcatctatc gtccggatac ggagcgtatc 180
tcgcactact cgcaggcata tctccacaac caattcgacg cgtatatctg gttcgacgtt 240
actgaagccg tgaaaccact ggagaaggtg cagccaaaga ctcccttagg acaggacgag 300
acctatccct ttgttgtatc ggtgtcgtnt tctcctcatg gccatnagca ccaaaggcga 360

<210> 3941
<211> 627
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (21)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3941
ttggcggcaa ggcccgcgac ntggagccct tcaagcgctt tcctacctgg atgtggcgca 60
accgcgagat gcaggatctc gtcgagtgga tgcgcaaccg caacgccaaa ctgcccaacg 120
agaagaaggc cggggtctac ggcttggacc tctacagcat gggcgcgtcg atccgcgccg 180
tcatcgatta cctggaccgc gtggatccac ccgcgggcaa ggaggctcgc cgccggtacg 240
gctgcctcca gccctgggtg gacgaaccgt ccgcgtacgg gctggcctcg ctccgggggа 300
tggaggactg cgagagcggc gtgctgcaga tgctgcgcga cctgctggac aagcgcctgc 360
aatacgcgca gcacgatgtg cgtgatgggg aggagttcca cagcggcgag cagaatgcgt 420
ttgtcgtccg cgacgcggaa cggtactaca aggccatgta ctacagttcc gcctcctcgt 480
ggaccctgcg tgacacacac atgtttgata ctctgcggcg gctgttccgg cacaagcccg 540

ctggtgccaa ggccatcgtc tgggcgcaca actcgcactg cggcgatgcg cgctatacca 600
gtatgggcac gcaccgcaac gaggtga 627

<210> 3942
<211> 711
<212> DNA
<213> A.fumigatus

<400> 3942
accgctccag tcgactgttt tcagcggcca tcgccgtacg cgaagctgga tcgaggtgtt 60
ccttgcgcag atcaatcaca aagctgggga tccccgtatc gtgggcaatg gtctcccagc 120
tgtcatcacg ggacggccgc acctacatca cctgcatatc gtcgtcccat tcgtgggcgg 180
cggccacggt gccagtatgc gtgccacatc cgaggattgc gacattctca cggccaaaat 240
tctcccggat caactggccg atattcacct cgttgcggtg cgtgcccata ctggtatagc 300
gcgcatcgcc gcagtgcgag ttgtgcgccc agacgatggc cttggcacca gcgggcttgt 360
gccggaacag ccgccgcaga gtatcaaaca tgtgtgtgtc acgcagggtc cacgaggagg 420
cggaactgta gtacatggcc ttgtagtacc gttccgcgtc gcggacgaca aacgcattct 480
gctcgccgct gtggaactcc tccccatcac gcacatcgtg ctgcgcgtat tgcaggcgct 540
tgtccagcag gtcgcgcagc atctgcagca cgccgctctc gcagtcctcc atcccccgga 600
gcgaggccag cccgtacgcg gacggttcgt ccacccaggg ctggaggcag ccgtaccggc 660
ggcgagcctc cttgcccgcg ggtggatcca cgcggtccag gtaatcgatg a 711

<210> 3943
<211> 1035
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1014)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3943
gggagtcttt ggctgcacct tctccagtgg tttcacggct tcagtaacgt cgaaccagat 60
atacgcgtcg aattggttgt ggagatatgc ctgcgagtag tgcgagatac gctccgtatc 120
cggacgatag atgaccccaa tgaaccgctc cagtcgactg ttttcagcgg ccatcgccgt 180
acgcgaagct ggatcgaggt gttccttgcg cagatcaatc acaaagctgg ggatccccgt 240
atcgtgggca atggtctccc agctgtcatc acgggacggc cgcacctaca tcacctgcat 300
atcgtcgtcc cattcgtggg cggcggccac ggtgccagta tgcgtgccac atccgaggat 360
tgcgacattc tcacggccaa aattctcccg gatcaactgg ccgatattca cctcgttgcg 420
gtgcgtgccc atactggtat agcgcgcatc gccgcagtgc gagttgtgcg cccagacgat 480
ggccttggca ccagcgggct tgtgccggaa cagccgccgc agagtatcaa acatgtgtgt 540
gtcacgcagg gtccacgagg aggcggaact gtagtacatg gccttgtagt accgttccgc 600
gtcgcggacg acaaacgcat tctgctcgcc gctgtggaac tcctccccat cacgcacatc 660
gtgctgcgcg tattgcaggc gcttgtccag caggtcgcgc agcatctgca gcacgccgct 720
ctcgcagtcc tccatccccc ggagcgaggc cagcccgtac gcggacggtt cgtccaccca 780
gggctggagg cagccgtacc ggcggcgagc ctccttgccc gcgggtggat ccacgcggtc 840
caggtaatcg atgacggcgc ggatcgacgc gcccatgctg tagaggtcca agccgtagac 900
cccggccttc ttctcgttgg gcagtttggc gttgcggttg cgcatccact cgacgagatc 960
ctgcatctcg cggttgcgcc acatccaggt aggaaagcgc ttgaagggct ccangtcgcg 1020
ggccttgccg ccaat 1035

<210> 3944
<211> 561
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (10)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3944
aagtcctcgn aacaattccc ttctttactt tcttacgggc aatcttgcgg ttttggcgct 60
atctttgtgg agctgtactt catcatgact tctctgtgga cgaacaagat ttactacatg 120
ttcggattcc tcttcctctg ttatgggctc atgatcatga ccactgcggc caccacggtc 180
ctgttggttt acttttttgtt gtgcgctgaa aactaccggt ggcattggag ggctttcgct 240
ggagccggaa tgactggctt ctacgttttc atcaatgcct ttattttctg gatcactcga 300
gtgagcttcg gtggactcac aggggcagtc ctctatgtgg gctactcggc cttgattggt 360
tttctggttt tcatcttaac aggtatgttg ttcgtccttg aaccaggctg gagggtttgg 420
agttggtgtt taactcattt tgcacaggtt cgattggatt cttcgccagc tgggcgtttg 480
tgcaacgcat ctacggctcg atcaaggtcg actaaccttc ggacattatt tatgccattc 540
aaagtcataa ttatcaggta g 561

<210> 3945
<211> 648
<212> DNA
<213> A.fumigatus

<400> 3945
ccccagaccc agtggtgcca catcggcaaa cgcagcctcg accgcgccat cgccctgtac 60
cgcaaaacct acccaggcgg ccgcaacgac accatcacca tcaaatggcg ccccttttat 120
ctcaacccca accggcacgg acgcagtgtg cccaagtctg ttcttataga tgaacgtctg 180
aaggacaaga cgcccgagca gcgtgccgcg atggtcaagc gtgtggaaaa gatcgcccag 240
tcggtagggg tccgcatcaa ctatggaggg atgattgggc cggacacgcg cgatgcgcat 300
cgcctggttt acctgagtcg ggaggatcct gcaattagct cggagattca tggggagctg 360
gtggagaggc tgctcgaggc gttccatgaa cgcgcgatgg atatcactcg gccggaggtg 420
ttgaaggagg cggcggctgc ggcggggatt gaggctgcgg tggtggagag gtggctggcc 480
gaggatgttg gcaatgttgt cgatgaggag gcaaggaagt atagagaggt tgaagggatt 540
aaggggttc cgaggtttcg gttccaaggc aagtatgagt gggatggaga ggatctgcaa 600
gagtgtatgg agatcatggg caaggtgaag gcagaggagg ggagttaa 648

<210> 3946
<211> 396
<212> DNA
<213> A.fumigatus

<400> 3946
acctttcttt ctgatgatgt atttgtggag caacggattg atgcgccttt cagccccat 60
gcggatcatg acaaacttaa ctacctccac gcctacatat ccttctccta cagggaccgt 120
acccctatc tgagtgtcta tcttcaatcc ttcgagacag gggactgggc agttggtaag 180
ccgatttacc tcccaaacaa gacgttcatt ggctcccta ttatggatgt catcctgaca 240
atacaccagc aaacttatcc gaatcaaagg tcaagtgtca ggatgcggcc tgtcaaccca 300
cagctttacc tccagatctg tcaaagacag gggtatatta ttccggtctc cactgatgaa 360
cagctcggga cttacttccg ggctgtaacc cgatga 396

<210> 3947
<211> 411
<212> DNA
<213> A.fumigatus

<400> 3947

ccatttatgt atgactactt ggtaacaatg ggttctcatt caccgctaaa attcgaatac 60
atgcgcctct ctggactggg tcttttcagc ccttgcatca caagctcttt atcattgaca 120
cctgaccagc cggatgcatt tacttctcct tgcagcacac acgcctctca gagtatcgcc 180
acgccaaagt cgcatgacca aagacaagta atggctgacc aagttggctt ccaccgtctt 240
ttcagatccc tagcgtttat ccttagcgct gaggcacatg caagcccttа catccagcaa 300
cgtcaagacg atgatactct gaacattcca ccaatattcc tgggcagccc cacctctgct 360
gcaatggcta tcaacccctg tatggcagta tccgtggagg agtccggttg a 411

<210> 3948
<211> 195
<212> DNA
<213> A.fumigatus

<400> 3948
ttatgtactt ggtttacaag gacagtgatt ggacgaactc ggtatctcag gaagcttgaa 60
ttatggagag gtgacatcac tgtcttagct acagactaca gtttactacc acaccgttac 120
gctaatactt tgactgagag aatgattctc atctcgatca atcttcacca caaggccgaa 180
gatccgcgca aggtc 195

<210> 3949
<211> 339
<212> DNA
<213> A.fumigatus

<400> 3949
cccggtcgta gatggggccg gcaaccagcc cagtcagctg acggaggaag cattggatgg 60
agcctatcca agagatctgc aagaggaggc tttgaagagc tcgccgctct cagagtaggt 120
ttggaagacg gcaagtgtgt tgatcatgcc ccatgcattg aagaagagaa caaagccggc 180
ggcaacctgc agctatacca tgagtccgcc attaggaggc tgtcagcgca ggcctacaac 240
tatggcttgt tgattcatct ccatctcccg aatatgatgc atggaatcag cagcgatctc 300
gcccatgagt actccaagat cgtcttcacc gggggctga 339

<210> 3950
<211> 978
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (430),(513),(517)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3950
ggacgcggat ttccacccgt ggtgaagacc gataatagcg gcaatcgacc atggaccccg 60
ccatcctcga cggttactcc aggacctggg atgtcctact caccagtggt agaaaatcgt 120
ccttacaact atggtgcccc gcctccgcca acaaccagct atgagcgtcc tcacaacgta 180
tacccgtctc aaacttcaga aggcatggct ctgggatttt ccccgcagac aaagccacaa 240
cagtacgaca atgagtataa caactctgga cctccacctt acacccagca ctcctatggc 300
tcgccacagt catatccccc ataccctaca catgacacct atcctgcgca cccgcccact 360
cagccgccat atccacagga tcgaaaagat gaaagaggct tcatgggagc ggttgctgga 420
ggtgctgtan gggcctacgc cggtcatcaa gtccatcatg gcgtcttggg cactatcgga 480
ggagcgatca ctggatctgt cgccgaagac gcnatcnaga agcacaagaa gaagaagaag 540
aaagaaaaga aagaaggcaa atggggacat ggtcgccggt cctcatcctc atcctcgtca 600
tcggacagtg acaacggtcg ggctcatcat caacaacatc ctcctgcggc ggcttctctc 660
cgaagcaact tttccgcctc gtcgacggag aattacctcg agcacgaata tgagctgaca 720
gctagatgcc gttcgatctc aggggaaatg catcggtcga gtatctctct gaactcggtc 780

ctctccaacc acttcggttc ttttgtatgg gcacgtggcg gtaattttgg agcgtcggcg 840
agaaatgtgc atcttgctga aggcggaaga gtacttgacg ctgagctggc cgacggaaac 900
ggccattgga agagggcatg ggtgagattg gatgagcgga tcacgaacca gaacggacat 960
cttgtattcc tggattga 978

<210> 3951
<211> 369
<212> DNA
<213> A.fumigatus

<400> 3951
cagttcgaga gcagtgacgt gaacattatg gcctcatcgg caatatcagg agctgatctg 60
cgatcgttta ctgaatactt gaaagggtgt aaacggatac tggcactctt aggggctggt 120
atatccgcat cttctggact tcccacattt cgaggagccg gcggtctttg gcgatcttat 180
gatgccaccg atttggcgac tcctgaggca ttcgaggcca atccggacct agtatggcag 240
ttttacagct accggagaca catggcactc aaagcgaacc ctaaccgcgc gcaccacgcc 300
cttgcagagc ttgcaaggaa gaatagggat tttatcacac tcacacagaa tgttgatggt 360
actgtctaa 369

<210> 3952
<211> 657
<212> DNA
<213> A.fumigatus

<400> 3952
acaaggctga cgagtggacg cttcgatgta ggtctttcac aacgtgcaaa tcatccctcg 60
gaacagctcc acctcctcca cgggtcactt ttcacggtca aatgtacctc attctactgc 120
aactatgtgc gcgaaaatga ctttaccgat ccgatagtcc ccgagcttgc cattccgaaa 180
ggtgttccgg acttgagtcc atctgctgaa gataagactg gcgaggaggc ctcaaaggcg 240
ctatccaacg cattaagaat ggaggaaacg gaactggaca tatcagacga gaacgtcccg 300
ctccctgcct tgagtcagga tgtcctgcca cattgtccag aatgtaaaga agggcttttg 360
cggccaggcg tggtctggtt tggagaaggt ttacccttac atacgctaga aacggtggac 420
aagtggttaa attctggtcc cgtggatttg atcttggtga ttggaacaag ttcgagagtc 480
tacccagctg caggctacgt tgataaggcg cgtgcgagag gggcccgagt cgctgtggtc 540
aatatggatc gcaatgatgt tgggtattct ggcttgaaaa aaggtgattg gtttttccaa 600
ggagacgcgg gtgttatagt cccggagata ttgcagggtg tcattggaga catttag 657

<210> 3953
<211> 225
<212> DNA
<213> A.fumigatus

<400> 3953
tttgcacgtt gtgaaagacc tacatcgaag cgtccactcg tcagccttgt tcaactagac 60
tacaccagca ctaggatatg cagtttagac agtaccatca acattctgtg tgagtgtgat 120
aaaatcccta ttcttccttg caagctctgc aagggcgtgg tgcgcgcggt tagggttcgc 180
tttgagtgcc atgtgtctcc ggtagctgta aaactgccat actag 225

<210> 3954
<211> 189
<212> DNA
<213> A.fumigatus

<400> 3954
gatcgccaaa gaccgccggc tcctcgaaat gtgggaagtc cagaagatgc ggatatacca 60
gcccctaaga gtgccagtat ccgtttacac cctttcaagt attcagtaaa cgatcgcaga 120

tcagctcctg atattgccga tgaggccata atgttcacgt cactgctctc gaactgctat 180
gtttcatga 189

<210> 3955
<211> 243
<212> DNA
<213> A.fumigatus

<400> 3955
agcccagaat ccctaaatgt ctccaatgac accctgcaat atctccggga ctataacacc 60
cgcgtctcct tggaaaaacc aatcaccttt tttcaagcca gaatacccaa catcattgcg 120
atccatattg accacagcga ctcgggcccc tctcgcacgc gccttatcaa cgtagcctgc 180
agctgggtag actctcgaac ttgttccaat caccaagatc aaatccacgg gaccagaatt 240
taa 243

<210> 3956
<211> 624
<212> DNA
<213> A.fumigatus

<400> 3956
gttacgcaat accttctgcc cctgtcgtta gcacatcctc tttcggaggt ggttggacgc 60
aggccggtgt acggtgctac gcttctgctt gccttcatct tcgtcatacc ctgcgcggtt 120
tccaagaatc ttggcaccct tatcgtctgc cgagcgatcg atggtatcgc gttcagtgct 180
ccaatgacgt tggtcggcgg tactctggct gatctgtgga ggaatgagga gcgtggtgtc 240
cccatggctg cattctctgc cagccccttc atcggacccg ccatcggtcc tcttgtgggt 300
ggttatctct gccacgctgg ttggagatgg ctttactgga tccagctcat tctggccttt 360
gttgcctggg tcctaattac ctttactgtc ccggagacct atgcgccaat gattttgctg 420
aagagagcga agaaattaag gaagagtgaa aacgatccga agtacgtcac agagaccgaa 480
ttggacgctc gccccatggg agaaagattg cgtctcttcc ttctccgtcc attccagctc 540
ctgtttttgg aacccattgt tctgttcatc tccatttata tgtccgtctt gtatggcttg 600
ctatacatgt tcttcgttgc gtaa 624

<210> 3957
<211> 327
<212> DNA
<213> A.fumigatus

<400> 3957
ttacctcggt atgttttctt caatttcctc aacgatggta tagtgcttat tgttaccaca 60
gtggatacat accagcatca ggcagcctct gcccttgctg caaagacttt cctccgttcc 120
atgtggggtg cttccacagt actgttcacg gagcagatgt atgaccgctt gaacgaccga 180
tgggccagca cattgctagc ctttattgcc ctcgcttgct gcgcgattcc ctacgtcttc 240
tacttcaaag gcgcttccat ccgtcggtac tcgaaatttg ccttcgcgga cgacgaggag 300
cagcagggac cgggagagaa gcattag 327

<210> 3958
<211> 381
<212> DNA
<213> A.fumigatus

<400> 3958
cagctcattt ccaggtatcc cattgtctac caaaaaggaa agggatgggg ttcaggtcct 60
actggtctga tgttcattcc tttggccatt ggtgtcttgt gtagcgctgc ctgtgctcct 120
ttcgtcaaca agcactatct tacacttgtt aagaagcacg gtgggaagcc tcccgctgaa 180
gcgcgtctga tccctatgat gctttcctgc tggtttatcc ccattggtct ctttatcttc 240

gcctggacat cataccccga catccactgg attggccctt gcattggtgg cctccccgtt 300
ggatttggct tcatcttctt gtacaactcc gcgaataatt acctcggtat gttttcttca 360
atttcctcaa cgatggtata g 381

<210> 3959
<211> 276
<212> DNA
<213> A.fumigatus

<400> 3959
atatgcagtg agaataatgt tattcctatc tatataccta cttattcttt atatctactg 60
caacctctag atattagctg cttttcacca ttaaagtgtg tatataggta tttagtggaa 120
actaagatat accttaggtt taattatatt aacaagcttg actttcttaa agccttccct 180
caggcatata tagagatcta tattactagt aatatctgca gtggtttctc tgctactaga 240
ttagttctat ataatctaga gagggtactt agctag 276

<210> 3960
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3960
attatgacat tcactgcagc gtggtggtgc ttatatatgt ggtttaactg caggaagccc 60
tggatcccta gacatagtat cttaagcttt aaagacctaa ttctcttact agaatcactc 120
ctggcctttc tagatagaaa gaacctctac agcattaagc tacctagtag atctcttata 180
ttttttaagc tatttcttat acatagcttg taa 213

<210> 3961
<211> 309
<212> DNA
<213> A.fumigatus

<400> 3961
aagatgatat ttcctagtta tacagccagt agtagtagga ataaagagat tctaaagcta 60
ataaaggctt atattattac tagtctaacc atttggacta acttcaatcc tctagttgct 120
tgggagggtt ggatcttaat accacccctc tatatagacc tttcctttaa agataatata 180
aggaggaagc acctaactag aggcattaat atacttaata gaagtaacct attcccgatt 240
gcctggctat acaagaggtg ttttcctata gatattagct ctagttacta ctttagtagt 300
agctactaa 309

<210> 3962
<211> 366
<212> DNA
<213> A.fumigatus

<400> 3962
agaaccggcc ctccaccata tggcaaccgt gcaggatggc gacctcgagc agctgaggat 60
ttcggcgacg gtggcgcgtt ccccgagatc ctggttgcgc agtatcctct cgacatgggc 120
cgcaagggta ctgcgacgac atcgaacgcg ctcgcggtgc aggttgacgc ggaaggcaaa 180
gtcaagtacg acgcgatcgc ccgccggggt cacagtgaga accgcatcgt ccatgcttcc 240
tttcaaggat ctgattccgc tccggcagcg ggtggatatg ggagaaatct cgctagaccg 300
tccgtcggag gaagaggtcc aggcgcagat ggagaagacc aagaatgcgc tggcgagcct 360
ggttga 366

<210> 3963
<211> 918

<212> DNA
<213> A.fumigatus

<400> 3963
ctatcttggt ttacgatgta tagagaaccg gccctccacc atatggcaac cgtgcaggat 60
ggcgacctcg agcagctgag gatttcggcg acggtggcgc gttccccgag atcctggttg 120
cgcagtatcc tctcgacatg ggccgcaagg gtactgcgac gacatcgaac gcgctcgcgg 180
tgcaggttga cgcggaaggc aaagtcaagt acgacgcgat cgcccgccgg ggtcacagtg 240
agaaccgcat cgtccatgct tcctttcaag gatctgattc cgctccggca gcgggtggat 300
atgggagaaa tctcgctaga ccgtccgtcg gaggaagagg tccaggcgca gatggagaag 360
accaagaatg cgctggcgag cctggttgag ggtgctgtgg cggcgcagaa gccgaagaac 420
gtcaagggtg gtcggagggc agagcctacg tttgtccggt acacgcctgc caaccagatg 480
ggagatacta cgcggaagaa cgatcggatc atgaagatcg tcgagaggca gcaggatccc 540
atggagccgc ccaagttcaa gcacaagaag atcccccgcg gcccgccctc gccacccccg 600
cccattatgc attctccgcc tcgaaagctg acggcagaag accaggaggc ctggcggatt 660
ccacctcccg tatcgaattg gaaaaatccc aagggttaca cggtcccgct ggacaaacgt 720
ctcgctgcgg acggacgggg actacaggat gttactatca acgacaagtt cgctcagttt 780
gccgaggccc tatttactgc ggaccgacat gcccgtgagg aggtacggct gcgcgcacag 840
atgcaacaga agctggcgga gaaggagaac cctcagcagg aggattttca ccaaggccag 900
gccgtccgcg atacccat 918

<210> 3964
<211> 264
<212> DNA
<213> A.fumigatus

<400> 3964
tgtgacggtt cctgtcgctg cgttggtgga ccacggccag ctagtgatat caaaggacac 60
agtcaaggtc ggtatcatcc ggtgacgttg ctatggactt cattaaccgt ttgtaagttc 120
caaattctcg gcttctacga tcccgcgcct cttctgccga agaagctgaa gatctggtat 180
acgtatcgcg gaaacgagca tttcgtggaa gcaaacgatt cagagggcat tgcatgtcct 240
atgcgcaccc atctagttgg ctga 264

<210> 3965
<211> 201
<212> DNA
<213> A.fumigatus

<400> 3965
ggtggaaagt ggggaaacgg aatgcagtta agaccttgct atttaaactt tcgcattaac 60
ttttacatct ttttttcggc ccaccccgat aaatttaatt tgaaacccat ggatttacac 120
cattgttggg ccctttcaat taagcgcctc aatacttggg cttttgttga tttgacggcc 180
aggaggaaaa ttgttccacc t 201

<210> 3966
<211> 1140
<212> DNA
<213> A.fumigatus

<400> 3966
gcctgggttc taattcccag tgaaggggta caagttgagc cagaagcgac tgatttgttc 60
gaatcagcgg attcgatggc acgcccttcg ctttcgccat ccaatccccc cggattcacg 120
ccatggcccg tcactgttat cacggcggtc gtgtatcttg cactggtggt accgttactt 180
gtcgtacacc atgtcgtacc ttcggctcct agctcgagcc cgaagggact gaatctcacc 240
gaagcctggg ctgacctgca ggagctcacg cacgggttcc acccgtacaa ctctcaccgt 300
aacgatgagg tgcacgagtg gcttctgaaa cggatcctcg agcttatcga cagcgcacca 360

cccgcgagcg agtatggatc tgttggcgag gagaagccag acatcgttgt ctttgacgat 420
acgcagtcga accttacttt ctccggccgc ggctcgggcc tcggggtgta tttcgagagt 480
accaatatca tggtgtatat ccggggctgg gaagaggaca gggagcgctg gtgggaagac 540
ccacacggcc ggccggcggg caagggcggc gtcctggtga acgcacacta cgacagcgtg 600
tcgacgggat acggggccac cgacgacggg gtgggtgtgg tctcatgcct ccagctgatc 660
aagtacttca ccacgccggg gcatgtcccg cggcgcgggc tggtgctgct cttcaacaac 720
ggagaggagg atttttttgaa cggcgcgcgc gtgtacagcc agcaccccat ctcgcagctg 780
ccgcatacgt ttctgaacct cgagggagcg ggcgcgggtg ggcgggcgac gctgttccgc 840
agctcggacg cggaggtcac gaaaccgtac atgcgagccc ctcatccgtt tgggtccgtg 900
ttaagcgcga acgggttcga ggcgggcctg atcagcagcc agacggatta tgtggttttt 960
gaaggcgatc tgggcctgcg cggcctggac gtcgcgttca tggagccccg cgctcggtac 1020
catacggacg aggacgatgc gcggcatacg agcttggctt ccgtgtggca tatgctgtct 1080
gctgcggttg ccacgacgga gggactgtct tcaccacggg gctggaagga gccgcgccaa 1140

<210> 3967
<211> 546
<212> DNA
<213> A.fumigatus

<400> 3967
cgatacgcag tcgaacctta ctttctccgg ccgcggctcg ggcctcgggg tgtatttcga 60
gagtaccaat atcatggtgt atatccgggg ctgggaagag gacagggagc gctggtggga 120
agacccacac ggccggccgg cgggcaaggg cggcgtcctg gtgaacgcac actacgacag 180
cgtgtcgacg ggatacgggg ccaccgacga cggggtgggt gtggtctcat gcctccagct 240
gatcaagtac ttcaccacgc cggggcatgt cccgcggcgc gggctggtgc tgctcttcaa 300
caacggagag gaggattttt tgaacggcgc gcgcgtgtac agccagcacc ccatctcgca 360
gctgccgcat acgtttctga acctcgaggg agcgggcgcg ggtgggcggg cgacgctgtt 420
ccgcagctcg gacgcggagg tcacgaaacc gtacatgcga gcccctcatc cgtttgggtc 480
cgtgttaagc gcgaacgggt tcgaggcggg cctgatcagc agccagacgg attatgtggt 540
ttttga 546

<210> 3968
<211> 927
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (783),(816)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3968
ttcctaattc aagccgactt tgtgaccgat gcaagcaggc aagatattgt caggtcgtcc 60
gctcgcaatc taaaacttct tacagccatt gcccaggcat ttattcaggc ggtcaaacag 120
ttttgcaccc acaccagcct ggcttaccag tggatgagat atctgccgga ttttgaatgg 180
ggctctcaag accgatattg gaaagcattg cctggcgaga ttcgccgcca gctccaacta 240
actgacacga tgtggacaag gagccacctc aacatgcgtt gcattgcaga cgtgcgattg 300
ctgcccagta gcatgtgcga taagtatgga aagccattgc ttccagacct agacacggaa 360
cagtatctgt cgcctcacta tgcactcaaa gacttgaact ctttgagaga ctacggcctc 420
cagctgatga acaggcacga atttgttgac aggctgcggc aagatatcaa gagtgactct 480
tcattgatgc gaaatcccaa caccaacgaa gactggcatt ccgctgtggc gaaatatctt 540
atgggtgtgt tggggcctaa gaaccccaaa acggccgaga agataaagaa gattaagctc 600
atcccgttaa tgggagggca ttggagaagc tcttcggccc ttgatatatt tccggtatat 660
tttacccggg cgcaagggca tgctattccg actgatggga tattggactt gattgcgccc 720
agtgcagaaa tcaatccaga tcgaaaacag ctgtttgttc tgctgggcgt tcaggaggct 780
tcngtgcgcg acattcgccg ggaaatcata cttcgnagcg cgtcatgggc tcatggactt 840

gaaacttccc aatcttattt gaggtccttt atcttactgc tcaactggat cgaaagcacc 900
gacagcccag tccctattcg cttttaa 927

<210> 3969
<211> 936
<212> DNA
<213> A.fumigatus

<400> 3969
cgggtttgtc gatccacaag tcttgcgaag aacttataca caggcaccgc tcgcttcgtc 60
ttcgaactcc ttcagaatgc tgacgacaac tcatacaacg tggcgaggtc taggtccgcc 120
gacccatttg tttcttttcg cgtcgacaac cgacggataa ttgttgagtg caatgaagac 180
ggatttaccc acgagaactt ggtggctatt tgcaacgttg gaaaaagctc caagacgggt 240
gctcaggggt atatcgggga gaaggggatc gggttcaagt ctgtattcat ggtggcttgg 300
aaagttcata tccagtcgcg cgatctatcc ttctcgtttc gacataacgt gggagactcc 360
gggatgggta tgatctctcc catctgggag gaaagtgaag aagtgttacc ccgtcctctg 420
acacggatta ctttgtatct tcatgagact gggtcggccg cagacctggc tacccagcgg 480
gaaaccaccc ttcaacagtt tcgggagctg aaggctgcgt tcttgctgtt catgaagaac 540
ctacgaagaa ttgaggtcaa actctgtgac agccttgata aggagatctc acggacaacc 600
ttctcaatgc ggtgcgagga cgaaggtcga gtcgcactga agcaggagat cgtgcaggat 660
ggggacctgc aggaatgcac ccaatactac cacacgacaa aactcacggc gtcgaacata 720
ccgaggagcg agaaccgaga atatacggat gtggagctgg cgacgaaagc ctattcggaa 780
acgaacatca ttctggcatt tcccttgaca cgcgattccg tgcctatcat cgaaaaacac 840
gaagtctttg cgtttctgcc aatacgaaac atgggcctgc cagtgagtag cccgtcttgc 900
accggcatgt tttctaacct cgttcctagt tcctaa 936

<210> 3970
<211> 318
<212> DNA
<213> A.fumigatus

<400> 3970
atactctttc tcacagtcag ggcacaaggt ggaaagacgc cacaggtcac tgcgtcaccc 60
ttgtcagcaa cagatattac aagagataat atggcgtctg gaatgacgca gtcgagcact 120
agaaatcttt tagaatggct gaagaacatc tgcttggaac gtgacaacta ccagtgtatt 180
gtgacaaagc tttgggatcc tgtggctgtt aaccctcaag aacaatgcaa gatgactggc 240
aacactcagc tcgcgcatat aatcccattt tctatgggac attggggcaa tgatcagaag 300
gttagtttct gtccctag 318

<210> 3971
<211> 303
<212> DNA
<213> A.fumigatus

<400> 3971
attgttatat acttactcga ccaggacaca gataacacat ataagattaa gacataccca 60
tggcatcaga atttctgtga ccaattctac gagaagccca taaccttcac cacgcacaac 120
ggctcagaat tgcctagtaa attccttctt gaaactcatg ctgcgatcgc ggagattcta 180
catgcgtcgg ggcaggggga gaaaattgat gaactcctcc gtgagtggga ggatattgga 240
tgcctggcat ctgatggaag tacagatctc gagagccttc ttttacttct gagtgtccat 300
tag 303

<210> 3972
<211> 783
<212> DNA
<213> A.fumigatus

<400> 3972
ttgaacttgg tcaatgatac agtatccttc ctctccaagc agagcacacc ggattcttcc 60
gatgaaaccc agctcccaac catcgactcc attaagccca gaatccgcga agaaagacaa 120
gcagaatcga aggccgtctc gcaaccggat gcgcagccca cacagcacga ggccctatct 180
gcctcagaag ccgctctgaa gtcgccccaa gaacttgaag acgaagctgg ccaggaagcc 240
gccttcaacc ccgagactgg cgagatcaac tgggactgcc catgcctggg cggcatggct 300
cacggtcctt gcggcgagga gttcaaggct gcgttcagct gctttgtgta ctccacggaa 360
gaacccaagg gcatggactg cattgacaag ttcaagttcg ttcaatctga cctttctgca 420
taccattcag agtgcagtca tgtgctaaca ttacgttata ggggcatgca agagtgcttc 480
cggaggtacc ccgatgtcta cggtgccgag ctcgaagatg acgacgaggc cgacgccgca 540
gctgccaccg cagccggcgt ctcagaaccc agcgaacagc ctgcttcccc taccgtcagc 600
gcccccaccg ccgagataga tgcctcctct gactccgaag gaaaggaggg ccgcgccaaa 660
gacgttcacg cccaggtgaa gtcggaggtt gccgagaagg ccgaacaggc tgagagcgac 720
gacctcgttc ccaaggcctg gcacgacacc gaaggcacca aggcgcagca gacagagaaa 780
tga 783

<210> 3973
<211> 573
<212> DNA
<213> A.fumigatus

<400> 3973
catgcctctc gtgggctttg gcctctggaa ggtcaacaaa gagacttgcg ccgaccagat 60
ctaccatgcc atcaaggctg gttaccgtct cttcgacggc gcctgcggtc agtagcccct 120
catattctat ctccagcgaa aaggcagagc gacagagtcc tgaccatcgc agattacggc 180
aacgaggtcg aggctggcaa gggtgttgcc cgtgccattc aggaaggaat tgtgaagcgt 240
gaagagctct tcattgtgtc caagctctgg aacagcttcc acgacggtga ccgcgtcgag 300
cccatctgcc gcaagcagct ggccgactgg ggccttgact acttcgacct gttcattgtc 360
cacttcccca ttgcgctcaa gtatgtcgat cctgccgtcc ggtaccctcc cgggtggttg 420
tccgagaaca acaagctgga gttcagcaac gcctccattc aggagacctg gaccgccatg 480
gaatcgctgg tcgacaagaa gctggcccgc agcattggtg tcagcaactt cagcgctcag 540
ttgttgatgg atctgctgcg ctacgctcgt atc 573

<210> 3974
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3974
gagtctcctt atccgtcaca ggatcaaaat cgattcaaat ctgccgaatt tactgtattc 60
acaatgacta ccccatccat caagctcaac agcggttatg acatgcctct cgtgggcttt 120
ggcctctgga aggtcaacaa agagacttgc gccgaccaga tctaccatgc catcaaggct 180
ggttaccgtc tcttcgacgg cgcctgcggt cagtag 216

<210> 3975
<211> 381
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (305)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3975

gccccttta acaaaccggg ggttggcgtt caggacagta gcaatgtttt gaaccaattc 60
tttggttcct ggttcgcaac ccttggagga attcggaaat accccagagc gaatgggccc 120
ttcggattcc gttccacgac cattccaagg gaggtgggtc ccaaccaaaa cacgctattt 180
cggtaccatc accacgacca tcagacgtca gcatcccgcg agtcgcaccc acccacgggc 240
ttcgagggct tgatggaccc ggatgatctg atgaacaaga tcgtgggcag catgcccgac 300
gatcntggca tgaatggggc aggacccgat catgccagtg ccgcctacgc agataccaat 360
gcaactgagg cgggccaatg a 381

<210> 3976
<211> 531
<212> DNA
<213> A.fumigatus

<400> 3976
aggtcgaggt ttgtactgtc aaatatgcct tccagacaag aggtcgccta ctttggagct 60
ggccctgctc ccctgcccac ctcggtcgtc gaggcgggcg caaaggcctt cgtcaactac 120
aatgactgcg gtctcggact cggcgaaatt tcgcatcgct ctcctaccgc aaacaagatc 180
ctggaagata ccaaggcgag cctgacaacg ctcctcgata ttcccgatga ctacgagatc 240
ctgttcatgc agggaggtgg aagtggacag ttcacctcag tcgtacagaa ccttgttgga 300
gtctgggtag aacgccgaac aactgaaata ccagaggccc gagaatttc ggcttaccga 360
aaaataaagg atgaacttgg ttcttttgca gaatatcacc agaatggaag gttccgggaa 420
ggaaatttga atctgggaat aacattcttc ccccggggtt ccattggtcc ctttgaaaaa 480
gggagcttcc agggagggct tcacccgtcc tggcgtgggg ttgccacaaa c 531

<210> 3977
<211> 690
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (655),(684)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3977
ctgggaccta tattgatgcc atatatcaca cgtctattgt actcaatggc gtcgagtact 60
actttggcca ggggatacaa acatctgtcc ctggcagtac acatcacgga cagccaatgg 120
agaagttgct tctcgggaaa accgagctcc caatcgacgt ggtcgaagag tatatccagt 180
cgcttgcgtc aatctatacg ccagaggtat ggcgctctta ctcactctcg cattaggcat 240
aggctaaagc atccccgaca gtcgtatgac ctctttctgc acaattgcaa caatttcaca 300
caggatctgg caatgttcct ggtcggaaag agcatcccag aacacattca aaacttgcct 360
cagaagttct tgagcacccc ctttgggcag atgatgaagc cgcagattga gcaggcacta 420
cgcggtgtga cgcagactgc agcgccggct cctcagccgc ttcccagggc accagtcaca 480
actgcagcgc caacgcaccc tggcactgta cgacaggtca gcaacgtcaa ccagctcgag 540
gaactgctgg aatcagcagt caaatcgtgt gcagttatgt ttttcacctc agcgacatgt 600
ccaccgtgca agaaagtgta tcctacttac gggcaagaac cagaggagtc agatntcacc 660
gagcggcaag caagagcaag caanaaaagg 690

<210> 3978
<211> 339
<212> DNA
<213> A.fumigatus

<400> 3978
tgcacatcag acactcctaa gcaggctcaa aaccgtctca ggtccatcat ggaaggtacc 60
gagtttgccg agcgactgtc gcccattttc gctcgcataa acatactcgt gacatacttg 120

caaggtttcg acgtcaaaag gaaggtctat gtcaatcctc ttggcagtct gaacgacaag 180
tttctcagag gcagtatcct gttccaatgt gtttttgaca ctaagcgacg ggacgtcttt 240
gcagctgccg gtcggtatga ccggttggtg caagattttc cttccgaagg tccagcgagc 300
tgctttaaac acaagcagtt ggctttaaat ttgactggg 339

<210> 3979
<211> 1191
<212> DNA
<213> A.fumigatus

<400> 3979
aggaacgact gtcgggcatt ttggcccctg tggagaagac atctgtggta catgtactcg 60
ttgggtataa tattcttcga gatgtgccac cctttgccca cgggtatgga acgcgaccag 120
actctacggg cgattcgaga agaacatcat actcttccac ctaccttcca ctactcggaa 180
aaggcagtgc aggggaacat catcgaatct ctattgagtc atgacccgaa ggaacgacca 240
tctgcctcgg aacttcttca gagcggcaag attcctctcc aggttgaaga agagacgttt 300
agacgagcaa tcgtgcacct cctctctgat ccgaatgcgc ccgactacaa gaagattctt 360
tcggccatct tttcgcagtc gcccaaaaaa tatgaagata ttgcctggga tgtggactcg 420
cgtgctgctc ctgctgccaa tgagttactc gttcagagtt tagtcaaaga gcgactgacc 480
gccatattcc gccgacatgg ggcggttgag actactaggc aaatgctgtt ccctcgttcc 540
caacactaca gaagcggagc cgttcgacta cttgacgcgt cgggtaatca gcttcagctg 600
ccattcgacc tcacattgcc gaacgcacgc tctatctcta gacaggaccc gtcactagag 660
aaaacattcg cttttggcac agtctatcga gagatgcccc atggcagcga gcccagaact 720
cacaaagaag ttgactttga tattgtatcg cacaatactc ttgacctcgc gttgaaggaa 780
gcggaagtta tcaaggtcct cgacgagatc attgaagagt tcccaccgct aaggtcgtca 840
ccaatgagtt ttctcataaa tcactccgac cttctgcagc tcatcatgga gttctgccgc 900
atcacccccc ctcaggtacc cttggtcaag gaaattatca gcaagttaaa ttttggcaaa 960
tggacgatgc agaagatcag aagtgaactc cgatcgccag ccattggagt tgcctctaca 1020
tcgttggatg acttggccag atttgatttc agaggttcgt ttcactttgc cacttacgag 1080
acagcggcta atgcacatca gacactccta agcaggctca aaaccgtctc aggtccatca 1140
tggaaggtac cgagtttgcc gagcgactgt cgcccatttt cgctcgcata a 1191

<210> 3980
<211> 213
<212> DNA
<213> A.fumigatus

<400> 3980
gggcggaact atccaattcc atgccttgca ttttcttgtc tcacttccgc tggcttttgg 60
gtcactccca gtacaggtat cacctgcagg agggtcgtat tgcagcatac gattgcatgg 120
ttcgttcagc tagcaaacat caaaatcaat gggcgttggt ggaactctgt gactagcgtg 180
tctttagctg caagtgatga gaaggctggc tga 213

<210> 3981
<211> 183
<212> DNA
<213> A.fumigatus

<400> 3981
gaagataata aagggtggaa taaagtagct atctatacta attactttca taatagttat 60
atactcttaa ttagtattac taggagagaa agaaggcttc ttaaactctc tagtaactat 120
ctattaatct ttattaattc taatctggaa gcctgtctca ttaaagttat agaggtctta 180
tag 183

<210> 3982
<211> 465

<212> DNA
<213> A.fumigatus

<400> 3982
ttcgcagcgc gtttcctgct tgccccgggg tgtagacaag aagtcaagga aacgatcggc 60
gtcaccgtgc cgctatcgac tttccttgcc cgtgccaccg acctggcgaa cgaagacctc 120
ccccgttccc cccgcagcaa gccctcggca gacgagctct ttgatgagat tctcggcgct 180
gagcctatca agacatcccc gggcgattac gttcccgagc tgaatgccct ggaggcagtt 240
gagtatgagt ccgctcagcc cgtcaaggaa gacatcatcg acattctcag cggcaaggtt 300
ccaaagaagg cgccccgtaa ggcatccatg gaggaatacc ccgccggctc tgctacgaat 360
gtgtttagtt tgaccgttcc tgttggtgat gagacgaggg ctagggtttt cttggaccgg 420
gtgaagaccc tgttgactgt ggagcctgga aggcttgtcc tatag 465

<210> 3983
<211> 1251
<212> DNA
<213> A.fumigatus

<400> 3983
ttcgcaaatc gcggatcgtt ccatggcggc tttgtgaaaa cggctgatca gatcggggac 60
cttgagtccc gatgcgcggc actccagtca gaactagact ctgcaacgcc tacttcacta 120
ttgcgaaaga atcaggaccc tacatcgtgg ttacctcgat ctcctgcccg ccatatactc 180
gagggccacc gaaaccctgt cacatgtgtt gcgttccacc cagtgttttc ttccctcgca 240
tccggctcag acgatacaac gatcaagatc tgggattggg agctcgggga actagaacgg 300
actgtcaagg ggcacaccaa ggcggtgcta gacgtcgatt atggtggacc ccgtggcgga 360
acacttctgg cgtcctgttc atccgatcta acaatcaagt tgtgggatcc atctgataac 420
tacaagaata taagaacctt gccaggtcat gatcacagtg tctcctcagt gagattcatc 480
ccatctggcg cggcaggctc ccctatgtcg gggaatctat tggtttccgc atcacgcgat 540
aagactttgc ggatatggga tgtaacgacc ggatattgtg tgaagacatt gtcaggacat 600
gtggactggg tacgagccgt tgcgccatct atcgacggaa ggttcctctt ggctgcgggc 660
gatgaccgga ttcctcgctt gtgggatcta tcatctgcgg aaaccaaatc gacattcctc 720
gggcacgaac atgttattga atgtgttgct attgctcctg ctgccagcta tccacatctt 780
gcggttcttt ccggcttgaa gaaaccgccg ccggcttcct cgtcagctga atttttcgcc 840
actgggtctc gggacaaaac tatccggcta tgggattccc gaggcaatct tatcaaaacg 900
cttgtgggcc atgacaactg ggtacgtgcg ctcgcttttc atccaggcgg taaacatctt 960
ctgtcggttg cagacgacaa gactatccgc tgctgggatt tgacccagga atgcaaatgc 1020
gtcagggtca tctctgatgc tcacggacat tttgtcacat gcctccgatg ggcgccacca 1080
ttaatcaaag atgggggagc caatggagaa gctgagacca atggcacacc ggcggccacc 1140
tcgacaacaa atggagtcag accagatccc aacgtggcca ccaagatctc gatcagatgt 1200
gtcattgcca ccggcagtgt tgaccagaaa gtgcgaattt tcgcgacctg a 1251

<210> 3984
<211> 426
<212> DNA
<213> A.fumigatus

<400> 3984
ttgcacaatt ttctcagctg catcagcatg ttgctcaaac cacgcatgcc agtcttgcct 60
cctttgccgt cactgacaac catcttattg tgcgtgacaa gctgtttata cagcctcgct 120
tgcagagcag aaaagcgaca tttgatgaca cgctcttgct tatcaggcag atccttctcg 180
acatctttct tcagacgtct aagcaggaag ggccgaagaa ccttgtgcaa acgacgaatg 240
accagcagct gttcttcttc ggagagttcc atgcggtcct ggcctccagt atttgcaaat 300
ggcgtgttga accactcatc gaacgacttg accgacttga agatgtttgg caagacgaag 360
ttaagtagcg cccacaactc gggcagatta ttttgcaagg gggtaccagt caaaatcaga 420
cgataa 426

<210> 3985
<211> 1500
<212> DNA
<213> A.fumigatus

<400> 3985
tttcgctcta caacaaacaa cctgaatggt attttggcag acgagatggg tcttggaaag 60
actattcaaa ccatcagttt gatcacatac attattgaga agaagaagaa caacggcccc 120
ttcttggtta tcgtgcctct cagtactctg acaaactgga atctggagtt cgaaaagtgg 180
gcgccaagtg tctccagggt tgtctacaag ggacccccaa atgcgcgcaa acagcagcag 240
cagcaaatcc gctggggtaa cttccaagtc ctgttgacca catatgagta catcatcaag 300
gaccgcccga tcttgagcaa gatcaagtgg acacacatga ttgttgacga aggtcaccgt 360
atgaagaaca cacagtctaa gctgagtagc accttgtctc agtactatac gagccgttat 420
cgtctgattt tgactggtac ccccttgcaa aataatctgc ccgagttgtg ggcgctactt 480
aacttcgtct tgccaaacat cttcaagtcg gtcaagtcgt tcgatgagtg gttcaacacg 540
ccatttgcaa atactggagg ccaggaccgc atggaactct ccgaagaaga acagctgctg 600
gtcattcgtc gtttgcacaa ggttcttcgg cccttcctgc ttagacgtct gaagaaagat 660
gtcgagaagg atctgcctga taagcaagag cgtgtcatca aatgtcgctt ttctgctctg 720
caagcgaggc tgtataaaca gcttgtcacg cacaataaga tggttgtcag tgacggcaaa 780
ggaggcaaga ctggcatgcg tggtttgagc aacatgctga tgcagctgag aaaattgtgc 840
aatcatccat tcgttttcga gcccgttgag gatcaaatga atccgggacg tgggaccaac 900
gatctgattt ggcgaaccgc aggcaaattt gaacttttgg ataggattct cccgaagttc 960
agggccacgg gtcaccgcgt gttaatgttc ttccagatga ctcagatcat gaacattatg 1020
gaggatttcc ttcgccttcg gggtatgaaa taccttcgtc ttgatggttc aaccaagtcc 1080
gatgatcgtt cggacctgtt gaagctgttc aatgcgccgg gctccgagta tttctgtttc 1140
ttgctttcga cgcgtgccgg tggtcttggt ctcaacctgc agactgcaga cactgtcatc 1200
atcttcgatt cggactggaa tcctcaccaa gatttgcaag ctcaggatcg tgctcaccgt 1260
atcggccaga agaacgaggt ccgcatcctg cgtctgatca gctcaaattc agttgaagag 1320
aaaatccttg agcgtgcgca gttcaagttg gacatggatg gcaaggtcat ccaggccgga 1380
aagttcgaca acaagtccac aaacgaagag cgcgatgctc tcctccgaac gcttctcgaa 1440
agtgcggagg ctgctgacca gcttggtgaa caagacgaaa tggccgacga cgaccgtcta 1500

<210> 3986
<211> 900
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (673)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3986
gttcgcagcg cggttcctgc cagcctcgtg gcgaagacac ccagcggtga tgactcgctg 60
aagcttaagg cactgatcga gtacaagatg cttcatcttc tgcccaagca gaggcttttc 120
cgaaaacaga ttcagaatga aatgtttcac tttgataatc tcggcatgac tgccaatcga 180
tctagccacc gtcgcatgaa gaagcagtct cttcgtgaag cccgaatcac tgagaagttg 240
gagaagcagc aacgcgatgc ccgcgaaact cgggagaaga agaagcaata cgatcaacta 300
caagccattt tgaatcatgg tgctgaattg cagaacgccg ctaaccagca gcgcacgcgt 360
atgcagaagc ttggtcgtat gatgcttcag caccaccagc atatggagcg tgaggagcag 420
aaacgtgtcg aacgaactgc caaacaacgt cttcaggctc ttaaggccaa cgatgaagag 480
acttacatga agcttttggg acaggccaaa gattcgcgta tctctcacct cctcaaacag 540
accgatggct ttctcaaaca acttgctgct tcagtcaagg agcagcaacg cagccaagct 600
gaacggtatg gggaagatga gcatctcttc gaagatgatg atgaagaaga tgtcggatcc 660
gatgacgacg aanaaggcgg gcgacggaag attgattact atgctgttgc tcaccgtatc 720
aaggaagagg ttaccgaaca gcctaagatt cttgttgggg ggtacctgaa ggagtaccag 780

atgaagggtc tgcagtggat gatttcgctc tacaacaaac aacctgaatg gtattttggc 840
agacgagatg ggtcttggaa agactattca aaccatcagt ttgatcacat acattattga 900

<210> 3987
<211> 237
<212> DNA
<213> A.fumigatus

<400> 3987
atcctcgtcc atctcccgtc tttcttcttt ctcttccctc tcgcggacat gaattccttc 60
cacaagcatg tctccttcga tgcctacctc ctccccctgc tcatcttcgt tgcgcgtcgc 120
tccctgagcc ttggctgctc gttgcgcatt ctccatgcgc tgtcgaacca gtctcgcaat 180
tgcatttttcc gtcctcacat taagaatttt cattttctca tcaaggtcac gctttag 237

<210> 3988
<211> 687
<212> DNA
<213> A.fumigatus

<400> 3988
tcgaagccaa cggtacttct cggagccctg gaattctact ttccatcgcc tttcttctac 60
ttcttttcct ctaacacaat gtcgctgaat cacacctctc ttgatgcggc ggcaacagaa 120
cgcaaagccc gtcttgcgaa gcttgcagct ctaaagagaa agcaaccgga accggagaca 180
ctcacagagg cgcgtgctgg agaccatgag cctgaggatg ccgctccgga tgtcacaaga 240
aaatacctgt ccggacgtaa tttcgatgca gaaactcgag gccccaaact ggggttcgat 300
caagcgccaa cagaaggagc gaagacgctc gaagcgcaag ctgctgagat agcgaaggct 360
acggcggagc aggcgaagaa ggatgaggag aaggaccaac cgatcgacct gttcaagttg 420
cagccaaaga agcctaattg ggacctaaag cgtgaccttg atgagaaaat gaaaattctt 480
aatgtgagga cggaaaatgc aattgcgaga ctggttcgac agcgcatgga gaatgcgcaa 540
cgagcagcca aggctcaggg agcgacgcgc aacgaagatg agcaggggga ggaggtaggc 600
atcgaaggag acatgcttgt ggaaggaatt catgtccgcg agagggaaga gaaagaagaa 660
agacgggaga tggacgagga ttcatga 687

<210> 3989
<211> 399
<212> DNA
<213> A.fumigatus

<400> 3989
gaatcatcca tcatcactaa taccgaacca gtccagattt cgacacttga gcccctcttt 60
cttcctttcg ccatttattt cttcgttctc tttcttccac ccccccgatc aattcctgat 120
tttgagttgg ctgaatacct ccccttccgc ccccttttct tcgatagact ctttttttc 180
ccccgtgtcc tcacaatcaa ccgtcaaact gttctccttc gcctttcgtc ggatttcctc 240
ttctctgcga tcctctcttg gcctgactgc cgctgctgcg tcctcactac atcaaaagtc 300
ctccccccct acctcggttc tatcacatcc gctatcgacg ccgtcgcgcg tcaattcaac 360
ctctgcttcc agaatggtgc acacaaaagt tgtcagtaa 399

<210> 3990
<211> 360
<212> DNA
<213> A.fumigatus

<400> 3990
gtatctaccc ctcctgcaac accaaaaacc attgattgtc tgctttgttg gttgtacgtg 60
ttactgacgt ggtatccttt caaaatagtt atcggctccg gccccgctgc ccacaccgca 120
gctatctatc tgtcgagagc ggaactcaaa cctgttctct atgagggtat gctggccaat 180

ggaacggccg ctggcggcca gctcaccact acgaccgaca tcgagaactt ccccgggttc 240
cccgatggca ttggtggcgc ggagctcatg gagaacatgc gcaagcagtc catccggttc 300
ggcacagagg tgatcactga gactagtctt caaccacagg gggtcgaagg accagcgata 360

<210> 3991
<211> 387
<212> DNA
<213> A.fumigatus

<400> 3991
ttggtgcctt gcataaagat cgcaatgtcc agtgtctctc ctttagcagg acgtctctgt 60
cagatcttca cagcccgtaa ttacactctt ttctcggtgg ggatattatc tgttgggctc 120
tttgttactg ccgcttccca aagcctgccg gtcttcctat ttggacgtgc actatctggt 180
tgtggcagtg cgggtgttat ggtcacatcg ttcattttca tccttgacct tgcaagcaag 240
aggagaagag gtctcttcat tggcttgttg aatgtcggag tgacgacggg tatctcttgc 300
ggtgcgctac ttgccggatt gctgacgcca gtctttggat gggtatgtca tcttccactc 360
agatcatcgg aaacgatacg gagctga 387

<210> 3992
<211> 489
<212> DNA
<213> A.fumigatus

<400> 3992
agattcggcg gtgagaagat caccgatatg ctcatcgcca ttctcaatac ctgctccaag 60
gaggagctcg aagacgagac tcctacctcc gtgtcacctt ctgctccgtc tcctccgctc 120
ccaatggacg tggagagcag cgaattcaaa agacgggcga tcaagaacaa gattcttgcc 180
atcggacgtc tctcgcgtgt cttccaggtg ttgcgggagg agtctgagag agttacggaa 240
ctcaagacag ctgctggtgg ccgtctccca gctggtaccc tgatgcttgg cgccgaagga 300
atcaaacagg ctattaccaa ctttgaggac gctcgcaagg ttgacttgca gaacgagcgt 360
cttccaccgt ctcacgagga ggtcatcaag agaagcgaag aggaaagacg ggctgccctc 420
gagcgtgcgc aacaggaggc agacaatgat accggcttgg ctaccgtcgc ccggagaatt 480
agcatgtaa 489

<210> 3993
<211> 273
<212> DNA
<213> A.fumigatus

<400> 3993
ggaccggacg ttagatcgtc cacttcatcc acactgattg aacacgcaag cgctctgttc 60
tcgaatttta accagcgttt atctgctctt tacttctatc atgccatgta cggccctata 120
gaacagtctt ctctcgagtc gggtaggtcg cagctagggt atctcccgaa ccttttcagg 180
cccgcacaca gccatcgact agagcagtca cctctcctca accccgcaag atttcgacac 240
aaagtactct attctttctt ctttgaggct taa 273

<210> 3994
<211> 1041
<212> DNA
<213> A.fumigatus

<400> 3994
tcaaggttat tcctcccaag gaatggtagg aatttttcgg acccttctgt tgtttcaaag 60
ttggttctga tcgtttctca acctaggctt gatgctcaac cgcccttgga cgaagccgtc 120
aagaaaatcc gcgtgaagaa tccgatcatg caggaattcc acggctctca cggcacttat 180
actcaggcaa acatcgaacg acaacggacg tacaatcttc ctcaatggaa agccctgtgc 240

gaggagagca gtcatcagcc gcctgctcgg cgaggcgaga gacgtcggaa tcaagaacga 300
gtcacacgta cccctgcggc tcccaagcct cagaccacca cgtcaaattc gcaaaagcgt 360
ggacctggtc ggccaccaaa gcgagccaac caggtgaaag tgaaggaaga gccgcctgcg 420
gacgatgttc tcgagaaaac gaaaccggaa ggtcctccaa cgcccgtatc acccgagtct 480
aaccctgttg agacgaagtc ggaggaactg agcgatggcg agtcattacc gggacttaag 540
cccaagggta gacagcccaa gtccgtaact gcgcgaagaa agcacaacaa gggcgacaac 600
atcgattccg tcgatgaaga agcattcaaa aacttcgact accgcatcca cgatcaggaa 660
gaatatacgc aagaacgttg tgaggagctc gagactgcct attggaaatc gctcatgttc 720
aacaacccgt tatacggagc ggatatgccc ggttctctgt tcgacgacag cactacgtcg 780
tggaacgtcg ccaagttacc caacttgctg gatgtcattg gacaaaaggt tccgggcgtc 840
aacactgcct acctttatct gggaatgtgg aaggctactt tcgcatggca tctggaagac 900
gtggatctct acagcatcaa ctacattcat tttggtgcac cgaaacaatg gtacagtatc 960
tcgcaagagg acgctcctcg cttcgaacag gttatgaaga gtaagttggc accgctccag 1020
ccatattctg cgctgtggtg a 1041

<210> 3995
<211> 510
<212> DNA
<213> A.fumigatus

<400> 3995
agagtaagtt ggcaccgctc cagccatatt ctgcgctgtg gtgatactga cacgttctcc 60
tcaggcatct ggcccagcga tgcaaaatcc tgcgaccagt ttcttcgcca caagacctac 120
ctcgtctcgc caagtatctt gaagtcccag tacggtatta ctgtgaataa gttggttcat 180
tacgagggcg aattcgtcat cacctatccg tacggctacc actctggctt caatctgggg 240
tacaactgtg ctgagtctgt caatttcgcg acggagaaat ggctcgacta tggtcgagtg 300
gccaagaaat gcaactgtga agcggacagt gtctggattg acgtcgacga aatcgaacgg 360
aagctgcgcg gggaggcgac acccgaatac tacgatgact tcgacagcga tatggacgtg 420
attgaaggtg cttcggatct cttgactccg ccccgcagtg tgcctgagaa aaagtccacc 480
cgcggtcggg aaacgccagc atcctggtga 510

<210> 3996
<211> 255
<212> DNA
<213> A.fumigatus

<400> 3996
gacaacaaac tcaccatgag cgtccaactt cccccagtca cacaccgcaa gcgcgccttc 60
ccccagggcg aactcgaagc cgcctcaacc ctcaaactcg gagccgatca aaacacacat 120
accctctcgc tgtcggaggc acggctcgtc atcaataagg tgctggagaa taagcgccgc 180
gggggggaaga aatacgaaga accggagtac gtcgccctgc gttgggttgc ccgtcaccca 240
atctttccac tgtga 255

<210> 3997
<211> 216
<212> DNA
<213> A.fumigatus

<400> 3997
gccatgggtc attattatca actcattaat ggaattgtgt ttgtcctctc tggcccgggg 60
ttcgcccacg agactaacat tgccaattct ctgggacagc tactcatgca cgcagcgatg 120
tacatccaat caaccacccc tgctcactac gttcttcact tcatgattga ttatcgccaa 180
ctaacaaacc cctctatcag cacaatcaga ctttaa 216

<210> 3998
<211> 690

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (173),(589),(661),(667)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3998
tcgaaggctc ggtgtggtac ctctaacagc actgtgcctt tgaacaatat tcccagccgg 60
agcgccctta ttccatggcg taaactagcg cgcggttatc gccaagtcca gcctccagtt 120
gccccggttg aagattgtgg ctggcagtca tgtcttggtg gactcggatc atntgagtcc 180
aaaccctccg gcaatgacga tagtcaacct tcgcttgggt ggaaggcgac cctgctcaat 240
gcaactttgc atcttcctcc cccgacaatt gtgaatgcct tgttcttgcg ccggatgtca 300
ccaaccatgc agctgtcatt ggcagtctgc tcgacccggg gagcccctct atcaaactcc 360
gcgccgcaag cttctctcct gggtcaactc tcccacgaca cgggcaagta tagcaatgaa 420
tacctgttca gcactgacaa ttctttattc ggctggcggg ggctgtggaa cttcggcccc 480
gacccgcgcc atcccaagga gaactcatca ccacagttat cactactatc agccggcgca 540
gaagcatatt actcccccgt ctcttcgctc atcggcatgt caactgggnt acggttcagc 600
accctaccag cagccaccga gatgccttca tcatcatcat ccgcatcgag cacaaccata 660
ntgtccnaca gcgctgaaaa gccagagtag 690

<210> 3999
<211> 321
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (139)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3999
tttgagacat cattgacaat gcttgacttc atggactaca tccaactggc attcgccgag 60
gcgaccaact ggaaccgcga caactcatat tcgtccctga cagccacggc gcaatgtatg 120
tggattacct catatttana ctctgataat catagtctca atttgactgc atacagcatt 180
actcgacttc tcgacaccgg agcgcctacg cgtgcatctt tcctccctag ccactcctca 240
tttcgcgaac agttaaaccc ctcggcacat tggattgatc gaaggctcgg tgtggtacct 300
ctaacagcac tgtgcctttg a 321

<210> 4000
<211> 405
<212> DNA
<213> A.fumigatus

<400> 4000
aagatgtgcg caccgaattc gctgatagtc ggtaagtcac cccggagata tgcacttcta 60
caatgtgcaa tacagctgcg gaaacatcat cgcgagcttc aatcgctgat atttaatagt 120
cttttctttg gcaaaactaa agtaatggct gttgccctcg gccacaaccc cgagaacgag 180
gccgcgccca acctgcataa gctctctccc tacctgacag gtgccgtcgg tcttctcttc 240
acctctcgcg atcccgagtc cgtcctcagc tacttcgacg ccttccgccc cctcgacttc 300
gcccgtgccg gcacagtcag cacccgctcc ttcagcatcc ccaatggcct ggtttactcc 360
cgtggcggtg agattcctgc gtccgaagac gaacccgtca gccgt 405

<210> 4001
<211> 207

<212> DNA
<213> A.fumigatus

<400> 4001
tatcttaaaa tgcctcgttc aaagcgcgcc aggatcgttc acgagtcgaa ggtcaccaag 60
aaatcccaca aggaacagac cagaagactt tatgccaata tccgcgaatg tgtcgagaaa 120
tatgatcacc tatttgtttt ctctgtcgac aacatgcgta acacctattt gaaagatgtg 180
cgcaccgaat tcgctgatag tcggtaa 207

<210> 4002
<211> 228
<212> DNA
<213> A.fumigatus

<400> 4002
tatctgatta ctgatgaaat agaattgggc cgtggcagga tcaattcaac attggactcc 60
actatcaatc cccactcgtg gactgaagtt tcgaatgtgc tgttcctgtc tcagcctctg 120
ggtgtcggta tgcatcagac cacgggcgct cttcaatttt ccagactctc gactcacaat 180
actgcaatgc aggattttcc tacagcgagg cagaacccgg ctcgctga 228

<210> 4003
<211> 600
<212> DNA
<213> A.fumigatus

<400> 4003
gtctcactga acgcgggcaa tgtggccgat atgggcaaga ctgactctta tcaggtaact 60
ggtatcgcat gggctcaggg gcaattcatg ggcctgtcca ctccaatggt acctccgttc 120
ccgatttctg attacggcac aggctgcatg ggcgccattg ccgccctcac aggtctctac 180
caccgtgcga agaccggcgg atcctaccac ggaatggcct ctctgatgca ttatgacctc 240
ttgctctttg ccgtgggcaa atatccagat gctgtgcagg agaagatgcg ggctgctcaa 300
cccccggaat ttttcaagct tcggcactgc gacagtgtgg accgcatctc ctcgactgtc 360
ctaaagatca tgcaggcgcg gtttccacat ctctatgtag cccccgacgt ggctggacag 420
gaggcgctca cagaaaaatg gttctccaag gcgtacaatg ccgacattga ggttgtcaaa 480
cctatcgtgg agattgacgg cgtggacaac agcttctcgc gcgccagccg accgaacggc 540
tccgatcgac ctagctggga ggacttcaag ctgcccgaag aggattacaa gaaggcttaa 600

<210> 4004
<211> 291
<212> DNA
<213> A.fumigatus

<400> 4004
ataaatcatt cagatagcct ctcacaaacc aatagacaac ccagttcaac tcgtcgcacc 60
ctatccgagc ccagcataat caaaatgtcc tacaaaatca ccacagaccc aaccctctcc 120
ccaccattcg caaacgccat gatctccttc atggaatcct tctaccaaat cagcgacgat 180
gaatcccagc acgagcaata cgttgccagc ttcacgtccg acgcaacact aatcatgggg 240
cctaaggtcc caaacggagc ggacggtagc ctgccctctc acaaagacta a 291

<210> 4005
<211> 606
<212> DNA
<213> A.fumigatus

<400> 4005
accaccagga gcaccatgga gattgaccag gtcaaaccag agcgccatga catcgctccc 60

gatggtgatc tcattctgct ttacaagaag catgcaaacc gacctgtcga gttgcgagtc 120
tcaacaacca tcttgaaatc ccaatcgatc tacttcgaag ccttgagtgg gaggtggctt 180
gagacccttc ctgtccggcc ggacggactg cgtgagatgg ccttcgagag attcgatccg 240
gatgccatgc tgatcatcat gaaggctgcg cacttgaagt tccaagggat cccggatgag 300
ctgaatgtga agctgcttca caaaattgcc aagtatgtgc acatgttcga catgttccca 360
gccgtttgta ctctggctcg cccctggatc cagtacgtaa ggatgttcgt tgaccaatgt 420
aacagtacag agcttgcggg ttaccttctg ggaatcatgt gggtgttcaa cctcaaagag 480
caattcaaga aggcaactcg gtctatagtc gtcgattgca atgcggtgga tattgatttg 540
tctcgaacac tcattgacca gagcagtctt caccacgggg ctggaaggat ccgcggtggc 600
gttata 606

<210> 4006
<211> 399
<212> DNA
<213> A.fumigatus

<400> 4006
actctccgtg tatcagagac attctgtctt cgtctctggc aatcggacac tcaaccactc 60
taccgtactg gcccatacgc cgccctcaat ttgaatttgg actttgctcg gaagactcgg 120
aattgcctac ttgaacttct cctgcagcag cgcaaatgga tcgcgaccaa tttagggccg 180
ctgcgcatgc ggcgatcgat gaaagtgtgt agcctgcatt atgatgtcaa ttctgtgcta 240
aaaattgctt tcatagtcat cgactacttc gacggtctcc cctcccagcg tgttgttccg 300
accattgaac caggttatct tcgccccttg attcccgaaa atcctccgga agaaccagag 360
caatgtctca ggtattcgcg gcgcgtggaa gatccatgt 399

<210> 4007
<211> 219
<212> DNA
<213> A.fumigatus

<400> 4007
ttagttgggc cgaattacca ccccatcggg acggcgagta tgatggctcg ggaactaggg 60
ggcgtcgtcg actcaaggct caaggtttac ggcacggaga atgtcagagt tgtagatgcg 120
tcggtgattc cgctgcaggt gagcggacat ctcacggcga cgttgtatgc ggtggctgag 180
agagcggcgg atattatatt ggatgggaga gaagattga 219

<210> 4008
<211> 762
<212> DNA
<213> A.fumigatus

<400> 4008
gcatactatc gcggtatcct gccagctccc gaggtgaaga cgtctgggtc caagtacccc 60
tctccgattc tatcgctgcg ggtgatcacg tctggtgtcg cgcgggaaga caagcacatc 120
gcggtgggca tgcagtcggg cctgttatcg atcaagaccc ggctgtcggg ccagcagaag 180
atccgggagc gggaacgacg caaggagatg caggcattgc ttgaaggcaa gctggaagag 240
cacgaccgga aggtggccaa gcagaaaaaa ctgcgcgggt caggctggga gaagcggctg 300
cgcgggcggg atttcatcgg cgaaggcgtg gagatcgtga tcgagggcca ggacaagaag 360
aagcgcaaga aggagcagac gtgggagtac gacctgcgca aggcgcggta ctcggcggcg 420
ctggaccagg tgctggcgtc gagcgacaag acggcgcagc tgacgctgtt cacggcgctg 480
cggcaccgct ccgcgctgcg ggccgcgctg cagggccgcg acgaggagac gctgcagccg 540
gtgctgcagt gggtgcacag gaacatcacg gagccgcggc tggtgacgct gtgcgtggag 600
gtcgccatga acgtgttgga catctactcg ggcaatctgg gacagtcggc gcagatcgac 660
aagatggtgg agcgcctgca tcggcgggtg cgcgaggagg tggaaatggc gcatcaggcg 720
tgtcagacca aggggatgct ggatatgttg caggccgtat ag 762

<210> 4009
<211> 837
<212> DNA
<213> A.fumigatus

<400> 4009
aggcaagctg gaagagcacg accggaaggt ggccaagcag aaaaaactgc gcgggtcagg 60
ctgggagaag cggctgcgcg ggcgggattt catcggcgaa ggcgtggaga tcgtgatcga 120
gggccaggac aagaagaagc gcaagaagga gcagacgtgg gagtacgacc tgcgcaaggc 180
gcggtactcg gcggcgctgg accaggtgct ggcgtcgagc gacaagacgg cgcagctgac 240
gctgttcacg gcgctgcggc accgctccgc gctgcgggcc gcgctgcagg gccgcgacga 300
ggagacgctg cagccggtgc tgcagtgggt gcacaggaac atcacggagc cgcggctggt 360
gacgctgtgc gtggaggtcg ccatgaacgt gttggacatc tactcgggca atctgggaca 420
gtcggcgcag atcgacaaga tggtggagcg cctgcatcgg cgggtgcgcg aggaggtgga 480
aatggcgcat caggcgtgtc agaccaaggg gatgctggat atgttgcagg ccgtatagca 540
cgcacgcgcg cgagagtaca gcgagcaata gcaagcattt tacgcagagg tcaaaaagtg 600
tttatctact tagacttgtt acattacgga tacctggaag gagttaggga attcatcgtt 660
cattattttt ttttttttt ttttttttt ttttttgtct ttcttcaatc ttctctccca 720
tccaatataa tatccgccgc tctctcagcc accgcataca acgtcgccgt gagatgtccg 780
ctcacctgca gcggaatcac cgacgcatct acaactctga cattctccgt gccgtaa 837

<210> 4010
<211> 1314
<212> DNA
<213> A.fumigatus

<400> 4010
tttcaaaaaa tgcagaaatt ttacctatcc acgtacgcga agcccagcct gggtggactc 60
gcaaccggga gtatcactca tggctacggc caatggatgc ctgagaacat caggcttcgc 120
cgagcctggc tatctcacct tctggacaag gcgaagccag aaattccccg gaagttgaga 180
gatggccagg agaaccctgt cgaggcattg aggaacctaa ttgagaacaa ctccactctc 240
tatatgcttg cccattccat gttcgacgag gtccctgaaa aggctccata cgacagggac 300
ccaaccacgc tcaagaaaca agtccgaaac tacaaaacca tgttatatct cttcaatacc 360
ctgttgactg aagtgcccga gtactttctg gtaaacgacc ccgacgtacc cagcggtctt 420
attgggttcc cattcaatgt catcgttgac tggccgatgg gcacgcagag tggtcgtcaa 480
ttcttccttg atcccagagt gaatgggtgt ctgaaagcca tcttgaataa atggaatgat 540
ttcctcagcg accccacggg agggaccggg caggagggtg gtggcaatca agcactaatt 600
gatgctggtt ggagttcaga cattgcggtc caacagttgg agaagaaggc aaatgacgct 660
acccccggta gtaagaggaa gtttacagaa ctgttcatac accccgaggg tggtacgcag 720
gaaaatttt tcaaatacgc ctgttgggac gatttcttta cccgcaagtt taggcccggc 780
gttcgtcctg taggagacgg ggcggttgtc aatgcttgtg aatcattccc tctttcgttc 840
gacaccgacg tctcaggccg cacgaccttc tggcttaagg gtatgccata ttcgctacac 900
gatatgctag gagccacgca ggatgataga gtcagccagt atgttgacaa atttgtcggc 960
gggactgtgt atcaggcctt cctgagtgcg gactcctacc actgctggaa tgctcctgtc 1020
agcggtacgg ttgtatacca gtctcgcatc gatggaacat actttgccga aacgcctgct 1080
tcgggattcg gaggctcgag tggacctgat ccagctggcc cagacatgtc acaacgttat 1140
atcacccatg tagcagcacg gggtgttctt attgtcaaca caaatgtccc caatggctca 1200
caggttgggt ttgtgggctt cataccggtt ggaatgtctg aggtatccac ctgccggtgg 1260
gaggataaaa ttgtcgaagg gtgcactatt acaaagggag aagacattgg ggca 1314

<210> 4011
<211> 252
<212> DNA
<213> A.fumigatus

<400> 4011

tgcttgattg ccaccaccct cctgcccggt ccctcccgtg gggtcgctga ggaaatcatt 60
ccatttattc aagatggctt tcagacaccc attcactctg ggatcaagga agaattgacg 120
accactctgc gtgcccatcg gccagtcaac gatgacattg aatgggaacc caataagacc 180
gctgggtacg tcggggtcgt ttaccagaaa gtactcgggc acttcagtca acagggtatt 240
gaagagatat aa 252

<210> 4012
<211> 552
<212> DNA
<213> A.fumigatus

<400> 4012
gcccgcaaca agtcgggaag acttcaagct ttcattactg agtatgatcc tttcctgatg 60
ccgaacctca tgacatacat ttatactcga gggcaaaacg gaaaggtgaa cggttttgca 120
gccttgcgat ggatcggtga gaagaatgga tatcacgttg atccgtgtat cgctgccccg 180
agagcgccga aggggattag cgatctgtta atattcgcct cgatggcttg gctgaggcag 240
attggcatct cactcctgag ctttggctat gaaccctccg actcgttggc agaggtgtcg 300
ggaatgccta gtcctctcgc acatttaacc cgccaaatct atcgatatac attccaacgg 360
ctcccaatcg gcgggaagaa ggcgtatttt gacaagttca agccggatga ggagcaggat 420
tcacccctct atcttatatt tccgtcgacg atcccagaac cacggccgat catcgctatg 480
gcccatgttg ctaacatcag tatccgcaaa ctgtggtttc atcaccgttc caagcctgcg 540
gtcccgcaat ga 552

<210> 4013
<211> 321
<212> DNA
<213> A.fumigatus

<400> 4013
gtccaaagcc agaccatcat ggcatgcaca actacctttc tcgatctccc ggcagagatt 60
cacctcctga tctgcgagta ccttgaccct gcctcggcag tggctttgaa aagcgcaagt 120
aagtacctcc ggtccatcat caccgttgac atggacgagc ttgagcttga atactgggaa 180
gtgttctaca tcaccctcga aatgtggcca gagcgagtgc ccctaaacca caatgaatgt 240
ttgagtgaca tagatggtat gatccttaca cttacatacc tgcagatacg gcaatcactt 300
cttctgcact ggatgctgta a 321

<210> 4014
<211> 222
<212> DNA
<213> A.fumigatus

<400> 4014
atcgccagaa ccagaatagt gatgggaacc catgacaatc gtttctggac tattccctgg 60
tgggttggac attttatata ctccggcgag tgcggcaaca aggtggtccg cgacgtctgg 120
tactgtaatg gcgtgggttc cgagggttcc gagggttctg gatacggcga tttggtcgca 180
aggtcgccgt cgtcggcatc atcaggcccc gggcgcttgt ag 222

<210> 4015
<211> 783
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (659)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4015
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ctgcggatgg gccccctcga gcctcgggtc ctggtcggaa acgtgtccac cgaattcgcc 120
aacccggcct acctcatcac ccattgctcg acccccgtca cgctggccat ggacccggag 180
gcggccggga gcacctgctt ggacctggaa ctggtcggac aggcgtacca caactaccag 240
gcgtacatct ctgcctggag cgacctggcc aagacgaaca acgggacgac gtcaaccctc 300
gcagcgcggc cgcccccgac cggctcgctg tacgataaca ccaccgtgac agggagctgg 360
attgacattg gcaatatgac tgaattgtcg ctccggtacg gccgaatggt caacaacgtc 420
accgccgcaa tgcctcatgc cggagtgatc gccgccgcgg ccgacccgcg caatggtatc 480
cgccagccgg ccgatgtgac cggcgaaggc aacttcgaga tcgaggcctc ggtgccttcg 540
ccggccgtca acgtcctctg tgtcgggatg acggaagaag agctcacccc cttggtatac 600
gagaggttgg ccgaccggca caacttcaat ccgctgaact gggattacga agggacccna 660
ttcgtccccg tcgaacggtt ccatcgaaca gtcgtcgatg aactcttcgg gtgggatccc 720
accggccaac gccgaagtcc agcaaaaccc cgcccggtgt ttgggaaatt ggcccctccg 780
cca 783

<210> 4016
<211> 975
<212> DNA
<213> A.fumigatus

<400> 4016
aatccattaa cagtcggggt ccatccgttg ccatcttttc ctgtcggttt agataaattt 60
agaaccgccg tcagggcgtc ggaatcgcag cagtcgaaac aatatcttct gcctccggtg 120
tccgagttgc ttcgtcgaga tgacaccact aacaaaaaca ataatcataa tgataatgaa 180
gaccactctt tccttcccaa atcgtggaat ccctttgacc gcagtccttc acccgaccgc 240
gactatatcc gctatcagcc cgcctcttcg acaaacgatg atcccgcttc tccgccggca 300
ccccgcgagc ccgcgcttgg cttaggcatc accaatacct tccctcaatc tccctacaag 360
cgcccggggc ctgatgatgc cgacgacggc gaccttgcga ccaaatcgcc gtatccagaa 420
ccctcggaac cctcggaacc cacgccatta cagtaccaga cgtcgcggac caccttgttg 480
ccgcactcgc cggagtatat aaaatgtcca acccaccagg gaatagtcca gaaacgattg 540
tcatgggttc ccatcactat tctggttctg gcgatctact ccaccatctt ctccggcatc 600
tacctggtgc ttgcgctggt gaaaccgcgc tatggcaaaa agatcggcga ggacggtggc 660
ctggcgcctt ccacagccag cctacttagt gcactcttcg cgaagaccat tgagctgtca 720
tacgtgacgg tctgcgtggc gtttctgggg caagtcctga gtcgtcgagc gatcaccaag 780
gggtcgcgcg gaatcaccat ctccgacatg agcatgcgca cttggatcat gcagccaggc 840
tccctcattg tgcactggga gactgtgcgg tactctgcgc tcacggtatt gggtgtgatc 900
acgttgaccg cgacgttggt ggcgatgctt tataccacgg cagcagaggc gctaggtggg 960
tttttgctcc gatga 975

<210> 4017
<211> 252
<212> DNA
<213> A.fumigatus

<400> 4017
cttacaatgc tggtgccctc ggtgcctttg ctcaacctca ttaacgatgg ccggaagctg 60
agcatgctga gaaacgctac atggaccctg agcaacttct gccgtggcaa gacgccccag 120
cccgattgga ctacagtaag tttctccagg ctatgctctg atgacaacgt cacttttcta 180
acgcttccca gattgccccc gctcttcctg tgcttgccaa actcatctat atgctcgatg 240
atgaggtcct ga 252

<210> 4018
<211> 939
<212> DNA

<213> A.fumigatus

<400> 4018
caacgtcact tttctaacgc ttcccagatt gcccctgctc ttcctgtgct tgccaaactc 60
atctatatgc tcgatgatga ggtcctgatt gatgcttgct gggccatctc ctacctgtct 120
gatgggtcca acgataagat tcaggcggtc atcgaggccg gcatccctcg tcgtctcgtt 180
gagctgctca tgcacgcttc tacctctgtt cagaccccag cccttcgctc tgttggaaac 240
atcgttactg gtgacgacgt ccaaacacag gtcatcatca actgtggagc tcttcctgcc 300
ctcctctctc tcttgagttc caccaaggat ggcatccgca aggaagcctg ctggaccatc 360
tccaacatca ccgccggcaa ttctagccag atccagtctg tgatcgatgc tggtatcatc 420
cctcctctga tcaatttgct tgccaacggc gacttcaaga cccgcaagga agcttgctgg 480
gccatctcga atgccacttc aggtggactg cagaagcctg accagatccg ctacctggtt 540
agtcaaggat gcatcaagcc tctgtgcgac ctcctcgctt gcccggataa caagattatc 600
caggttgctc tggatggctt ggagaacatt ctcaaggtcg gagagatgga caaagaggcc 660
gctcagactg gtgaggctcg cgtcaaccgg tatgccttgt tcatcgaaga ggctggtggt 720
atggagaaga tccacgactg ccagaacaat gccaacgagg agatctacat gaaggcctac 780
aacatcattg agaaatactt ctctgatgag gaagaggccg gcggtgacat tgatgagctt 840
gcccctcagc agacgcaaac tggtttcgcc ctcggaacca accagcagca acctggcgga 900
ttcaactttg ccaacggcgg tgactccatg gatatgtaa 939

<210> 4019
<211> 252
<212> DNA
<213> A.fumigatus

<400> 4019
tttcatttga attttttttt tataaacgcg gagatttctc gccaactaaa gttcgaaccc 60
catccattgt tctctatcag gtacagccct gctatttacc tctctaaaac agtgaatcaa 120
tggcaatatg ttcacatcaa tccgatcaac acctgtccaa aggtttgcca caccaagtta 180
attagaccat gcctgaacgt actacccttc aaaaaacaac cgatgatcgg tcgactccca 240
ccatctgtgt ag 252

<210> 4020
<211> 987
<212> DNA
<213> A.fumigatus

<400> 4020
cttgatacgc atagcgcgga tccttccgcc cccgtggtga agatggtctc ggggcactac 60
gttttctcca agctcattgt cgacggtaaa ccgacccagg actttgagta catccgcagg 120
aacaccaaca actacatgcc gaccctcccc tccgagatcc tcagcaatga cttccgctgc 180
aacaagggct cgatgcagtc cgccgccaat accaaggtat acaaggtggc ccccggcacg 240
gagctcggct ttcagcttgc gtacggcgcc gagatgaagc acccgggtcc tctgcagatc 300
tacatgtcca aggctcccgg cgacgtcagg tcgtacgacg gctccggcga ctggttcaag 360
gtccaccagg aagggctctg cgccgacacc tccaagggga tcaaggacga ggattggtgc 420
acatggggca aggataccgc gtctttcaag atcccccaag acacgccggc cggacagtat 480
cttgtccgcg tggagcatat tggcctgcac cgaggcttcc tcggcgaggc cgagttctac 540
ttcacctgcg cccagatcga ggtgacgggt tcggggtcgg gatcgccgag tcctaccgtt 600
aagatccctg gagtgtacaa gcctgatgac ccgaacgtcc actttaacat ctggtatcct 660
actcctacgg cgtacagcct ccccggcccg tccgtctgga ctggtggctc ggcaggaggc 720
gccagtccta ctgcgccggc tgtcaacaac aatgctgttc aagccgctcc cacgaccatg 780
acgactgtct catccccagc caacccaact gcaggagcag aggcagaagc agattgtggt 840
agctcagaat cttcgtccgc tgtggccccg gagggcaccc tcaagaaatg ggaacagtgc 900
ggtggtctga actggactgg ttctggctcg tgtgaggcgc gcactacctg ccaccagtac 960
aacccttact actaccagtg tatctag 987

<210> 4021
<211> 303
<212> DNA
<213> A.fumigatus

<400> 4021
caatccttac ctctaaggtt gaagttgata aagcattcaa ttcccatcct atcacggcac 60
ttgaccatcg gaggtgctga cctatcagtc accatcaatg tggtactccc gcatcaacct 120
acctctaaag gttcagcgta tcctgagttc cttagatggt gcttttgcgg tggaatggtg 180
tggttttgct ctaaccagac tgctagtttg tacccatgga cattaaaaag ccatgtctcc 240
cctcagtata gttcggtgtt ccagcttcgg ctttccatct acgattgcgt caatacagat 300
tga 303

<210> 4022
<211> 558
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (268),(494)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4022
gcttgtgtct tcgccaacgc tgctattgtt caatttaagc tgacaattca ggccgtgcgt 60
tatctgagaa atgcataccc gagcgataaa ctcgtcttca gggtagtcac cctcttggaa 120
cctcccaaag ccctcatgat accgtatcta gaggcagagc gttctggcaa gcgggacgtc 180
actgctccga agcggactgc gttcgttcaa ttctacaaga acacaacagc agaatttcgc 240
gaggtccata ttgagttgga caccggcnag atcacgaaag agaaggacct cgcgggaagg 300
cactcatatg tcgacccgga ggagatgcag gctgctgagg atgcttgcat tgcctcaaca 360
gaggtgcagg aggcaatccg gttgctagaa cttccggagg aggctgtcgt ctgtattgag 420
ccttggacgt atgggactga cggaatgaac gatatgtcgg agcgaatcat tatggtatgg 480
tactcggtca cgtncgaaag tgcagtagtg actttctata cagtgctact tttacatgcg 540
tcttgggaac cacggtga 558

<210> 4023
<211> 432
<212> DNA
<213> A.fumigatus

<400> 4023
cgcctgtggc tggtagaacg cacgtttttg gcctggctga gaacatcgct agcttttgct 60
tccattggga tcgcagtgac ccagctcttc cgcctgaacg cgaccaacgc accgtcttcc 120
gacgtatctt ctcaacagtt tccttctctc ctttcacccc ctttctatga ttccgcaaca 180
atacagatca cgtctgaatc ccaacgactg cggaatattg gcaaacctct cggaacgacg 240
ttcatcggga tcgccctgat gatccttctg attgggttcc accgctattt tgagagtcag 300
tactggatca tcaggggtaa atttccagcg agccgtggaa gtgttgctct ggtagcaatc 360
gttgcggctg ctttgatcgt aacctctttt gtcgtcatac tcgcaatttc gccaagtgct 420
accgagagtt aa 432

<210> 4024
<211> 900
<212> DNA
<213> A.fumigatus

<400> 4024

agccttgctg accgggaccg tagaagacag cgggctgcat gtactgcatt taaagttagc 60
aactgtgctc cattttacga gccaacattt aatgatccga aaatcaggga tacataccgg 120
ctggggcatt ccagcggcag cggcggcctg ctgctgacgg atggtgttgc gagcctgaat 180
gctggcctcg agctggcttc tgcggacatc cttgcgctgg gcaagagcca catacagagg 240
cttgccgttg accattctct ggttcatttc ggtgacggcc ttggaggcct catcggggct 300
gctgaagcag acgaaaccga agcccttgct ctttccaaga atcttcttct ctgtcttctt 360
gggctcctcc tcggactcct tgggcttctc ctcggtcttc tcctcaccct ccttctcgtt 420
ctccttgttc gactccttct ctttctcctt ctcggactcg gaggtctcgc cggtagtgac 480
ggtgtcacgc atgaccttcg cggaggtgat ggtgccgaag gggctgaaga gctcgcgcag 540
cttttcgtca tcaacgtcat cagtgaggtt cttcacgtaa agattgacac cctggtactt 600
ggaggccttc tccaagcgag cggcctcgta ctgcttgcgg agctcctcct cacgttcgtg 660
cttcttctgg gcacggccaa cgtaaagctt ttggcccttg atctccttgt cgttcatctc 720
gtcaacggcg gcctgcgcgc tatcgtgggt ggagaagttg acgaagccga aaccacggct 780
cttaccctcc tggtcgcggc tcaaagtggc ggaggtgatc tcaccgaact tctcgaacat 840
cttgcggaac tcctcatcgg tgacttcttg gttcatgttc ttgatgtaga acttggttga 900

<210> 4025
<211> 642
<212> DNA
<213> A.fumigatus

<400> 4025
atgcagtaca tgcagcccgc tgtcttctac ggtcccggtc agcaaggctt catccctgct 60
ggtcagcgcg gcggcatgcc ttttgctccc ccagcccggt atggtgatgg gcatccctgg 120
cggacgcccc cggccagtac cccggtccct tccctggtca gcagggtgga cgtggcatgg 180
gccctaacca gcagattctt cccaacttcc aaggtattcc ccatgggcgc catgcagggc 240
cccggtggca ttcctaacgg tatgggttac cctcagatgg ctcaggtaca gttcggacgc 300
ggtgctggtg gccgtggtca ggtgcctgga atgcccatgg gtcagggtat tcgtggtccc 360
ggttacgggc agggccgtgg tggcgccccc gtccagggag gccttcgtcc ccagggtggt 420
cgcggtcagc cagccggtgg tcctcctgcc gccggtcgcg aggaggttcc cgccactggt 480
ggtctcactg cccagactct cagcgctgtc ccccctcctc aacagaagca gatgctgggt 540
gaggctctgt accccaagat tcaagctcag cagcccgagc tggctggcaa gatcactggt 600
atgcttctgg agatggacaa caatgaattg cttggcctgt aa 642

<210> 4026
<211> 1071
<212> DNA
<213> A.fumigatus

<400> 4026
gtcagagcaa gtttgaggag aggaaggccc atttcaacca agttctacat caagaacatg 60
aaccaagaag tcaccgatga ggagttccgc aagatgttcg agaagttcgg tgagatcacc 120
tccgccactt tgagccgcga ccaggagggt aagagccgtg gtttcggctt cgtcaacttc 180
tccacccacg atagcgcgca ggccgccgtt gacgagatga acgacaagga gatcaagggc 240
caaaagcttt acgttggccg tgcccagaag aagcacgaac gtgaggagga gctccgcaag 300
cagtacgagg ccgctcgctt ggagaaggcc tccaagtacc agggtgtcaa tctttacgtg 360
aagaacctca ctgatgacgt tgatgacgaa aagctgcgcg agctcttcag ccccttcggc 420
accatcacct ccgcgaaggt catgcgtgac accgtcacta ccggcgagac ctccgagtcc 480
gagaaggaga aagagaagga gtcgaacaag gagaacgaga aggagggtga ggagaagacc 540
gaggagaagc ccaaggagtc cgaggaggag cccaagaaga cagagaagaa gattcttgga 600
aagagcaagg gcttcggttt cgtctgcttc agcagccccg atgaggcctc caaggccgtc 660
accgaaatga accagagaat ggtcaacggc aagcctctgt atgtggctct tgcccagcgc 720
aaggatgtcc gcagaagcca gctcgaggcc agcattcagg ctcgcaacac catccgtcag 780
cagcaggccg ccgctgccgc tggaatgccc cagccggtat gtatccctga ttttcggatc 840
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ccgctgtctt ctacggtccc ggtcagcaag gcttcatccc tgctggtcag cgcggcggca 960

tgccttttgc tcccccagcc cggtatggtg atgggcatcc ctggcggacg cccccggcca 1020
gtaccccggt cccttccctg gtcagcaggg tggacgtggc atgggcccta a 1071

<210> 4027
<211> 255
<212> DNA
<213> A.fumigatus

<400> 4027
gaatacagag tctctgacag gtcctatcca gattataggt atttgtggtt tggtttggtt 60
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tggatgggac ggacaattgt cattattgga tggccgacga ctatctggct taaagagatt 180
actatcggca tcgagattgt gagaattaat cgtcatacgc aaccggtcct tagtcggcca 240
tgttcgtgta gttga 255

<210> 4028
<211> 204
<212> DNA
<213> A.fumigatus

<400> 4028
cacaatggcg tccacagaca aaccccagat cctccttctc tgcctctcat tccgcgactt 60
tctcgacgag acctactccc cacttttaac accccgggta aattagccgc tgttcaaccc 120
cctaaaatcg aatttggcgc attccgcgcc ttgtgcttga cctccttcaa aggaggtatt 180
attgcccaca taggcctcac ttga 204

<210> 4029
<211> 339
<212> DNA
<213> A.fumigatus

<400> 4029
tggccaagga tggagagtcg gagggcctgt tcgaggaagc cttgcaaaca acagttttgg 60
aaaacattct gccttgctta cttcaagttc ggggccgcat tccgtccttc ctcactttcc 120
ttggaagaca ctcatcagtt gagacagttc tctctcttcg gtaagttgtt tgtcgatgat 180
gacatttgtc gttcgagttt ccttcatctc tttgatgtcc agttagttgt acgggacatc 240
ttgggtgaca tcgtcatgtc gttctccaag cttacggact accccacact agtggcgcat 300
agaagtgtaa agctgcagat ctggggtaag atgctcatt 339

<210> 4030
<211> 579
<212> DNA
<213> A.fumigatus

<400> 4030
ccttcctgtt tgccctatct tattctaaca tggtggccta ggaaacacca gaaacgtcac 60
gatcgaccct acggttgcac attccctaag tgcagcaaga catttggcag caaggcggac 120
tggaagcggc acgaaaactc gcagcactat cacatccaaa gctggtactg taccttgtgc 180
gatccgacca aggggaaacg atacgcgaga tggtattatc gtcaagaggt cttcgtgcag 240
catctgaaaa cacatcatca cgtcgataat gaaggagcga gagttgcggt cgcgaataac 300
cttgtgggag agaatggaca gtctcgattt tggtgcggct tctgtaggga gattattcct 360
cttcatagcc agggtcgaga agcgtggaat gagcgcttcg accatatcga ttttgagcac 420
tttcgtagag ggcagcggat cgaagactgg gtgcactgtt gccattcgag cgatgatcaa 480
gaatgcgagg aatcaaaggg acgaaacatg gccagtggaa gcgatgagag cccgttcccc 540
acagattttt tacacacgcg ccagaatcca cttattgtt 579

<210> 4031
<211> 234
<212> DNA
<213> A.fumigatus

<400> 4031
tacggaagca ggttccagag actgaacgtc ctgatcaaca atgcctcaaa acagtatatg 60
aataagaact tcgccgatat cgacctgaat aaggtggagg atatcttccg gaccaacatc 120
atccagatga tggctctgac gaaatatgct ctgccatttc tgtcaaaggg tgactcgtta 180
gtattcctca aaccgcagca tgcgcaatta actcatcgta cttatatcaa tagc 234

<210> 4032
<211> 216
<212> DNA
<213> A.fumigatus

<400> 4032
cgagcgtata gctccggcat cggccgagct gttgccattc tgatggcacg ggaaggggcc 60
gatatcacaa ttgtccattt tcccgaggag atagacgacg ctgaagagac caagagagcc 120
attgaacatg aaaagagatc atgtctactt gtcgctggag acctcagggc ccacaatatg 180
tgtcgacgag ctgtggagga gcatatgaac aagtaa 216

<210> 4033
<211> 369
<212> DNA
<213> A.fumigatus

<400> 4033
tatctaagaa ctcgcaaagg tcccactcaa ccttccgatg tagaggctca aacaaaaact 60
tcactcgtct acagcaacct agcaatctct tcgaaatggc gtctcagatg ggtaaggaag 120
gtacttttca accgcctcag gcaccgcaga gtcaacaaaa accggggtca gtgctccgtc 180
cctacagggg tgacccttaa cgactccggt actaaggacc tgatcatcag actcgaaaag 240
catatggttc ctcccagcga agccacgaaa ctggagtcaa aaggtcactt tgtcgagtat 300
gtaggctctg gcaaattgaa agacaagaag gttctcatca ctggcggaga gtatgtccat 360
cagttttag 369

<210> 4034
<211> 291
<212> DNA
<213> A.fumigatus

<400> 4034
agccgtcgaa ggatgtgtct gcggcgctgc gcgccaagcg gtagaagaaa agcgacccca 60
gcattgttcg agggcgaggg cgcgtatctg gggccctggg caaagtacca ggacgacgac 120
cgtgtctatt atgaggaagc tgccttatca tatcaggaac tggggaacga tcaagaattt 180
gttggaggat catttcttat tctttctctt tccaactttc ttaatccttt accttggttt 240
tattttaact ttctttatcc acccctttt ccaaccttac tttcttccct t 291

<210> 4035
<211> 1473
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (621)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4035
gtgaccaaaa cctcgcgagg acgccacgtc ctgagtcatc ggtactcgtt cttcgtcttc 60
aataacctca tggtcttctc gctcttgtcg gccgcatgga catttgtggc cgctgtcgtc 120
gacgcgaaga accatgacga ggacgcctgg caagcgatca aggatggcgc gttgtaccaa 180
aaggtcatga gcgccttgtg ccaagtgtct cccttctggg tgacgtggct actgcagcgc 240
aacctcggag cggccatcga cctcgtgcag ctggtcactc tcttctgggt ttggttctcc 300
aagacctttg tcgctcccac gccccggcag gccatcgaat ggaccgcgcc cccgccgttt 360
gattatgcga gctactacaa ctactttctg ttgtattcga ccgttgcgtt gtgttttgcg 420
acgatgcagc ccatcgtcct tcccgtcact gcgttgtatt tcggattgga cgctatgttg 480
aagaagtatc tgttgctcta tgtgtttgtg acgaagacag aatcgggcgg ccagttttgg 540
cgcgccctgt tcaaccggct ggtctttgcg accatcctct ccaatgtagt cattgcgctg 600
gtggccaaga ccaagggcac ntggaccatg gtctactgtg tggttccgct gccattcctg 660
atgctggcat tcaagttcta ctgcatgaag acattcgacg acgagatcaa atactacaac 720
cgagcgaacc tgaccgatgc ggaggcgttt gctgtcgaca aatcgggcag aaaagggtct 780
gaccggctca gctccaagtt cggccatcct gccctgtaca agcctctgat caccccgatg 840
gtgcacgcta aggcggccga tgcactcaaa caaatctatc gtggtcgact cggcgcctcg 900
gacgtccatg gcgaatactc ggacattgca atggatccca tgtcagcaac gcaaccgggc 960
aaggccatgg acgccggcca atcggccccc ttcgaggttg ttcccgagaa tcatcttgac 1020
ttctcctact tcaaagatcg tcccgatttc cgtgacgagt ttggtggggg catctatggc 1080
cgtcccgagg acttgatgac tgaacggtcc catacgccgc gtagccacct ggccgaatgg 1140
tcaccggcca cgtcccgcgc gtcgtcgcct acgccgtcgc tgccgtcgct ctctggattg 1200
aaaatgcccg aaggctacga cccgatcgcg aacgatatcc accctgcctt ccggactcct 1260
ctctcgcgtg aggagagtgc ggcgatgggc accggtctgt atcatcaccg gagcgcgagc 1320
gagtctcagc agcttctaag ccaggcacag gtacctggga ccagcgagat cacacctgct 1380
cccctgagcc gatggcggac tggaggatac gggcctgttg agcaggacga tcccaacttc 1440
acctcgtatg agcagtaccg tcatgcgcgg tag 1473

<210> 4036
<211> 639
<212> DNA
<213> A.fumigatus

<400> 4036
actatccctc ccagatctga ctggtatgcg acggctctcc ctccaactcc gtcaaacacg 60
aaacaagcga aggctttgcc ccgccacgtg gtggaacgcg ttcacaatta tgccatctca 120
cttcttgaga aggagactaa gatgtacacg gaggcgcagc aggcctcgtc ctcttcctct 180
cacaaattct acacgaccat catgtcgacc ggtaccctca gcgacaagat ttcggctttg 240
acgcttgctg tgcaagagtc gccagtgcac aacaccaagc aactagagaa tttgattggc 300
ctaggcagga agcgcagtcg cgctcaggct gtggaagttc tgagatcgct gaaggatatg 360
tttgcccagg gtacattgct tccgagtgat cggagattga agagttttgg aaaccagcca 420
gctctcatgg cggcattcca aggagctgga agcaaatggt cggaaggcga ccctcttcct 480
ggaggtttgc aaaacagcca tctcatcatg tgggcatatg agcacttcct gaatgaccaa 540
tactttgagg ttctgaagat cttggaagtg tggtgcaatg atgagattga gttctcccgc 600
tccagaaccc gcagttatgt ctatgagctg ctgaaatga 639

<210> 4037
<211> 861
<212> DNA
<213> A.fumigatus

<400> 4037
tcgaagtcaa ccacgagcgt attgtcagtc tggccatttc acgacgcttc aatggccaag 60
ggcaaaggaa agagctcctc cggagcaaat gcagtcccag tggctgattc caagtctgct 120
ggggaatctc ttcctcagct tgaggagggt gcatttgctg gcttgcgaca gaaaatcgaa 180

cagaaattga aggatgagca ggctgccaaa caaaacaagg cgaagaacaa gaagaatcag 240
aacttggaca aatctacgcc gaagaaggag aaggaatctg caccgaagtc cgaaccgaaa 300
cgtgaagcca agagcgataa gaacaacaaa ggcaagaaac gtgaccgcaa cggagaagtg 360
atcgctaggg aagagaagaa gcttggtgga aaccaggatg acactttacg ccaggagatt 420
ttggcgctgg gtggtaccga agaagacttt gatctgctgg cgggcgtgga atccgagtct 480
gaagtggaag tcacagagac acagaagaag tcgaagaaca agtctgatga ggattcgctg 540
aggaaggaat tatccgcaat gctagctgct gctggtcaag ttgtgcccga cgatattgag 600
gacgaaaacg aggtggctgc cgcatttggc tctgaaggag aggacgagga ggaaaaagaa 660
gaggaggaag acgacactca gcagagcgag gatggcgatc agtcagaaga agaggaggaa 720
gcctcttcgg cgccagtttc cagaaacgtt gagcctccca agaaggagaa ggccaaagag 780
ccagccgccg agaatatctt ccccaaagaa ttctcgaaac tagtgagtat atccaagttc 840
ttgctcctcg aaatgtacta a 861

<210> 4038
<211> 774
<212> DNA
<213> A.fumigatus

<400> 4038
acttcaaaat tgggaacggc ggccactgct cgcgggatat tttatccttc atgggcctgg 60
catacttcta ttactccgat atttccaaac attgggtccc ggcaggggtt ggcatcgtcg 120
gttaagctgt tcaatcccaa gtcgtttacc ttgaccatcg gttcttgcat ctttacgttc 180
gaaggaatcg ggctcatcct ccccattcaa tcgtccatga aacacccgga gaaattcgac 240
gggctcctct atactgtcat gatcatcatc accgtgctct tcaccgcggt cggcgctctt 300
tcctacggcg cctttggctc cgacacgaag atcgaagtca tcaacaatct tccccaagga 360
gacaagtttg tgaacgctat gcaattcctg tactcgatgg cgatcttaat tggtgtcccg 420
gtacagctgt tccccgccgt tcggatcatg gagggcaaac tgtttggtca ggtgtccggc 480
aagcgagacc cttggatcaa atggaaaaag aacggcttcc gatcgttgat cgtgctggct 540
tgcgccgtga tgtccgctgt cggtgctgct gacttggaca agtttgtctc attgatcggc 600
tcgtttgctt gtgtgcctct ggtttacatt tatccggcgt acttgcactg gaaggggtc 660
gcagactccc ccttggctaa atttggcgac cttacaatgg tggtgctggg attcgtcttt 720
atgatttata cgacgttgtc aactgctgca gtatggattc aagggcataa gtaa 774

<210> 4039
<211> 255
<212> DNA
<213> A.fumigatus

<400> 4039
aatggtgtgg tgtctctaag gttagggata ggggtggtgg tagtagtaac ctgtattata 60
gcattaataa tatgctctta cctagtaatt atctactata atacctctaa ctttatctta 120
agttccctaa tctattactt taatataatg acttccttaa cttttaccta catagcctat 180
ttatattttt acttaatctt tattacctct tctctgtata aggagttact attatatatt 240
atctctagga gataa 255

<210> 4040
<211> 267
<212> DNA
<213> A.fumigatus

<400> 4040
actatctgtg taatcagcgc tgccgagtcg cctttcggcg gcgtcagaga gagtggactg 60
gggagagaag gcagcaagta tggcttacaa gagtaccaga acattaaaag tgccactctt 120
ggtaatttgc aggccggatg ggtttcacca ggcttggtgg atctgtaccg ttttgagaga 180
atgaggttga gccctgtggt agttgggacg ttctggttgg gttgcttcct gttgaagcca 240
acccaaaatg tcccttatgc taggtag 267

<210> 4041
<211> 354
<212> DNA
<213> A.fumigatus

<400> 4041
tgccacatat taccttcagt gaaaagttgg cggccacggc acgatttgca tatatcaagt 60
gtgaagcctc atactatcat tgtttcatgc tttcagacat ttttatctac tttgaccgct 120
acgtctcacc tttggcttct gggtcttcct cttcatgcat tgacggcggt ctacttcgtt 180
tcaattgccg acgaccctct cgatatcttc ttctgtgttt atagtgcttg cagcatctct 240
ttgcattggc ctaatttttt ttttactctt gagaatgatc cttatcccct cattgctggt 300
cagtccatct ctatgtgcga cggagatctg accactcttc gcacgcctac ctaa 354

<210> 4042
<211> 249
<212> DNA
<213> A.fumigatus

<400> 4042
ctcttggttt gcttttggga tctgatgcca catattacct tcagtgaaaa gttggcggcc 60
acggcacgat ttgcatatat caagtgtgaa gcctcatact atcattgttt catgctttca 120
gacattttta tctactttga ccgctacgtc tcacctttgg cttctgggtc ttcctcttca 180
tgcattgacg gcggtctact tcgtttcaat tgccgacgac cctctcgata tcttcttctg 240
tgtttatag 249

<210> 4043
<211> 231
<212> DNA
<213> A.fumigatus

<400> 4043
gcggcggaga gcttgtacac tttatctgcc ctacccctag catactccca tagacatctc 60
cggcatgagg acaataaatt tccgctgaca atcaatactt attacaaatg gaatatgatt 120
gggaagattg agaacgtcga aacattgtcg tttaaattat gcgatatcat cagtcataaa 180
cagctttatc tccaaaacac accgccaccc aagatggtct accatagatg a 231

<210> 4044
<211> 681
<212> DNA
<213> A.fumigatus

<400> 4044
aattctgacg aagaggacga gataatcttc gatgttgagg aggaagaacg ggttacagtc 60
acgcccgagg cggggagcac atcatccgca tcagaaggga acagggatgc tgtctccgag 120
gaagcgaggg agcagatgca cgccgaagcg gaaggcgagg ctgaattcga gatggatatc 180
tcccagacta catcgcagaa tactgcgtta acaacggcaa caccacaacc atcagcgaca 240
gcaacagcag cagcagcaac accgacactg cggcaccgac atcagagtgg ccctactgct 300
gtaacagact ccacagcaat tgccactggc tccgcgacct caacttccaa gctccaagaa 360
acagagcaga cgctcgatgc ccaccgtgcc gagcaagaag acctcaccac ctccctgctt 420
tcccttgcga cgcagctcaa ggcttcttcg caggcattcc attccagtct ggaggcggag 480
aagtcggtgt tggcgcgcgc ggtcgaaggt ctcgaccgga cgaccaccaa tatgggcgcc 540
gctgagaaga ggatggggat gttgcggcgc atgactgagg ggaaaggctg gttggggcgg 600
atgatgctat atgcttggat tttcggtctg tggattgtgg cagtgttgat tgtgtttctc 660
ggaccgaagt tgcgactttg a 681

<210> 4045
<211> 219
<212> DNA
<213> A.fumigatus

<400> 4045
gtattgattg tcagcggaaa tttattgtcc tcatgccgga gatgtctatg ggagtatgct 60
aggggtaggg cagataaagt gtacaagctc tccgccgctt actcatccat ggcctgcgat 120
ctacagccaa gtgacagcat ctctgtctcc aactttagag catcagcctc ctcactttcc 180
ccaaccacgt tctcaatagg tcagggagcg caaaaatga 219

<210> 4046
<211> 798
<212> DNA
<213> A.fumigatus

<400> 4046
ctgaaggttg acatatcttt ctctccagtt gtcacagttt tgctggtcaa ctctgataat 60
gcctctgctt ccgatctgaa ttccgaattc aaaactgcag gaatagtcga ctacgcttac 120
acaccctcca cctccgcagc accaagcacc tggcctacat tgcagacttt gatcaataac 180
gggactcggc tgatggtctt cgtggcgtcc ttagactcca acacagatgc cccttacctt 240
atggatgaat tctcgttttt attcgaaaat ccctacgacg tgacgtcgcc ttccaacttc 300
agctgcaatc ccgaccggcc agccagcgtg aagaatgacc tctccgctgc gatctcgtcc 360
aaccgcctgc ccctcatgaa ccatttcctg tatgccacaa ccatcctgaa tattgagtat 420
cccaactcca cgtacgtgac gaccacaaat gcgccctctg gcggagtggg gaatctagga 480
gacaccgcga cgaagtgcca gagcgcttac ggccgtcagc cggcctttat attggtggat 540
ttctttgaca agggcccagc catcgatacc gtggataagc tgaataatgt cacttcacct 600
gttgggcgca ccaacctcac aacgagctcc agctcgagca cgacacaaac aagctctgcc 660
tcaacctatt cgaacgtctt taaggggttg gttgagctag tacagcaggc gaagtcgggc 720
tcaaatccca gtatgggcga ctgggtttgg gtgggggggtg attggggaag tcttctcggc 780
ggcggtataa caatgtaa 798

<210> 4047
<211> 207
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (75),(140),(150),(178)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4047
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ggctcggctg aaagntttтc ttttcttccc ttctatttca tcttcttttc gtttcccagt 120
cgggctgaaa ctgaaatctn cgtgggattn caccttttgg ggtacagagg gaagagcnct 180
ttcagaaggc cacaaccgac ctcgtaa 207

<210> 4048
<211> 1122
<212> DNA
<213> A.fumigatus

<400> 4048
atctcagcca tggaagctat ctatggcttc gatcggatgt ccatagacga gcccgccccg 60
gaggcgccgg cagaagcacc agcagaagaa ccagtagtga tacgtccttg tgcttactgc 120

agcgaggata ttgaaggtga acaagtacgc ccttgcaaag aatgcggttg ttattgctgc 180
acagagtgca tccgacaaat tttcctgatg gcttgcaagg atgaagccca gatgccgccc 240
cgctgctgcc agcccattcc gctggctgtt gcacgcagac atctttctga tgaggagatc 300
gccttgtaca agttgaaatt tgaggagtgg agaacagtca accgctgcta ttgccccgtt 360
tccacctgct ccggcttcat tccccccagc tacatacagc aacaatggaa gaatcttgtg 420
gcttccagcg gcttttatag gcagttggca gccagtgggg ctacaccgtc tcttccagta 480
agcccgttgt acatctcatt ccccgtgctc tgcccgaagt gctttgctca ggtatgttgg 540
aaatgcaaga aactgtacca ccacggctcg acttgtcagg cgtcggatat cgaccctgaa 600
ttggcgcaga ctttgcaaaa cctgggaatt aaacgatgcc ccaagtgccg tgctgcagtc 660
cgaaggatgc ttggctgtcg tcacatgcag tgccgttgcg gtgcacaatg gtgctggtat 720
tgttgccggg ctatcgaggt ctgcaaagcg aatatttgtg acaaggggcg ggaggccgag 780
atagatgttc atgaggacaa tgctgaggag attgccactc aggttgacga gggagaggct 840
aaagaagagg aggacgagga cgaggacgct gagggtgact ctgatgatga ggcttattgg 900
agtcgttatg gtggctggat atctgatcca gatgagacag acgatgagca aaacgaccag 960
gcagcgtacg aggatgatga caacaagaat caagcgcctg aaatgccgct cgctagacct 1020
gtcgagcaca atcactttgc tgctgaggcc ggtagcgatg tcgaccttga cgctaggtcc 1080
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<210> 4049
<211> 411
<212> DNA
<213> A.fumigatus

<400> 4049
gcagagagct cgactgaaga tcagacctta cccgcagagt ggaatgctaa cgatacacat 60
tcttttcgat atgcccattc acaatcctcc atgcagttct tgctgaagat cggtcggtta 120
gggaataatg ccgttgtcct tgccttggcc ctaggcgatg acaaaacttc ttcatttgat 180
ctgctagtga aggactacat ttccgactcc gcctttccta ttacatccgc agatgacctg 240
gcaaggaccc tgagggatgt gttcatttcc gaagcgcggc tgaatgactt gattgggctg 300
tttaaagtga acgtgattct gaagctagct cctggtttgt acaaggaagg atacgaagac 360
accactcaag ccctacgaag aaagacaaca agaaaggcca ccacaacatg a 411

<210> 4050
<211> 552
<212> DNA
<213> A.fumigatus

<400> 4050
ctcctggttt gtacaaggaa ggatacgaag acaccactca agccctacga agaaagacaa 60
caagaaaggc caccacaaca tgatcccttа agggatgata cactacctca acctgcacgt 120
ccttatccgt ttgatgatcc tctggcggca ggtcctcgtc gaccagcgcc accaggtgat 180
tttgctcccc caggatttga agatgaatat gagatctaca gacctcctcg aggatatccc 240
caggggaatg gtggccgtaa tcctttgagt attggcgata gagatttgta tcctgccggc 300
ctcggtccga atgatcctat tcgaggaggc gtcggtcctg gtcttggagg gggaggtggt 360
ggcggaatgc acccaacatt cgacgatccc ttgttcggtg gtcgtcgaga cgatggttat 420
aatccgcaag caccccctgg atctagatat gatcctgtag gtccgggagg tgcgccatcc 480
gggcgaggac gtggtccgtt tggaggaggc tctggaggag gatttggagg atttggcggt 540
gacatcattt ag 552

<210> 4051
<211> 774
<212> DNA
<213> A.fumigatus

<400> 4051
gcgaccggcc catacccagc gctagatctc atctcgcttt atggcctagg tccggttgcg 60

aaatcggttg caaggatgga tcctgttact ggggagaaga tcaacaggct caggaagtct 120
tatgagggca agctgaaggg tttgggactc gcaggaagaa acaaacccgt gaagcacgac 180
ccctctgctc ctggtgggct ccgacatcta accatgtggc ccgaggagga gtggcataac 240
cagaaagttc atgggaagga aatcaaggtc gccgatgttg attcggcatc gcataacctt 300
caaatgaagg cgatgcatat ggagccgggc acagttccaa acaacgaata ctgggaggac 360
gtcttgggtc acgacaagcc atcgaaacat gcgggccatg gggacggaaa gaaagcagct 420
acgcttccta ataccgcccg atcgcctagt caagcgaatg aaacaccact tcctacggag 480
ccggaacgcg ctcgccctag tcgcgggcgc aagaggcatt atgacgacaa cagcttcgtc 540
gggtatggcg aaggctttgc cgatgacgat gatgacgccg cattctattc caacagtgaa 600
ggaatgggaa agaagaaacg aaagaaggta agatcacatg ccatttggga tgggtcgtgg 660
acacgactga tcgtacttgt tttcctaaag gagcatgttt caaaggttcc cacaccgctg 720
cccgatagag gcggtagcta cggcgtcggt atgtttggaa ttggagcgag gtag 774

<210> 4052
<211> 228
<212> DNA
<213> A.fumigatus

<400> 4052
aacagtgtca aacagtggat ctcgaccaac tatgcttcta tgactggcgc cgcagcaacg 60
gccaccggca actcgggctc tgggtccgga tccaagggat ctgattctca gggccctgcg 120
tcgagctcca gctcacaagg agctgctgct gctcctgctg ccactggtgc cattgcggct 180
agcattgtgg gtgctgccgg tgtccttggt attgccctgg ctctgtag 228

<210> 4053
<211> 705
<212> DNA
<213> A.fumigatus

<400> 4053
cttgtgattt tcactgtgtc tcgaagccaa ctcgcgttcg tgtcctgcaa aggcctagaa 60
tcgccttctg attctgacgt cagtgccact aattgcctgc actacctacc tactgtatat 120
ttctcttctt cctatttcgg tccttctggg gcttcagacc ctcgacccca tatcccggtc 180
gagctcataa tttatccccc gaaatggcgc ttttatttct taaacaaaag ctttttccga 240
ccaaaggaaa acaaccccga ccagatacat atggttcgtt tgaacgcggc tatgtaccca 300
agtatatacg acgctaacca ggccccaggc aagcctcttt tatcagcaag cgattccgac 360
accctagaca gcgatatgga tcaagatatc gaagctcaac gatcatatcg tacttttcac 420
acgcctcgag ccgactccga ctccgtttca tcgggttcct ctacccccg atcacgtatc 480
aaccctcgaa tcatctcgga tgccatcctg ggtctgtccg atggcctcac tgtccccttt 540
gcgttgagcg ctggtctctc tgcgctggga aacaccaaag tcgtcgtgct aggtggactc 600
gccgagctgg cagctggagc catctccatg ggtttgggtg gatacgtcgg agccaagagt 660
gaggcgtacg ttttcccgct cacttccttg ttatacgaag ggtaa 705

<210> 4054
<211> 1026
<212> DNA
<213> A.fumigatus

<400> 4054
cgaaggattg ggcgaaactg gggggggggt tccgctttcg gggctgtggt gcaaggggcc 60
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gtaacggcgt gttgtactac aggaacaatt tttatgcgta ccggggaacc gatggagtac 180
gatccgaacg ggcaactcgc gtggctcata tccgagctgc aggccggtga gacagcgggc 240
cagcgcgtgt ggctcatcgc gcacattccc acaggaggta ccgataccct gcacgactac 300
tcgcactacc tcgaccagat catccagcgg tacgacgcga ccatcgccgc cctgttgttc 360
ggccacacgc acaccgacgt cttgcaggtc tcgtacgccg acccggcgca cccaagcgcg 420

gactccgcat ccgctgttgg gtacattacc ccctcgttga ccccaacttc aggacccca 480
gccttccgca tttacgacat cgacccggta actttcgccg tgctagacta caccgtgtac 540
accgcaaacg tctccaccga ggccacgcct caatggacaa aatactactc cgccaaggaa 600
agctacggct ccctcatcac cccacccgtc accgacccca ccgcagaact caccccggcc 660
ttctggcaca acgtcacggt tttaatggaa accgacaact ccgtctttca ggcgtggtgg 720
gcgcgcacaa cacgggggtt taaagtgcgc gaatgcaacg cgcagtgcgc gcgcgatcag 780
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accaagcgcg atggcctgaa cctcgccggt gttgcccctg cctctgcctc tggcccacaa 900
gtgcacgtgc attccactcg gccgcagtgc gaggagggcg ggctggcgag ggtgttagcg 960
gccgtcatac gggagacgga tgacttgcag gggctgcttt tgcagcgggc tgagctgtat 1020
atctaa 1026

<210> 4055
<211> 222
<212> DNA
<213> A.fumigatus

<400> 4055
tatggcgcgg caccttccag ccccgtggtg aagacccccc tgtccccatt tcccttcttc 60
cccccgacaa tcccactgcg catgcttccc gtcacgcaga tgcagcgggc cctcctcccc 120
ctcaacctca aactcaagac tcggaccgag atccaggacg ctgatctcgc tatcactgag 180
gaggagactc ctccgtcgag aagggtattg gtgcgcgtct ag 222

<210> 4056
<211> 207
<212> DNA
<213> A.fumigatus

<400> 4056
atccgcacac agaatggtca tattcgtaag ggcaacattg tgtctgagaa ccttatccta 60
aaccaggagg tcaaagctcc gcagacgatc tccccttttgt tcaacgatct ggatggacgt 120
caacagggca gttacacctg tatctgggac gtccacttca atatcgtggc gtgtcagcag 180
aagcaaacga ccatgctgcg attgtag 207

<210> 4057
<211> 273
<212> DNA
<213> A.fumigatus

<400> 4057
accacgaaaa agcaatatga ggctgacgtt agcttccaac cgcataatat agccgcgacg 60
cgccgatcac catccatcct tgaccaagag cggttccaaa cgagcgcggg cgagatgctt 120
acctcggcta tcctggtgcc atcgctcctg acggctgtcc cggcatcatc agctagtagt 180
ctccttcgct acgatgcgac actggacaag ggacggatcg aatgcgtcta ccccatcagc 240
gggcaatatg cccttatgca acgagtccta tag 273

<210> 4058
<211> 252
<212> DNA
<213> A.fumigatus

<400> 4058
acgcgccaac ttcatcaaaa tttggcccgt acaaatggaa catggatgac gcgtggacgt 60
gcttacattg ttctacgcaa tgtttatatc tccttccatg ctggcttcca cttctacagt 120
aacctgtggc ggatgggcac cctaaacgtg gaccagaacg cgagagttgc gatcatcaag 180
ggcggccggt cagtcgatag tctgactccc agcgactaca gtgtctggga cgttaccggg 240

cggcaagcct ga 252

<210> 4059
<211> 195
<212> DNA
<213> A.fumigatus

<400> 4059
accttggaaa tgggcctcga tcttttgggt tatcaaaaaa tccactggtg gggggagata 60
gaaggtgttt ttatggaata tatcttcctt ttgcggggct tgggtggaac ctggaaacaa 120
ggtacctcgt acaccgaggc tggttatttt cctcaaaata tcgtgtccaa gagcctcgtg 180
cacgctttgt attga 195

<210> 4060
<211> 747
<212> DNA
<213> A.fumigatus

<400> 4060
ccaacgtctg gtaagctgca ggcaggcacg aaatcgacca gcgaagaggc taaccagccg 60
cagcacggat gccgtccttg tctcgattcc cgttcccctg ctcgccaaag tccgattagc 120
attgcgccgg tacgcacatc agtcctaggc ggaaagttgg cagacgcgag cactaacgag 180
aaaataaaaa tgaaaacaga aaactcgtca tcggcgtcct cctctgtggc ggtgtcttcg 240
tcatgtgcgc cgccctcctc cgctgcatcc tctccctgcg aagcatcaac aacatcaaca 300
ccagcaccat ctgggccatc cgcgaaaccg tatgtgcctt ctccactccc aatcaagatg 360
tttgccccac taacagctca ccaccagttc gttgcactca tcgccgtcaa cgccccctgc 420
atcaaacccc tcttcagctc ctccgtctgg ctcggctcct ccaaagaccc ctcctccaaa 480
aacgcacatc gctacggcga aagcggcagc tactccctct ccgtctttgg caaatccaaa 540
cccgatcccc tcgtgtcgca cacgagtaaa ctgggcgacc acgccagcga cgagttcatc 600
ctccgcgagc agcgagagaa tgggccgaca tacgtcaatg atgtgagtgg tggccatggc 660
cagcacacgg atgaggagtc gggcaagttc agcggcggag ggatacaggt taccacgatg 720
tatgaggtga gaacgggacg ggcgtag 747

<210> 4061
<211> 378
<212> DNA
<213> A.fumigatus

<400> 4061
acaggccaac atggcgccaa cattggctta acgaatgctc agcgggccgc catgaccccg 60
gaccaggtca agagtcttgt catcggctcc aagtgtctgc ttgctggatg ggtgtgctat 120
gtgacactca tctggtgtct caaggcctgc atgttattct tctacaaccg cttgacgtac 180
gtgttccccg ttaacccttc agccccagtg ctaaccatga tagactgggt ctcatgcacc 240
agaagctcgt caagatcaaa cgcggtgctg tgcgcgttgg cctatgtcgc ggtcattttc 300
acaattttct tccttggcct tccgatacaa aagcattggc agatataccc ggatcccgga 360
ggtaagcgtc attgctga 378

<210> 4062
<211> 1269
<212> DNA
<213> A.fumigatus

<400> 4062
ctcgtatgta ccaacttaca aatcaagacc agcagggaat tctggggccg agttgagcgc 60
attatactga tggtagctct cacagtgtcc tcttcacaca ccaagcacgc tctagaagac 120
ctccatccca atatcgcagt gttccgacac cccgatcatc ttcccgatcg tcaaggattg 180

gcatcctcga ttacctcctc tctccaaaac ctgaccttgg acactgtttc gcttgcaaag 240
atgtccggtg atgcgctcaa gggcctgtat ggcatgagtg atgatgtgat cctctactgg 300
gcccaccatg agaaattgtg cttgatcgat ggcagaatcg ccttcatggg aggcttggat 360
atgtgctttg gccgatggga tacctatcaa cacgctatcg ctgatgtcca tcccaccaat 420
ttggacgaca ttgtcttccc tggtcaggac tataacaatg ctagagtcct cgacttccag 480
gatgttgtac actgggagaa gaaccagctg gatcggaaac gtacctcccg tatgggatgg 540
tccgatatct cagtgagttt gcacgggccg gtcgtggaag atttgcgtcg gcatttcgta 600
gagcgttgga acttcatcta cgacacgaag taccaggttc gcaaggatgc aagatacgcc 660
agacttgtct tgcctggccg accgggctct ccctcccccc aacaatacaa tgcccaacag 720
tcggcgccgc atcatcaacc ccggccgcaa cagcaggctc cgggcctctc gggttatccc 780
tcacagccga gcgttggcgg acaaggaaca ccaggctacc agtcttcgcc tagctacgcc 840
ggctactctc catcgcagag cggcggtcac caatcgactt atacttatac aggggattcg 900
ttccctcctc cacctccggg accgcctccc agtcaacaca acccagctcc tccgtctcag 960
tttcaagctc aaggtcatgg gcaagctcct tatttccctc ctccacctac tcaggaggga 1020
tcgcactccc agacaagggg ctttgacgac tcctatgagt tagctcgtgg ccaaggcgac 1080
tccgaccggg gatcaggctt cattcctcgc cgtctcaagg atgagctcac aggatacggc 1140
aacatcattc gcggacaatt ggcgggaaca gtccaaccat accaggatcg tctgacttcc 1200
tttgggcgcc acagctctca gccgcgaaag caacatgtcc tgtcagattg tggcgcgctt 1260
gggcgaatt 1269

<210> 4063
<211> 210
<212> DNA
<213> A.fumigatus

<400> 4063
ctttttgtag aagtatccgg ccgtgtgaat cagcaaatga attatgatcg ctgctactct 60
gtagactgct atgcaactca ggaaaaggga gggaaaatca aggcttccaa agacctcctg 120
tgctttgcac aaatactcat caatgatttc acctcaagtc tgcctaatgg caccaaaact 180
ttttttagta ccgatggacg cgaaatatga 210

<210> 4064
<211> 444
<212> DNA
<213> A.fumigatus

<400> 4064
ctcttctacc aggcatcttg ggtacggcat ctctctaagg attaccccac gttggcgttc 60
cacgcttcga tcaacaactc ctttggtaaa ggttctttga tccagcttct gaggcaattc 120
tcctctttgc actcggaccg gaagcagatc tctgtgggat tgattggtta tcctaacacc 180
ggcaaatcgt ccatcatcaa tactctgcga aaaaagaaag tttgcaacgt ggctcccatc 240
cctggagaga ccaaggtttg gcagtatgtg actttgatga agagaatcta tctcatcgac 300
tgccctggtg tggttccacc aaaccagaac gacacggagc aagatattct ccttcgtggc 360
gtcgtccgta tcgagaatgt tcacaaccct gaacattctc gtcttcacca cggggctgga 420
aggtcagacg gtagtgcatt caat 444

<210> 4065
<211> 846
<212> DNA
<213> A.fumigatus

<400> 4065
cttaatggaa gagatgcgaa gaaggtcaag catctgaaca tgttcaagga tggcaagcct 60
cgacgtgacg ctgctggaaa catcacagtc gccgcctcat accagtcacg agatgcacca 120
acggctcgga ttgaacccaa ccgtaaatgg ttcggtgaca cgagagtgat ttctcaggag 180
gcgttaacat ccttccgcga ggcggtcgct gaacgtgcct cggacccgta ctcggttctc 240

ctcaagacca acaagcttcc catgagctta atcagagaca atgttcacac tgtgaatgga 300
ctgaagcagc atgaagcgaa gatggccatt gagactgctc ctttcagtga tacattcggt 360
cccaaggctc aaagaaagcg agtcaagctg ggtgttgcat ctctggaaga cctggctggg 420
cagaccgcca agatgcatga cgcctatgtt gaaaagacgg atcaagctac tgacgaagat 480
ggaacaatca tcgcttctgg cgatgtgtcc accgacgaca agacttttag tgaagcaccc 540
actgctcgag agtccgtctt ctcgaaaggg cagagcaagc gaatctggaa cgagctgtac 600
aaggttatcg attcttcaga tgttgtcatc cacgtgcttg acgctcgtga ccctgaaggc 660
actcgctgtc ggagtgttga gaagtatatt cgagaggaag ctccccataa gcatttgatc 720
tttgtgctta acaagtgtga tcttgttcct acgagtgtgg cggtaagtaa actctctgtt 780
cattcattcc taccctcgaa cctgttgcac aatacgatca tcacattaca tcttcatgct 840
ccttaa 846

<210> 4066
<211> 258
<212> DNA
<213> A.fumigatus

<400> 4066
agatcaggct taatgctgga attaggtccc tgtcgcatca agactggagg caatctcaca 60
gagagaaacc cttattcttg gacaagaaac tcatcgatga tatttgtcga ccagccggtg 120
ggaacagggc tttcatatgt ggattcttgc caggatatcc caacaacttc cgagattgct 180
gcggaagata tgtatatctt tctgcaaatc ttcatgacgg aatctttcct gaacgccgac 240
atattccctt tcacatag 258

<210> 4067
<211> 1128
<212> DNA
<213> A.fumigatus

<400> 4067
tctaatcgcg gatgcggcgg cctcgtggtg aagatcctct tcaatcacga ctcggcttca 60
ttcagcacaa tctggatgag aaacacctcc cgcgtagccg actcgctccc gcaccctcaa 120
gcccgcgctc tccaacgccc atcaggaagc accatcgcct cactctgtaa aacctacagt 180
ctccgccatg agaccatcga acttgacgca ggcagcgcct tccccctcgc aaccctgcac 240
ttcatcgact gtgaccccac cgcgcgcagc cccagcggga atgtgctgct gtatttccac 300
ggcggggggt acattacccc cctatctacc ggccacttca agttcgcgcg tgcagccgca 360
caaaggctca ccgcgaaatg cgtcctgctc gagtacaccc tcgcgccgga actcaagtac 420
ccgggccaac tggcgcaggc ggcggcggct ctgcggtacc tgttgcagca ccatgatgcc 480
gcggaggtaa cgatagcggg cgactctgcg ggtgggaacc tcgcgctggg cgtgctggcg 540
catctgcggg acccgcaccc gcttgttcgg cctgtctttg agggggatct gcgacagcag 600
gagcagaagc tctgcgcggt gctctgtgtc agtccgcgct gtgcgaatac gtgcgatgct 660
gagagctata cgtataatgc ttcgaaggat atcgttagta gggcgttgat ggaggtgttc 720
aattcgcact gggagcctgt gaaggaggag gtgtgggcga cgccgctggc tgggacgaag 780
gagttctggg ggtctgttcc tgcgaagaag gtgttgctcc tcgcgggcac ggacgaggtt 840
tatgtggatg atatccggcg gtttggggag ttgctcggtt cgtcgagtca ggctgccagc 900
accgagctgg tcctgtgtgc tgaagagaca catgcgcagg ctatccgtga cgtagcggtg 960
aataattggg atggtgtcat gctaaaggtt gctctcaact ggctacagaa tctggggacg 1020
ctaaatgacc ggggattacc gctgccacca aactcgaagg gagtttgcgc ggtatggaac 1080
gacactatca acgttatgac agattctgac acgcggcatg cccgttga 1128

<210> 4068
<211> 312
<212> DNA
<213> A.fumigatus

<400> 4068

ggcggaccac taacagcacc tcagctcctc tacaacggtc tctacttctc ccccgagcgt 60
gagttcctcg aggcttccat cactgcttcc cagaagaccg tcaacggaca ggtccgttgc 120
cgcgcctaca agggcagcat ctccattctc ggccgttcct ccgagactga gaagctgtac 180
gacatgtctg agtccagcat ggacgagatc ggtgactttg ctcccaccga gactaccggt 240
ttcattggcg tgtccgccat ccgcctgaag aagtacggcc agatgaagca ggccaacggc 300
gagaagatgt aa 312

<210> 4069
<211> 222
<212> DNA
<213> A.fumigatus

<400> 4069
cctgcgcatg tgtctcttca gcacacagga ccagctcggt gctggcagcc tgactcgacg 60
aaccgagcaa ctccccaaac cgccggatat catccacata aacctcgtcc gtgcccgcga 120
ggagcaacac cttcttcgca ggaacagacc cccagaactc cttcgtccca gccagcggcg 180
tcgcccacac ctcctccttc acaggctccc agtgcgaatt ga 222

<210> 4070
<211> 408
<212> DNA
<213> A.fumigatus

<400> 4070
caggggtgca aggtcggaaa agatggaaag gtcttttcgt atggcaactc tttctatacc 60
ggacagatcc ccagctcggc tgcattgacc aagcgtgact tctccgaccc tgtgactgct 120
ctcaagggaa ctacaaatac actacagctg cccatcactg tggatagcgc gtcgtccgag 180
agcacagagg agaaggagtc gtatgttttc aaaggggtct ctggcactgt ctctgatccc 240
aaagccaaac tggtatactt tgtcaaagac gatggaaccc tcgccttggc atggagagtt 300
gagaccgaca ttgatagcaa ctggctgttg acctacatcg atgccaagag cggcgaggag 360
atccacggtg tggtggacta tgttgctgaa gccgactacc aagtatag 408

<210> 4071
<211> 375
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (203)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4071
ctgacatggt gcagcgcatg gggcattaat gacccaacag agggcgagcg gacggtgatc 60
aaggatcctt gggactcggt cgcgtcggaa ttcacctgga tcagtgatgg cagcacaaat 120
tataccactt cgcgcggcaa caacggcatc gcgcaatcca ctcccagcgg tgggtcgagc 180
tacctgaaca actacccccc tancagctcg agcctgtcat tcaagtatcc ctatagtgtg 240
agctcgcccc cgccatcatc ctacctcgac tcctcgatcc tccagctctc ctacgcggac 300
aatttctacc ctgatctgcc ttaccccctg tgcttccccg acgaggccgg taccttcgag 360
ttctacactc gcggc 375

<210> 4072
<211> 519
<212> DNA
<213> A.fumigatus

<400> 4072
atccggcatc gttcttcgcc agatcacatc ctcaacatgc gcggccttct tctggctggg 60
gctcttgccc tacctgcttc tgtctttgcc catcccgctc accagtctta cggactcaat 120
cgtcgtactg ttgatctgaa tgctttccgc ttgaagtccc tggccaagta cgtcaatgcc 180
acagagaccg tcattgaggc cccgtcctcc tttgcccctt tcaagccgca aagctatgtg 240
gaggtggcga cgcaacatgt caagatgatt gcccctgatg cgactttccg cgtggtcgac 300
gatcactatg ttggtgacaa cggcgttgcc catgtccatt tccgccagac ggccaacggt 360
ctcgatatcg acaatgctga cttcaatgtc aacgtacgtt atgattcggt gccgtgtatc 420
tctcttgctg acaggggtgc aaggtcggaa aagatggaaa ggtcttttcg tatggcaact 480
ctttctatac cggacagatc cccagctcgg ctgcattga 519

<210> 4073
<211> 363
<212> DNA
<213> A.fumigatus

<400> 4073
tcgcggttcc ttccaggccg tgttgaagac ggtgggatcg ctaccggagc tgaggtgatc 60
aagacagagg aagagcagaa gatgttcgga ggtgtcgctg gagacgcctt tgatccctgc 120
taccaccagc tctgtgacga cgtaagcaat gtcaacctca ctgcctggga ggtgaatacc 180
aaggtacgag ttgatttctg tgtctacact cgaagacgat tgctgatatg tacacagctg 240
gtcgcacact cgattgccac gtacgctcgg tcattcgatg gcttcccgaa gaggatcaag 300
gtcgaatcta tgaagaaggg tgacgagcaa agaaagtatc atgggcactc tcttctgtac 360
tga 363

<210> 4074
<211> 909
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (3),(7),(60)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4074
ttnggtnacg tcgtcttccg agagcttgca tctaacaagt cattagacgg ccgttcggcn 60
tcatcctcgt ccgaggaacg caagtactgg ggcttcctcg tcttcatcaa ggtcctcggt 120
gaatgccccc tgcagctggc ttctgttgta ttcaccaaga acctcgttag gtgcctgacg 180
aaccagctcg ccgtcgagga ccgatacctg caccggatgg ccgtcaaggc cgccaaatcg 240
atccaggccc gcgttgcaaa ggatcccgaa ttcgccgcgg cgtctgtcat cgggctcatg 300
ggctcagccg gttccgtcac cttcgaccaa gccaccaaga cgaagacgat cgaaaagatc 360
gttgtcgagg caaacctcga cgcactgaag cagatcgtgc ctttctttga gaagctcatc 420
gcgagccggg gggcggacga tgccaaagca gcagcagcaa gccgacagtc tcttgccggt 480
ctgctcttgt ccattgtgag atcccgagct tcggcgaacg acgagtctca ggatggcctg 540
caagcagttc tggagcagat tctgttcacg tttgtgcggt tcggctattt cttgcccaag 600
gacgaggcgg ctgttcagcc ggccttgact caacagagcc aggagctttt ccggaacaga 660
atcagctcgt gtctgaacag tcttattgcc aacccaaagt atgccactac ccttccgtac 720
gctgttgtaa agaagatccg cgacgccgcc aagtcggaag agtatggaaa gttcattatc 780
aacatggacg agactctgcg tgactcggtc aagactgctt tcaagtcttt gaagaagctg 840
tccagcatgg taagtatcgc gacatttccg acagttccct ttgtactgac tgaaacagga 900
aaagaatga 909

<210> 4075
<211> 339
<212> DNA

<213> A.fumigatus

<400> 4075
ctgaaacagg aaaagaatga ggtctcaggc gtcgaggcgt tcaagcttct gtattcgatg 60
acaatcctgc aagtgtacaa tggtgatgcc gatgcagtgt ccatgcttga cgagcttgat 120
ttctgctata ccaagtttct gggcgacaag aaatcaaaag acgaggaagc ctccgatgct 180
tctgacgcgc tggtggaaat tcttctgagt ttcgcgtcga agcagtcaca actcttccgc 240
cgtatgagtg agcaggtatt cggcgctttt gctgacaagg tcaccgagaa tggcctggag 300
tcccttgtat ctgtatgtcc actccctcct gagatttag 339

<210> 4076
<211> 207
<212> DNA
<213> A.fumigatus

<400> 4076
actttgcgat gcttccggtt aaagatcacg gagctcgaat ttattcgcga tatacatgcc 60
ttcattgtct gtgaatccag ctatacccat cctgctctgt tcgatagtct ggatagattc 120
ggaataatgt gctcggtctg gtgtttgtgc aacttcttac ttcagatcaa tgtctttagt 180
atcctatatt tacctacaaa tgtttga 207

<210> 4077
<211> 564
<212> DNA
<213> A.fumigatus

<400> 4077
acaatgttca ttggcattcg cggcgtgctt gttcgatatg cgagttcggc cagtggcttt 60
acaaatctga accggagtct ttcgttaaag tccaactact ccatgcgaaa agcttcatgg 120
ggcggtcgaa gctcggtagc taacaaggag aacgagagtt tcccagagga agacgagaat 180
cagagcggag acgaaagtga tgctggtact gaacgtagga ccagctacac tggaacatac 240
acggacagca tgacatacgg aaccgagagc gtcgtctccg ccgatcgtag agtgagcgcg 300
gccagttcca cgaacatgcc cactgcagcc ccacactcca ttccagaaga ctctgaagat 360
gatgaacaac aagaggagga gcacggaacg gcggacgagg atgaggacga tgctcagacg 420
accaagggaa atgagtcggc ggatgatcag caggaaggag aaactggcgc agacggtgat 480
gatcttgtgt caacaaaaat ggtactctat ggacagcaca gtgacagtgg actcggtgcg 540
gagattgcaa gcgcagcggg ctaa 564

<210> 4078
<211> 183
<212> DNA
<213> A.fumigatus

<400> 4078
agcaacattg cttctgctcc cacaacaggt tccgatgcct ccattcctcc atcccaaccc 60
gtcgcgatca gacaggcgcg ctctaacaca cctttccgct ccgagtcgtc cgatgacaac 120
ccgctgacgc ctagaaacga ttcagggcct ctggcctttg atggcagagc tggcatgcca 180
tga 183

<210> 4079
<211> 183
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (10),(89)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4079
atcgggtatn tcgttcaagt tgacttggtc cagcataacc tttacacgga cgcgacaacc 60
cctttgcggg tcgtcaacaa gtatgaatnt acgccgcatc ccgtcagtta ttgctccgaa 120
gagtgcttcg tggcttggat tgcgttcgtc atcgtcgtct tcgactccca tcttaaggac 180
tga 183

<210> 4080
<211> 198
<212> DNA
<213> A.fumigatus

<400> 4080
cacgacgcca agctggtctg ggtggctcgt acagtattca ttcacttgcc catggttaaa 60
tatacccacc actcaatggc ggagggcaac atggagatgg aggtcattca ggttgatatt 120
gtctgcatgg atactgattg tggacattca ttcgtcgacg gtttgacatc ttttccaact 180
caaatttccg attcctga 198

<210> 4081
<211> 693
<212> DNA
<213> A.fumigatus

<400> 4081
ctcgaggatg ctgattctaa ccgcggtgct gcgaggcgat ctcgtgtggc aatcgatgca 60
actgctgagc attccgatac tgaaagaagc actaagggca ggtgcgctgt ctccatgcat 120
cagccgactc ctcttgcgct tccaggacgc cccaacttca gcaatgtcag ctcgccaaga 180
ggttctgctc accatcacgg ttccaagcag gcacagggtg cgcaacttca gacttcgagc 240
tcacatgtgc gcgacaaggg tggcccagtt catgcttcca ccccacagaa tcgtggtacc 300
agtgtgtaca ataagaagat cgacctgctc tccttcgatc cccttcttga ctacacgtcc 360
agcgatctga gccgttctgg tcaacagatt atctccgatc ccaaagagcg tgccaagcgt 420
gacgagttct tgcgtggtct acatgacatg tttgcagcta ctactgcgcc gggaaagacc 480
aacacggtgc ccgccgatac ggacgtcttc gccagtcagc ctcgcaccaa acgcgtgcaa 540
cccaagtctc gtcgcctgtt ccaggaccgt cctgccgctc ttaaatctgc tcctgatggt 600
ggtacggaga ccaacgcttt ggatgccgat cagattcgcc agcagagtgt ccgtatctac 660
aaccttgctg ctgacgccgt caaggacttc tga 693

<210> 4082
<211> 486
<212> DNA
<213> A.fumigatus

<400> 4082
ccccagttcc gcccatgttc ccccttcccg aggccggggc aggccttacc cagccgtaac 60
atcaaccccc tacaaggggg caaggcccaa gctggttttc ccccggtgtc accaacagcg 120
gttcttcccg gcgaaggctt ggactggatg aacactttcc tgcagtcctg caccgaatgc 180
ggcatcagcg ccctcgccgt gcaatggtac ggtaactccg ccgaggagtt caagaccttt 240
gtcaacaagg ccatctcgtt cgcttccgag aagggcctcg agagtgtctg gatcaccgag 300
tttgccctca gcaacgacat caacaccggc gcgttgtcca gcgagtccga gcagttcctc 360
accgaggttt tcccctggtt ggactcgcag cccatggtcg cccgctatgc ctacttcatg 420
tgtgcgaaca attacctcct cagcggaagt ggttttacgt ccactggaca tgtttatgtt 480
tcttag 486

<210> 4083

<211> 435
<212> DNA
<213> A.fumigatus

<400> 4083
ataacgcttg ccgtgcatcc ttccagcccc gtggtgaaga caatcatgtt ctgcacgctt 60
ttctcgcacg tcggattcgc cgtcaacgtc acgtcgattc tgctgtctat ctcaactatc 120
ttgggtggcg tgatgagcct gaacgtcaac gacgtcctgc aggccatcaa ccacctgtca 180
ccgatcaagt actcgatcgc caacctggcg ccgtacgcga tgcgcgacca gcatttcaca 240
tgcactgcgt cgcagctctt ggcgaacggg acctgcccga tccagaccgg gcagcaagtg 300
ctacagctgt acaatctaga caagaacgcg cccatgaacg tgatggcgct tggcatctgc 360
acgatcattt accggttggt ggcgtatgcg atgctcaagg tgatgcgcga gggattttgg 420
cgccgcctgc gctag 435

<210> 4084
<211> 273
<212> DNA
<213> A.fumigatus

<400> 4084
tggcagctgc ttgagaacga ggtcaactgc gtctctcagt gccccactga tgatacaact 60
gtcgttgact ggtcagaaac taaggccgct ctaccccgac tctgctattt gctaatcaac 120
aattttggct ctctgtgtca ttgtagtgat ctccacactg ctctggtcca atggcgactg 180
cgttatgatc cacctgtctg tgcgatttat gtccgtcagg acggcactcg cataatggag 240
aaatgcaccg tccgttctcg agaccaactt taa 273

<210> 4085
<211> 234
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14),(33),(65)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4085
cattccttcg gtcncggtca gcacttcaat ganatcaaac aacagacacc tatcaagcgg 60
cgtanccaat tgggaacagc catgcaagat ctcagtgtgt atagtgtgta tgcagcctgg 120
aacatccagt ccaagtgcac tatggaagta tggccttgtc ttgaagcaac tctgtcccaa 180
atacagctgg ctgcatcaag gacttgccat tggccaactg tcagactctc gtag 234

<210> 4086
<211> 207
<212> DNA
<213> A.fumigatus

<400> 4086
atattcaacg tatacaatgg cctagagctc ccgaattcgc aagatctcat tagcaaaaca 60
ctagaagtct tgagccttgt caacccttcc cggattgcct atgtggggtt cgtcaagctt 120
gtggcgcgag attccgctga ccgcaacttc actatttttg ccacttggca acccaccggt 180
gtcctgcgag agctcgctgt cctctag 207

<210> 4087
<211> 1464
<212> DNA

<213> A.fumigatus

<400> 4087
cgaaccatta aggaaggccc aaaacacagc catgggaaac ttttggctca agagggtttc 60
agcgatgttt taaccaagcc tcggcgtgag acacctctta agggtatatc ataccactcg 120
agtcacaaca cctctcggca aggagcttcg tctgctatcc cgtggtctca gcccgctgcc 180
gatgccagcg aatccaccgc tgtttttggt ggtctatcca ctccgaaggc gaagaagcag 240
gggtttttca agaagatttt cgaatcagcc aagaccggtg ccgctaatgc cagaagcagt 300
atcgctgtgg gaaacagtgg tggatcctat tcacgtacga aaggcagggc aatatctccg 360
attagacgtg acacgactcg cgacgcaggg actggcacgg tagactgggt gcaggttcga 420
cgtgatgtga atcgagcaag ctcgccgagc cgcaacgagc gcatcgaaag ggccgagcgc 480
tgccagatga tggaccaccc cgtaatctac gcggtggagg agcttcacga gactgccgaa 540
ggtgatgaaa gtattgacgg gctgccgatc agcgagccca ccaacttcaa cacggtcaac 600
ttgaacctcg tcgataaaag tgctcggttt gtcaacagcc ttccaccgat gaccaacccc 660
atgagccttg cgcagggcta tgtgtgccga ccttacaaga gcgatgtgca gagattgcgg 720
gctatcttca cttgggtcag tgaaaagatt gcctgggacg agcccgtaga agagatcgga 780
attgacttga aacggattct gcaaacgaga cgagggagcc ctcaggaagt cgcgtttctc 840
gtcaaggaaa tgtgtgcggc agtcggtctt catgctgaag tagtgcaagg gtttctcaaa 900
acacccggtg aattgttcga gctggacagt ctttcgcgac caaaccactg gtggaataca 960
gtcttggtgg atggcgaatg gcgcgttatc gactgtgcac tagcaaaccc gaccaacccc 1020
cgaaggaacc agttcgtaac cagtggctcg tcaacagccg aaagctggta tttcttggca 1080
cgtccgcttg agatctgcta tactcatgtc ccattgtatc ctgaggagca acacatatgt 1140
ccacccatct ctcccgatgt gttgctagcc cttcatacag cgtgcccacc ttatttcaag 1200
ttgaacctgc agtttccaga ctatgatacc agcctgatca gaattgaagg tctggagctt 1260
ctgcaaatcc gccttctcgt gccaccggac gtggaatgtg ccgcagaagt cgaggcgccc 1320
gctttcgctc gtgatgccga cggtgacttc tttgaaagtg gggaggttat tcgcaagcgc 1380
gccctggtgc agccagactg ggtcggcggt cagaagcgct tcactgtcaa agctgtttgt 1440
tttctatcag aggcagcggc cagg 1464

<210> 4088
<211> 240
<212> DNA
<213> A.fumigatus

<400> 4088
ccgcagccat caacccaaga tttgaccagc aggatttcgg gagtcaccag cgtagaagcg 60
ggtacgcaaa taaagcaagt gggaaaggat gagcagccga tcgatttgag cgatgaaaag 120
aacgtggaaa tgttcatgaa gcacttcagt ggatggagtc agaggatgcg agaagacgcg 180
gctactatga acctgtacgg ttatgtcgat ttaccaaagg gtgaagcata tagaggatag 240

<210> 4089
<211> 1125
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (33)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4089
aaaattagca aacgcacggc acccaacagt ttntacaaag ccgccatgac cgagcggatg 60
tcttcctggt cacccaccga tcttaaggca cggggtgtcc ccagccggga gttgatcaat 120
ctctacaagc gatggggtga aggcggttac ggactcatat ctactggtaa catcatgatc 180
gcttacgacc ggctggaagc ccccggcaac cccattattg acctggagaa tcccttccac 240
ggggaacgtt tcgacgcctt ccgcgagctg gcctcgcaag ccaagagaca tggcagcctg 300

atcatcggcc aggtcagtca tccgggccgg caaacagagg aaagactcca gcccaaccct 360
gtctccgcca gcgacgttca gctcgacaag gagatcatgg ggatgcaatt tgccaagcca 420
cacgctgcgt ccaaggacga gatcacagac ttcatccggc ggtggacgca tgccgctgtg 480
tacctgcaca aggctggcta tgatggtatc cagttgcacg gcgcgcatgg gtaccttctc 540
gcacagtttc tgtcgcagac gacgaatcgc cgcaccgatg agtacggcgg gagtctggag 600
aaccgcgcgc ggctgattgt ggagatcgcg cagtctattc ggaaggagct acctgcgtcg 660
actggtttca tcctgggcat caaaatcaac tcggttgagt tccaagctgg aggtttcacc 720
gcggacgaag cacgcgagct gtgccagatt ttagaggaga acgagtttga ttttgtcgag 780
ttgtcagggg gcacatatga gtttattgcg tttagccaca agagagactc caccaagcag 840
cgggagtcgt tctttttgga atttgcatcc ctaatcacgc cagctctgag taagacgaag 900
agctatgtga ccggtggctt gcgtacagcg tccggtatgg tgggcgcctt ggagacggtg 960
gatggcgttg gactcgctcg acccgcatgc caggagatcc gtttgccgcg tgacatcctg 1020
gatggcaaag tgaccgcagc catcaaccca agatttgacc agcaggattt cgggagtcac 1080
cagcgtagaa gcgggtacgc aaataaagca agtgggaaag gatga 1125

<210> 4090
<211> 579
<212> DNA
<213> A.fumigatus

<400> 4090
ctccttccga atagactgcg cgatctccac aatcagccgc gcgcggttct ccagactccc 60
gccgtactca tcggtgcggc gattcgtcgt ctgcgacaga aactgtgcga gaaggtaccc 120
atgcgcgccg tgcaactgga taccatcata gccagccttg tgcaggtaca cagcggcatg 180
cgtccaccgc cggatgaagt ctgtgatctc gtccttggac gcagcgtgtg gcttggcaaa 240
ttgcatcccc atgatctcct tgtcgagctg aacgtcgctg gcggagacag ggttgggctg 300
gagtctttcc tctgtttgcc ggcccggatg actgacctgg ccgatgatca ggctgccatg 360
tctcttggct tgcgaggcca gctcgcggaa ggcgtcgaaa cgttccccgt ggaagggatt 420
ctccaggtca ataatggggt tgccgggggc ttccagccgg tcgtaagcga tcatgatgtt 480
accagtagat atgagtccgt aaccgccttc accccatcgc ttgtagagat tgatcaactc 540
ccggctgggg acaccccgtg ccttaagatc ggtgggtga 579

<210> 4091
<211> 477
<212> DNA
<213> A.fumigatus

<400> 4091
tcccaccacc aaaacaagac gaggaaaata agagggaaaa gcaacatgcc atctgcacaa 60
ccaccagcgt cccttgcctc cagctcctcc gaaccctcct attctcccat tcccgccagc 120
gcaagcacaa cagcagagga cggacatact cgctcctcca ccacccccac cggcccctca 180
tcctccaagc aagcggccgc ctcaggcaca gcgacagacc gggataaacc acgcctcacg 240
gaacaagaaa agaaaaacaa ccacatcgcc tcggagcaga agcgacgcgc cgcgattaga 300
gagggcttcg atcggcttac ggagctggtt ccagggctgg aagggcaggg ccggagcgag 360
agcgtcgtgc ttcgcaagac agtggatttc atacacatga agctacagga gaggcaggag 420
ctaattgctg agatcgagag cagaggcgga catatcgatg atgcgtttcg aacgtga 477

<210> 4092
<211> 195
<212> DNA
<213> A.fumigatus

<400> 4092
ccttactaca aacctctctc ttcttccttc aatgacactg cttctaaaca gcttcctctt 60
tcctattcct ctttcctact agacttgtat ttctctatta tcctgctcgc agttactact 120
caatcataca tcgccgcgtc aatccataac tgtcttcacc gcggggctgg aaggagccgt 180

ctattgaaag accat 195

<210> 4093
<211> 513
<212> DNA
<213> A.fumigatus

<400> 4093
aagggatact cggagtgctg ggcgaacggc atctaccact gtctcttctg cgacggctac 60
gaggaacgtg gccaggagac cgtgggtgtc ctggctctgg ggcccatcgc gaaccctgcg 120
cgcgctctgc atttggctcg catggccctc cggctttccg agtccgtcac catctacacg 180
aatggcaatg agcagctggc caaggagatc cagcaggccg ccgaggaatc ccctgtcggt 240
gcctcgggac tgaaattcga ggctcgaccc atccggcgat tcgaaaaggg cgatgtcgcc 300
aagaccgtca ttgttcatct tggggagtcg gagtcgaaaa cggagggctt tttggtacgt 360
tgtccagttt actcgacaga gatatccttg ctaaccgcgg caaaccgctc aggtgtacaa 420
cccccaaacg gaggtcaatg gaccgtttgc caagcagctc gccttgaata tgacagaagg 480
aggggatatc ctgaccacgc cgcccttcta tga 513

<210> 4094
<211> 276
<212> DNA
<213> A.fumigatus

<400> 4094
ccgcggcaaa ccgctcaggt gtacaacccc caaacggagg tcaatggacc gtttgccaag 60
cagctcgcct tgaatatgac agaaggaggg gatatcctga ccacgccgcc cttctatgag 120
accagtgtgc ccggagtatt tgccgtgggg gattgtgcca cgccgttaaa ggccgtcacg 180
cccgcggtgt cgatgggatc tttggccgct ggcggtctcg tggctcagct gcaggctcag 240
gcattgccgg agtttcgtct cgatcaggag ctatag 276

<210> 4095
<211> 357
<212> DNA
<213> A.fumigatus

<400> 4095
caccccaag acggcagaca gatcttcaac gacagcaaca gcaccatggc aacctccacc 60
ccctccttcg aatacaacat ctccttcacg acccccgcca acccaccgtc ctgtgagccc 120
aagctcacgg caaaggatct ttggaccggc atcgcccgag tggcagatgc tccccaggaa 180
tatgcgccgt acgtctccaa gtgcgaggtg ctctcgcgca acggccacgc tctcgagcgc 240
aaactgacca tggccaacgg ggcggtccac aagagcgacg gggagatcat gtatcaagat 300
gtgtggattg cagatcgttt actggtagtt ttgtctcttc cagcagtcct tccacca 357

<210> 4096
<211> 774
<212> DNA
<213> A.fumigatus

<400> 4096
caacagacta ccttcgtcat gcagaccagg ccccttcga taaacgccat ctggcatctc 60
gttcttccgc tgctggctac ctcggccaca gcagctccat accaaacccg catcctcgcc 120
acggggacta cctttaatgc tccagacccc tacggccct ggtccttgac tccctctgcc 180
aacaaacccg gtccagatct ggcctacatc aaaaccagca acaccggcac cggcaaggtg 240
gaagtccacc tcgcctccag ggcctccaac taccagaccc gcacgctgga ggtgggcacg 300
actttctttc ccgaagacaa tggcgtctgg cagctgattg atgccgacgg tgatggccgt 360
gatgacctcg tgtacatcaa gacccgcaac acaggcaccg gccgagtgga ggtgcacatt 420

gccacggcgg cgtccaactt ccagacccgc atcaaggacg tcggcacgac tttcttgccc 480
gaagacaacg ggacctggca gatggccgac tttgacggcg atggcatcct cgacctgatc 540
tacatcaaga ctcgcaatac cggaaccgga cgggtagagg tgcatgtcgc ctctggcgca 600
tcgaactacc agactcgcat ccaggaagtc ggcacgacct tctaccccga ggacaacgga 660
gtgtggcaga tgattgattt caacagagat gggaagctgg acctggtgta tatcaagacc 720
cggaacacgg ggaccggccg tgtggaggtc catgttgcgt ccggggcgtc aaca 774

<210> 4097
<211> 507
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (16),(158)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4097
atgagcatcc ggactntcaa cccggagacc gttcccatcc tgctggattt cgatacaggc 60
gattgggttc acttttttcat taccaacaat ataaccttcg aaaaggtgca tttcccgcgc 120
aatctgaccc cggtcatgca tcggatgcac ttgcacgngc atgactttgc cattctcgct 180
cagggcagag gcgagtttga cccgagcata gtcccgaagc tggataatct tccccgccgc 240
gacgtggtga acgtcgatac tggcagctat gtctggattg ccttccaggt caacaacccg 300
ggggcatggc tgctgcattg ccacatcgcc ttccatgtca gtagtgggct ctccttgcag 360
ttcatcgagc agcccaagaa ggtcaagccg ctcatggagg cggccggtgt gttgggggag 420
tttcacgatc gatgcgcgaa atggacagaa tattacgaca gcgtgaacat ccctgataac 480
cataccatcg acgactcggg catctag 507

<210> 4098
<211> 1281
<212> DNA
<213> A.fumigatus

<400> 4098
ctattcctct tgtcaaaggg taatgggctg atgactcccc aagacaagaa cttcatcacg 60
cggattcaat tgcaacagct ggtggcggcc gcaggtaatg ttgcggatac ggacttggag 120
gctgtcttag cggaggactt ttactaccag gtttacagcc agattcgtgg tgcgcctcgg 180
cagcatccgc atcagcctct tggccacttt gcgcagacct acctgcttca gactggtaac 240
cgccttggtg gccatggtcg aaggaatctc cagagtgccg acaaccatat gcaaaggatg 300
cagcagcagg ttcagcgtgc agttgaagcg gcgaaagcga aaccgaagaa caagcagttg 360
atcatcgagg gcagtctggg caagatctct ttcagcaatg ccaaagcgcc gaagccaata 420
ctcaacatca agcgccccga gacctcagac ggagccaagg ccgccaagaa gcaaccaacg 480
gacctgagcc ccagcgatcg gaagtctata ctgatgaata ttgaaaatgt gtacagtacc 540
ttgatggaga tggaagatat ggagcgtacc atgcctcctc tgcctgacga gaatgacgct 600
gaagccatcc agaagcactt ggaatggcgc cagaagatcc gttccttgaa ccaaaagttg 660
tggcaagaac tgaaggtcat ggagcctatt gttcctaaca ctgacactcc acatccattt 720
attgctttcc tgtcttatcc caagggcaag aaggctattc cacgcatttt ccgtcacatt 780
gaccaagaac agcgagtcac aatccttaca atgatcgttg tccacttgga caccttggat 840
gtggttcgaa gcgcacagcc tattccaggc gagaaccagc cttcgctcgc ggttagagaa 900
gccattgacc tgttctctca ggccgttatg cccagcctcc tgggatatgt gaacgaggcg 960
ccgttcaaca tcattattgg tcttctgggt cttgtgattg cgcagactca cgtgcagcta 1020
gtggccagga ctcgcattgg tttgggaata ttgactatgt tgctcagccg tgcagaaatt 1080
gtaaaggagg ctgggcaggc cgcggaacgt gactggcaac aatgggttga gaaattcaac 1140
gtcctgttcg acacactcga gccaatcttt ggcgagattt tccccgcctc gattaacgct 1200
ggcgacgata tgtatgtatg gcagtttttg gcagcgggtc ttcaccacgg ggctggaagg 1260
atccacgggg tgcgaaagtc t 1281

<210> 4099
<211> 660
<212> DNA
<213> A.fumigatus

<400> 4099
aggatgaccg gggtcttttg gaccattcct tttttcaggt ttcacccggc gacaaaatca 60
acaggttttg ggagtgccga gatggataac aaaattgagg cggatggcaa acccagcaca 120
tggaagaagc acagcaggat acgcatcgat gggctaaaca tcgatcatct caatcggggg 180
gtacaaggcc ccttttcttg gatatatgag ggaaccgttg atatcgttgc cgacatcatg 240
tttccagcgg aaaatgatga aagtctggcg caagtaatgg ccggcctcta cgaccggtta 300
gaagcaaccg tcatatccaa ccaatatcag gaaccagact cacgccgtca acctggaatg 360
gatggtactg cttcgagcga cgataaacgc tttttagtca ctgatctacg gcttcagttg 420
aacaacgtta gggcagtggt gcctttgttt aaccgagatc tttcgtacat aaacaacgcg 480
ctgatacgcc ccattgtggc ctacatcaat tcgagacgaa ctttcattcc catccattgc 540
cgtcttgtca aacgacttgc cgattttgac ggtagttgga cgacctttga cagcgggctc 600
atggatgacc tttcggccgc ggtaagcttc ccacgcgcga ttggtattca tacatactaa 660

<210> 4100
<211> 183
<212> DNA
<213> A.fumigatus

<400> 4100
aacaattacc gtttagagca aaccctcgct ttctccattt cgatcttgtt accagtgtcc 60
catctctctg tgttgagctc tgagattcta cagctcttag tggccaagat ccttagaaag 120
aagacacagt gtaagcgtca aaactataca cagatgccag tgctgtttca gtattatcag 180
taa 183

<210> 4101
<211> 195
<212> DNA
<213> A.fumigatus

<400> 4101
ccggtgcgcg ctccaagttc atcgtggtgg attataggga gagttatctc tcatgatgta 60
gacctcccca acgaggacgg tacaacctac agccatggaa atggcaatga tgggaaggtt 120
cactcgcgca aagtcaaggc tgcggacgcg aatatgcttt ctcgcaagaa tatcccgcca 180
aagcagaccg gctaa 195

<210> 4102
<211> 267
<212> DNA
<213> A.fumigatus

<400> 4102
gtccctttgc cgcaaaggtg tacaggtgtt cgcaggagac atttccccac agttacagcg 60
gttgtgtcac acatgccatt tgcacttgta cctttctcct tgcccatgtt gttcttcgaa 120
caagccttag tcaccaaggg gtgggtcccc gtcttcgctt acggatggga ccattgggtg 180
gacaagacgg ggaccgtcgg agctattgga ggcatgggct ttgtttcggt gattctatgt 240
aacgtgagtt gcgaagctct acattga 267

<210> 4103
<211> 393
<212> DNA

<213> A.fumigatus

<400> 4103
cgcagtagga cttgctcaac taatctgtca cgtttactcc agtttgctgg caccaatatc 60
ggtaccacca ttctcctttc ccgggtcata caagcatgga agcagatcaa cgacgagcac 120
ggcaccttca tcagtgaccg gacattttgg gcgaccgtgt acagtatggc gatcggagtc 180
aactacggtg cctttagcac cgcttttagt gcatcgttag ccggtctgct ttggcgggat 240
attcttgcga gaaagcatat tcgcgtccgc agccttgact ttgcgcgagt gaaccttccc 300
atcattgcca tttccatggc tgtaggttgt accgtcctcg ttggggaggt ctacatcatg 360
agagataact ctccctataa tccaccacga tga 393

<210> 4104
<211> 189
<212> DNA
<213> A.fumigatus

<400> 4104
ctgcgacttg ctggtatggt taaattaagt ttcgcggtcg cagtccatca ctcagacagc 60
tttaaacatt cgaaccgtat tcctaataac agtcagatgt attcctgcga aataacccct 120
tgggttcctg taagagacgg tgagttgatg atggcatata acggctggaa tcccatggaa 180
cagccatga 189

<210> 4105
<211> 519
<212> DNA
<213> A.fumigatus

<400> 4105
cggtggaata caataatgac gtttgtacgc tttcgcaaat atatatacgc aggacgtgca 60
atgctctctc gagacgacaa agtaaaaacc caaaaccaga ccaacatgta ttctcgcaag 120
cttctgaact tccctctgcg acactttgcg acgcgcactc caatcctccg ctcggcgcgg 180
ccccaccagc catggcagac caggacaatg tctttgatgc aacggggcca aagacaccct 240
ggcgctggct ttccctcctt gtctcgagcg cttaccgacc tcgagtcctt cctgagtcgc 300
cccgtgggca gccatgatct actgggccaa tatcctcggt ttgacgtccg cgagaccaaa 360
gacagttatc gtctcgacgg agagcttccg ggagtggaca agaaagacat tgatattgaa 420
ctgagcgacg acaacgtcct gaccatcaag ggacgctcgg agcgagagtc aacatcggaa 480
gatcccgacc aatcctgtct tcaccacggg ggtcgaagc 519

<210> 4106
<211> 207
<212> DNA
<213> A.fumigatus

<400> 4106
ggaagcagtc aacgtggagc aggctttcga gggtatgttt ttttttttt ttttggcttg 60
aacatgaaca gagaacgcta tgctaatatg ctgaaagtca tcgcccgaag cgccctggct 120
caagaagagg ctgaggagtt caacggcgaa ttcagcgatc ccatcaacat ccacctcgat 180
agtgaccgtg atggttgtgc ttgttga 207

<210> 4107
<211> 213
<212> DNA
<213> A.fumigatus

<400> 4107
atctgggata ctgcgggtca agagcgattt cagtctttag gtgttgcatt ctaccggggt 60

gcggattgtt gtgttctggt atacgacgtg aataattcca agagcttcga ggctctcgac 120
agttggcgcg atgaattcct catccaagtt agcccccgcg acccggagag ctttcctttc 180
gtacgatccc acctgcccct aactgacctc tga 213

<210> 4108
<211> 210
<212> DNA
<213> A.fumigatus

<400> 4108
tgtgcaaacg ggcagatggt aaccattttg caggttgtga tcggcaacaa gattgatgtg 60
gaggaaagca agcggatgat tttttcgaaa cgcgccatga ctttttgcca atccaagggc 120
aacatccctt acttcgagac aagcgctaag gaagcagtca acgtggagca ggctttcgag 180
ggtatgtttt ttttttttt tttggcttga 210

<210> 4109
<211> 1113
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1105),(1110)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4109
atttcgccag atccacgagc attcagggta agttcaattc cgtccttgtg gctaggtata 60
ttgctagtca gccgctccag ggcggttttc gctgcttcgt ggattgtaat tgatcattct 120
cttgtcccct ccttcagatg gcacgaacat gatcccctcg agctcgtgga ttccgtttac 180
acatgcattg aagaagcgat gaagactttc ctggctctag gccatagcaa atcagatatt 240
gaagccattg ggattaccag tcaacgagag acaacacttt gctgggattg ggaaaccggc 300
gagccgttac acaacgcgat cgcatggcct gataccagaa ccaagaatct ggttcgtgag 360
ctcaaagagc aagaggggtc ggatgaacta ccggctatct gcggtctacc tctctccaca 420
taccttctt ctgtctcact agtgtggctt cttcgccata gccccaaagt taagcaggct 480
tatgacgaag gacgacttgc ttttggaact gttgactcgt ggcttctgta caacctcaac 540
ggcgggccgc aagctgggcg tcatgtcacc gacgttacca atgcatccag aacgatgttc 600
atgaatctcg aagccctgca atatgatgat agactgctca acttctttgg tatcgacaag 660
acaaagatca ggctccccaa gattcttccc tcgtcagatc ctgacggcta tggatacgtc 720
cggtttggac ctcttgacgg aataccgatc acgagttgct tgggcgatca gtccgcagct 780
ttagtcggtc actgcgcctt tacaccaggc acagcgaaga acacatatgg caccggttgc 840
ttcctgctct acaacgtcgg tgagaaaccc gtaatttcga agcacggctt gcttgccact 900
gttggcttcc aactgggtaa aaatcgaaag ccggtgtacg cccttgaagg aagtgttgcc 960
gtcgccggaa gtggtatttc cttcctcatg aacaacctcg ggttcttccg tgattcgcgc 1020
aaagttagtg atcttgccgc tactgttccc gacagcggag gttgcgtttt tgtcactgcg 1080
tcttcaccag ccaggggcga aggancatgn gta 1113

<210> 4110
<211> 273
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (69)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4110
ggcacaaggc ccaggccctt cgatctgacc gagaatgatt ttgctgtcaa agagcaacat 60
gcgcacatng agatttgcgc atctcaatcg catgacggca accgctcgct actgcaaaat 120
gaaaatcgcc gaggcgacaa cctgaaagac cgcttcattg gtgccatcga tcagggcacc 180
acgagttcac gatttattat cttcgattgc acaggtgttc ctgtggccaa gtatcagact 240
gaatttcgcc agatccacga gcattcaggg taa 273

<210> 4111
<211> 303
<212> DNA
<213> A.fumigatus

<400> 4111
agacgcagtg acaaaaacgc aacctccgct gtcgggaaca gtagcggcaa gatcactaac 60
tttgcgcgaa tcacggaaga acccgaggtt gttcatgagg aaggaaatac cacttccggc 120
gacggcaaca cttccttcaa gggcgtacac cggctttcga tttttaccca gttggaagcc 180
aacagtggca agcaagccgt gcttcgaaat tacgggtttc tcaccgacgt tgtagagcag 240
gaagcaaccg gtgccatatg tgttcttcgc tgtgcctggt gtaaaggcgc agtgaccgac 300
taa 303

<210> 4112
<211> 264
<212> DNA
<213> A.fumigatus

<400> 4112
agcatgtggg ccggggcgtt tctcaaagca caagaaccat caagtcgaga tattgcgtgc 60
tcgggtcggg catgtcttat aaatcgtcgt ttcctacaat gtagtcagtt tctttgcaat 120
ccgaatagga taccactagc attgcagtca attgacccgt attcgatctt ttgtgaggtt 180
atagtcaggt cgaacaagag agaaaggaga ggacagtgta gaaagccaat cgcaccatgg 240
cccccgggat acaagactcg ctga 264

<210> 4113
<211> 213
<212> DNA
<213> A.fumigatus

<400> 4113
cctacagtgg tgaagacttg gtattccaaa tataacgagg tgaaagataa caacagtgcg 60
tggtcggagt tagggaatca agaagttttc ttttggaaaa taactactat caagaatggt 120
aatctctcag tctcagttaa cgtgctgcga atagaaaagt ctcacaactg cacagctgcg 180
gcacgcgtgg agatttggaa ggacgaggga tga 213

<210> 4114
<211> 183
<212> DNA
<213> A.fumigatus

<400> 4114
ctagtaaagg tgtattgtat aagaaaggaa tctaaaggga ataatactat tatcttcgca 60
tgtttacaag aaattaatag taagatagaa gccatggcta ttaaagataa gtatctattt 120
ctctcccctc tttatacgct tatttatcgt cttaataaaa ctttaaagct attaaagggc 180
tag 183

<210> 4115
<211> 228

<212> DNA
<213> A.fumigatus

<400> 4115
agcattttct gtacgggacg tgcaatatgc ttcggcttcg tggcccagaa gcccatctat 60
ctggctctgg gcggtcattt ttcctcacag tacgaggctt tgagatttgt cgagctctca 120
tatacccaga acctactttt ctttgccggc cggaatggat gttttcacaa ggaggatctg 180
ggacgagcat gccaacaacg actggcaccc aaaagaatca ttgtttga 228

<210> 4116
<211> 195
<212> DNA
<213> A.fumigatus

<400> 4116
tcatccgaca ttgccagaga attctcatcc tacaatcctg atcaagactc ttatcctgaa 60
gtcgagtact ccgaagttat gtctgacgac gccgcattgt taaggtggtt tgatgagatt 120
gtgagttcct ccttcactca aggcatgctc aacagctcac accaatcaag tacaaatggg 180
gtttctgttt tgtga 195

<210> 4117
<211> 549
<212> DNA
<213> A.fumigatus

<400> 4117
cgatgtgtat gttccccctt caacctgcgt cgaccatcac tgtggcgaca cgagactgac 60
ggtaacagtg cctacccaac ctacaccgat cgtcccggca tgcccgtggt cgccaagctc 120
cccaatggca agtacatcta cacctacgaa tatggctcct tcttcggcac cgacagctac 180
tctttccccg tctactaccg tatctcatcc gacccggaga acttcctgtc ggctcctcac 240
cagcgcctgg tcacgaccac gggctatgtc cccacctcgt cgccgtatgt tgtctggacc 300
ccgtacggcg gcgtcaacgg caccatcatc gtgagcgcat attcctccag cagcgtgttc 360
atcaaccagg cgctgggaga gggcccatgg agggagatcc cgactgggga gccgaacgcg 420
tatacacggt cgctgcgggt tctgaagaag gacccaaaga tgatcctgat taatggcgct 480
ggggagctga atggagagaa caacaaggtt actgtgacct tgctgaacct ggaggaagca 540
cttcgttag 549

<210> 4118
<211> 537
<212> DNA
<213> A.fumigatus

<400> 4118
ccacggggtg ggagcccttt cctgaaggtt tcagtaagtt tccgtgggag taaacatatc 60
gttccagtcc agtttctaac catccgtgac agtaatggca agttgatctg ctactactcc 120
gaccagagag ccaacgccac ccacggccag aagatggtcc accaggtttc gacggatctg 180
aagaactggg atcctgtcgt tgacgatgtg tatgttcccc cttcaacctg cgtcgaccat 240
cactgtggcg acacgagact gacggtaaca gtgcctaccc aacctacacc gatcgtcccg 300
gcatgcccgt ggtcgccaag ctccccaatg gcaagtacat ctacacctac gaatatggct 360
ccttcttcgg caccgacagc tactctttcc ccgtctacta ccgtatctca tccgacccgg 420
agaacttcct gtcggctcct caccagcgcc tggtcacgac cacgggctat gtccccacct 480
cgtcgccgta tgttgtctgg accccgtacg gcggcgtcaa cggcaccatc atcgtga 537

<210> 4119
<211> 894
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (100),(107),(116),(320)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4119
gttgaaacca aatggacctt cctttggcgg agtttgtgtt caatgacatt tcatgcgcta 60
acaaggagta tcaattctgg tattcatgcg gagatgcggn tgggggntgg atattntggt 120
ttcctgtttg gggaaccagc aatccaaatc tcgctcgata aatgtgaaga tctgatggat 180
agcttgatcg aatgtgccga ggaccaagct gatctcttgg cggaacacgc cgtggaggtt 240
tcggatgtga tgttactgcc ttcgtacgag gaagttaccc gtggatgtca gacggtatgg 300
acttctctgg ccgacgtccn tgagtttggg agccttgaat atgagctcga tcgcgctgtt 360
gacagactta tctgcatcac cacaatattg cggaatcttt cgttcactga gtcaaacttt 420
gggttactat caaccgcccc cgttgtacag ttcatatcaa ccattatccg ctatttaggg 480
actcgaaaca tgctgtttcg aacccatcag aacacattgg atttcatgaa ggacgctgtc 540
atctatttga gcaatttggc acatgtgata cagttaccaa gcaaagagga agccctttgt 600
ctattgaact tcctattgtc ttttgctccc tttccacctc caacattggg cacggacggc 660
gtcatgttta cctcttacaa tgcctcgatt cacaaataca cacccgccgc cgtcgacagc 720
ttggctaagc tcctggccag agatgacccc aacaggacat tctttaaagc gatattctcc 780
ggtgatggag cgcccggttc gcagcatgaa ttgctgaccc gtgctttcgg actagctatt 840
tgtccagtcc ctggtgtcca ccacaggggg cgaaaggtcc gcgctaagcg ttag 894

<210> 4120
<211> 789
<212> DNA
<213> A.fumigatus

<400> 4120
gatgtcggcc aatttacttg gattccgatt cccatagtcg ggggtcgccc aatcaacctg 60
gtccagttgt atgcgacgat catgaagctg ggtgggtcaa agaaggtaag cgcttcaaat 120
atgtggcggg tagtagcaca acaacttcag tttcttccga tgcaatttca tatggctgta 180
caggagattc gggagcacta tcaaaggaac ctcgctgcgt acgaacaggc tttcctcagc 240
acgcaacaga agcagtttgc cgatcaaatg cagcaaaact cactgccgcg acagccaagc 300
gattcttcgg ctgtccagtt tcagtcacca acagtcaaac aggcccaggg gttcgaagta 360
cctcaaccag ttggtgcctc tcctggtagc atgtcggtag caaacaacgc gcaacaaagc 420
cttccaaatg gcttcgcgac cccaactcaa gtcaaagcgt cgaacaaaca acaacagcat 480
cgactaagtg tatcccgcca gtctcagcct ccagcaaccc cgcaggattg tactggccaa 540
ttaccaaacc aatcgcctgc tcagtcaaca aaacctctag ggggaacacc gggaaagtcg 600
gccaagtcat tcgagcaacc ctctgatcaa cctttgaaac atccgataca agatcctttc 660
aaaccaatgg ttttgcctga gagcaactta cacggtccga tagttttgga tgaaatgtac 720
cagcttgggg aagaaattac taggttgaaa ccaaatggac cttcctttgg cggagtttgt 780
gttcaatga 789

<210> 4121
<211> 480
<212> DNA
<213> A.fumigatus

<400> 4121
acatcaagtg ggaaggccgg ccccaagcgt gctgacaaga gcaacggatt tgaccttctc 60
tgctctggac aaaccccccg taccgaagtc gagaaggccg agtacgagcg cgtcttcgag 120
gaagtccctg ctcctttcac ccaagaggag cgtgacagct ggctgtccaa gatgggggag 180
gttgccgtct cgtccgatgc tttcgtaagt gatttgacca ctctatttcg cgtttttgta 240
gcttgtactg atgcagaatc aaacagttcc ccttcatcga caacgtgttc cgtgcagctc 300

gttcgggtgc caagtacatc gctgccccca gcggtagcca gaacgacggc cccgtctttg 360
agacggccga gaagcttggt atcgtcttcg tcgaacaggg cacccgtctg ttccaccact 420
aggtgtgagg agtttactac tgtcttagta ggcgatgata ccgcagtgat gtttgcgtag 480

<210> 4122
<211> 774
<212> DNA
<213> A.fumigatus

<400> 4122
catttcggac ctcaggataa tcgccgacct gtcaacggcg acggcttcgg tgtagggttc 60
tacactgacc ccaagctagg tccagagccc tgcatattca cctcgacact tccagcctgg 120
aactgtgaga acctggagcg tctggcttct aagacatgct cgaacctcat cttcgcgcat 180
gtccgtgcca cgacggaggg gacgctgtcc gacactaact gccacccatt ccagcatcag 240
actctgatgt ggatgcacaa tggcaacgtc ggcggctggc actacatcaa acggacgcta 300
gccgactcgc tcgcggacaa gtggtatctc ggcgtaaagg gcggcacaga tagtgaatgg 360
gcatttgcgc tattccttga ccttctggag aaggaagggg ttgatcccag ctcgaatccc 420
gggccagagg gctttggaca ggcactactg cggaaagtga tggtcaagac catcgcaaag 480
atcaatgagt tcatccgcga tattcccaag cgacataatg tttccggggt ggagacgcgc 540
agtttactca attttgctgt gacggacggc ataccgtgg tttgtacgcg ttatatcagc 600
agcaagactg acgagcccgc tagtctgtat ttctcgtcgg ggacgaaatg gaaagaaagg 660
aaggacaaag gccacttcaa gatggagcgc cacgacaaag gggcaaatat tgttttggtg 720
gctagtgagc ccacccttc gaacgccgtg agccaatcca ttcatccttt gtga 774

<210> 4123
<211> 705
<212> DNA
<213> A.fumigatus

<400> 4123
atcggggtgc tcacaatctc tcaacagtca acgaagagaa gcaccggcgg tcgtgtatgg 60
cccagttata tacgccaata caccggcgcg aacatatacg actacgcttg gtcaggtgcg 120
gtctgcgatg ctgttgtcgc aaacactgtc cgcaacggca tcaagcagaa tcaaatccct 180
acgtttctgg aggataacat ctatgtcagt gacataaccg gacagcccac cctaatcaat 240
ccaccagatg aaacagtcta cgccatctgg atcggcacca acgacatcgg ctacggaggc 300
tttctcaccg aagtacaacc agcaggaatg tctctgacgt acatgaccga ttgtgtctac 360
gcacaacttg atcgactgta cgcgataggc gcgcgagcct ttgtgcttat gaacatggcg 420
ccattagact tgactccctt gtatgctctt ccgcagaatg gcggctcctt ggacgcgcag 480
tattggaccg ataaagcggc ttatgactcc aatatcactc ggtccagcga gaaaatgcgc 540
cagtatgtga caatggtcaa tgccatatat gactaccaaa cgccatatga tgtcgtcgtc 600
gcgaatcgat acccgcatag cagatttgct gtttacgatg tgcatgcctt ggtgggattg 660
cgattttcca gtaccccacc cctaggctgt ggcaccttcg actga 705

<210> 4124
<211> 216
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (131),(173),(179),(204),(213)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4124
ttgaatgcta taggtgaagt tgatcaaata tttgcacctg gcaccgcact gcggctgatt 60
gagttcgtct ttcagctctc aggccgcacc atcatttccg acctcgtggt caaatttggg 120

ggagcgtgcc naaaccgcgg tacttttatc cccggttatt ccggaacggg cantggacna 180
aaggccctgc cagatctggg ttantgtggc acntaa 216

<210> 4125
<211> 195
<212> DNA
<213> A.fumigatus

<400> 4125
atctgctcca atgaaaataa tatgggttat gaacttcccg aatcgttcgg tccgcattct 60
catatgcgtg ttcccaacgt actcctagct tttactactt tttttggcaa tgtcctcaaa 120
aatagtgcct ataaccatat actccggcga aacaatgagt atggaaacat ggtaacttct 180
tgtcaatgtg gatga 195

<210> 4126
<211> 384
<212> DNA
<213> A.fumigatus

<400> 4126
agtgctctcg aacaggaagg agaaaaaatt atcgccatgc cgccccctgg attattcgga 60
cgtctgatcc agaataaacg cagactactc tgggagaaga gagagggggt ggacgccacc 120
ctcattgtgg ccgatgtgaa gtttggggtt catagcatga ttctcggggc ggaaagtcct 180
atactacaat cgcgctttca ggcaagcctt cgcaaatcag ggctacggga gattatcatc 240
gaagaagcgg atatacacac ggtgtggaga actctgatgc tcatatacct cgggtactac 300
tccacaagcc catgcccaaa agttgctacg tcaggtgcgt tcatatcctc gtcttcaacc 360
acgggggctg gaaggaaccg cgct 384

<210> 4127
<211> 564
<212> DNA
<213> A.fumigatus

<400> 4127
gcggtccggc agtcccgtgg tgaagacggt atgctcatcg cccataagtt ttgggagaat 60
gctatgaata ttttactttt ccaggagaaa gattcactct caccgcttgt tcggatacta 120
actaagctac gtcttcctca ggtcatctgc gagaaagttg agaagtcgga cattgctact 180
atcgacaaga agaagtacct agtacctgcg gaccttacag ttggccagtt tgtctatgtc 240
attcgcaagc gcatcaagct ctctcccgag aaggccatct tcatcttcgt cgatgaggtc 300
ctgccaccaa ccgcggcact catgagcagc atctatgaag aacataagga tgaggatggt 360
ttcctgtaca tcacgtgtgt tattcccct ctttcgtccc ttaggacatg tattaacagc 420
cgttcagata ctctggcgag aacactttcg gtgactgctg agtatcaatg ggtccttctt 480
agcaaatgga attctccgca ccgtcaaggt gttcgattca cgaacctacg tttcaagttc 540
gtgtcgaagt cgattgatcc atga 564

<210> 4128
<211> 378
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (6),(15)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4128

gcgccnattt tccancccg tggtgaagac gtggcctctt acgatcagat caagtctttg 60
ccatatctga gagcggtcat tgatgagagt ctccggttgt atccaccaat ctcccatggc 120
ctcccccgag agacgccaaa agagggcatg atgatcatgg atcagtgggt gcctggaaac 180
actactgttt caatgtccgc gtatgttgct catcgagatc ctgccgtttt cgatcaaccg 240
gagtcttttg tacccgaaag atggctagga gagcaagggg cgggccctgc aaacccgttt 300
tatcgccttc tcagctggcg cacgaggctg tattgggcgc ccgatctctt acctacaagc 360
cagcatcctc ctagctaa 378

<210> 4129
<211> 228
<212> DNA
<213> A.fumigatus

<400> 4129
gagagcaagg ggcgggccct gcaaacccgt tttatcgcct tctcagctgg cgcacgaggc 60
tgtattgggc gcccgatctc ttacctacaa gccagcatcc tcctagctaa cctggtgcat 120
caatatgact ttgagatgtg ggatccaaag tggaagccca gcacgcggga aacaatgaat 180
ccgatcatgg gtcccatgcc ggtgaggatc cataaacgca gcacatag 228

<210> 4130
<211> 213
<212> DNA
<213> A.fumigatus

<400> 4130
gcgaatactt tcgatccctg gctgtcaggt cgacatgacg tagcggtctg cgaggccggc 60
tgccgtcacg ttggtctcga tatcaagggc aaggatcagg ctaatcccag tgctatgatc 120
ctttctggat ctatgcttct tcgccacctt ggcttggacg accacgcaaa cagaatctcc 180
aaggccgtgt atgatgtgat tggtgaaggg taa 213

<210> 4131
<211> 579
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (10)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4131
ctcgaatcan ttctcagttt ccggctcaag atagcaattc tcaacgatcc catcaattct 60
tcaagggctt tcaaatgcac ctttaaacgc caaacccacg cgaaagtcag tcgagctcgt 120
ttgaagcatc gcccgctggc ccagttacca gccccaatag ctgctcaagc ccctttgca 180
acaactgcgg cgggacccaa gcgcaagaac acgcaaaagc cggcacctat gagcgtggag 240
gaggcagccc gcattgctgc ggaggaggac aagcgtcggc ggaacacggc tgctagcgcg 300
cgattccgcg tcaagaagaa gctccgggaa caagcgctgg agaagacagt caaggagacc 360
accgagaaga atgccgctct tgaggcccgc gtgaccgcgc tggagctgga gaatcaatgg 420
ctgaagaacc tgatcacaga gaagaacggc aaatcggcgg aggagaccaa gaagtccgag 480
accgacattg caaacatgtt caagaagttc ctttcgtctc agaaggccga cgctgaacgg 540
agtagttccg agtccaagat cggtgttggc actgcgtga 579

<210> 4132
<211> 1437
<212> DNA
<213> A.fumigatus

<400> 4132
agaggaacca ttgcatgtgc tgctgactcg catgcatacg cattgcttga tgtggagcat 60
cagcaaaaga tccctctgtt tcccatatcc tcatctaacg aagcgttcga atcgggccac 120
gtggaagata tgccctcagc cccgtctcca acgtctcaag gaacccgcag tcatgccagg 180
agtcctagtt cgaatacact tctcggtatg cttcaaccaa atcctccgca ccttcagcat 240
gatcggtcgc gctctgcgac acctgaactc tccccagatt ctgggacacc gagacgatca 300
gtttcgcgag accgaagtcg cagtgcatcg ccgcgagcat ctactgaaat ccgagcaggt 360
gagccacagc ctggctctgt cagtgataca aaaccgcttc ctcccctgcc gaagcagcta 420
aaacctcaca ttgcgtctcc aacgccgtca gaatttctgt tagttaccgg gacagaagaa 480
aaagaacctg gagttggcat gtttgtcaat ctagatgggg acgttgtacc acgtgggaca 540
ctcaatttcc atcgctaccc tgagtacatt gtaatcgata gcggcgaagg gaataacctt 600
gtcgattcga gggagaaaac gcacgatcaa tacatcctcg cggtcataga gacagacgaa 660
gacgggaaac gttgcaagtg gttggaaatt caaccgtggg acgttgatcc aagggaggag 720
gagaattgta agagctggct agaggtacct tcgaccgagg acatgccgcc atgtcctgtg 780
ggaatctgtc atacaataag ctccagccaa cttgaattcg gtgaactggg aaacttgcta 840
cagatggtcc gcttgaagac gccctccttg tctccttatc tacccgtgac agatccaagg 900
acccaggctt ccattgagca gcttcagaag gagaaggaat tgttcgagtc tcaagagttg 960
actgattccg atggagtaag gaggggcgac gggtcgccgg agcaggggtg ggaagcagaa 1020
cgcaataatg aaaaaaccaa attcgcgcgg gctctgggtc aggctcaaag cagcttggtg 1080
atgtggtctg ggcgtcggat ttggcgagtg gttagaaatc cattaacaac acaacttgat 1140
agtgctttgc aagctgccca aggctcgaag gatctcatgt acgaagattt gaaaagggat 1200
tctattctgg atgtttttga ggaaattcag gccccccagc cgcgctctga aaccgagttc 1260
ttgggtctca attttctaaa acaaaagtca agcctccttc tttttggtga cctgctcttc 1320
agggatgcag ctgctccaaa ggaggccgcc ggccaagtaa cggaaagggt gctgaataac 1380
tggaaggttt ggatcccccg aatggttctc ttgttgattc cccaacccaa aggggcc 1437

<210> 4133
<211> 597
<212> DNA
<213> A.fumigatus

<400> 4133
caagctgacc attcgacagg atacagcatc cccctgttgg actcggacgt gtcagtcgca 60
aagaaaatgt ttgatgtgaa cgtcttcggt gtcgttacag taactcaagc attcgcacct 120
cttctcattg catcgaaagg gacaattatc aatatcgggt ccgtgcttgg caaaatgccg 180
ctcccatggc aagcatacta caacgcaagt aaagccgcag ttgctctcct caccgaccaa 240
atgcgtattg aactttctcc ttggggagtt agagcgatcc tcgtcaatac cggtgcagtc 300
agaacgaagt tcttcgataa tcttccaaac accccggtcc taccagaaag ttccctgtac 360
taccctgcca aggatgtaat tgagccagca ctggctggaa gtgaggtgga gaaaaatgcc 420
atggatgtca actcctatgc tgaggctgtc gtcaacaacg caacaagatc tagtcccaaa 480
aagcatctct ggattggagg aggagctctt ctgacctggt tggcttcgac tttcggttgg 540
tcaaccattt gggtaggatc attcccttat ccaaaaccaa caggtctacc ttactga 597

<210> 4134
<211> 1044
<212> DNA
<213> A.fumigatus

<400> 4134
gctggtaaag aatggtatgt ggtttcagcg atccgtcttt cccgctcgag gttccatcgt 60
actgaatttt ttgcagctca atttaccgga agcccgattg aactccaccc ccagttcaac 120
ccgatgatcg gcccttcgcc gtacgttcag atcaatatgg gagcgcggta cacgccatgt 180
atgaagaacg tggacaagat ccagaattcg caggtggagt tcctgttccc gtgtcccaac 240
gcaacatcaa ctgctgattt tgtatgcacc ctctccgagc tgtgcggttt cgatggagtt 300
cccaacccgg ttcccggcgg caccctggac gatcgccctg agccaaatca atggttccgc 360

ttcatcattc ccatgttcct tcacacgggg atcattcaca tcggcttcaa cttgttggtt 420
caaatgacaa tggctgctga tatggagaga acggtgggat ggtggcggtt cgcctttgtc 480
tacttggcca gcggtatctg gggtttcgtg ctcggcggaa actacgctgc tcagggcgag 540
agttcttgtg gttgctcggg cagtctattt ggcatcctgg ctctctatat attggacctt 600
ctctatactt ggggtgaacg gtcgagtcca tgggctgagc ttgtgatcat ggtacttggc 660
atcgccattt ctttcgtgct cgggttgctt ccggggttag acaatttttc acacattgga 720
ggcttcatca tgggtctggc atctggtctc tgcattatga gatctcctaa tgcccttcgc 780
gaacgcattg gtcttgcccg taacccatac gtggccatga ctggtgccgc gggtgccact 840
gctgacccag gaaacaaggt caccaaccct ggctcgacca ttgctgaatt tttcaaggct 900
cacaagggct ctaagagctc gaaagactct agtgctttgg gtttcttcaa gggtcgtaaa 960
ccactatggt gggcctggtg gttggtgcga ctcggggtct tcaccacggg gctggaagga 1020
tcagcgctgg tgctgtgcca tacc 1044

<210> 4135
<211> 765
<212> DNA
<213> A.fumigatus

<400> 4135
cctgtctgtg acgcctgcgc cgtgttcctc cattcccgag tagtcagcct cagacttccg 60
cattactgcc tcatcagcgc tgggtgtcct ggtctcatct tccaggcttc ccacggtcgt 120
tatacctgtc acatacctcg cccgaatcga ggccacaact gctgtttcaa aatgccgaac 180
ccatctcagt tattcctcct tgctgatcac atcaagttgt cactgttgga gcggcaacga 240
gcgatctcgt tgaatctgga gcccaatagt caggatggag aaatctcccg ctctctagaa 300
tctctacggg aaggcattga atcggtagaa tcggaagtat cgcgtttggg ggaagcgaac 360
gatgttgccg ccattgatct taaagatcaa ctccattatc tacagtcaca atatcgagac 420
ctttcatccc aatttcacga acaagacgat tcggtcttgg actcggattt cagtaatgtc 480
aagaagtcgt ctcctgacct gaaacagcct attccacagc atccgccttc caagtctgtc 540
cgattcatgg attccgcagc ggaagacgct gatgaaaatc gtcgcaacct cttccagcca 600
taccgcgact ctccttctcc tccaagtccg gaccactcca acatgtccaa tcaacagatt 660
tatgaccatc acgctgagac cctccgtgag caggatgaac agttggatcg gctgggggag 720
tcaatcgggc gacagcacca gctcagcatt cagattggcg catga 765

<210> 4136
<211> 309
<212> DNA
<213> A.fumigatus

<400> 4136
ccctgttttt tttcccgttt tatccaggag catgtaaagc aattgtgtcc cagcttgaga 60
acaacctgtc ccgactgcca aaccacagtc tttcgaaaag tgctgaggga tcatattgaa 120
acttgcccgg aggcaataca tgcatgtgcc gcatccaaat atggatgccc agttaaagac 180
aagcgggccg acctggcgac acatgagcaa gcatgtccac tcatcgctat aggcccttat 240
ttcgaagctc agaatgcccg gcttgattcc ctgggtgttc aacacgccgt ggaaggtccg 300
tatttgcgt 309

<210> 4137
<211> 339
<212> DNA
<213> A.fumigatus

<400> 4137
gcgctgcgtg tcccgcatgc gcctattaaa cggagccatt tgtctgaaag cgacagatac 60
cggacgcttt tgccgactat gaacctcgag gagcttctga tgatggagtc gagctgcgac 120
cgtgaggaga tcgttgacct gcgtgctctg gagtatgtct cgaattatga cgaccacctt 180
atgtgtgcaa tatgccactg tccatttatt cgaccagttc gcttgcagtg cgatcatgtt 240

ttttgtcaaa aatgcctgaa ttccgccatt aacacgtttg ccgctggtcg agatgaattc 300
acatgtccga gctgccgcac aacgactcga gatgtctaa 339

<210> 4138
<211> 414
<212> DNA
<213> A.fumigatus

<400> 4138
ggaagagcga tcatgggagc gaccgcctcc tcaaccacga cctacgttga cagccccgcc 60
gcaactatcc cggggcggcc gtggaggtcg tggagggcgc cattcgaatc actacacgcg 120
cggtggccat tccggaggcc gccgttcatc gaatacaccg aacaagccca acggtttccg 180
ccagctgaat cccagcataa gtgccacgga actatctcta caggcgcagc acgcacagta 240
cctgttgcac gatcacttgt accagcaaat ccaaatcctg caagcacagg agcaggaatt 300
gcgattgcaa ttgcaaaacc aggcgctgct cacagggaga ccccctccag tgctcatccg 360
ccagccgttc atacagtttc ccattcctca gcagcagccg cagccgcagc ctga 414

<210> 4139
<211> 1485
<212> DNA
<213> A.fumigatus

<400> 4139
tttttgcccc gttttgagca ggtttccccg tactcttcat tttttaacat ttcggctgta 60
gggcttggag ggacattaag ttcctataca tggatctgcc tgattatcaa ttttctgcaa 120
acgcgggaac ctcctgtact cccgagtctc caagcacgac ctcacaagaa acgagtgaca 180
acagacggcc tagtttgctc gttcgacgat gatcttagct ccctcgtggg gtatgggcga 240
aaaaacaagc agacgcttgg ggagctgctc ttccaattct tcaggtatta tggccatgag 300
ctcgactatg agaagtacgt gatatctgtg cgggaaggcc ggttgatatc gaaagaggag 360
aaggggtggc accttctcca gaacaatcgt ctctgcgtcg aagagccatt caacacgtcg 420
aggaatctgg gcaatacagc ggatgacaca tcatttcgag gcgtccacat ggagttgcgt 480
agggctttca aggcagtgtc cgagggcaac ctcgaggatt gctgtgagca gtatgaatac 540
ccgcctgagg aagagcgatc atgggagcga ccgcctcctc aaccacgacc tacgttgaca 600
gccccgccgc aactatcccg gggcggccgt ggaggtcgtg gagggcgcca ttcgaatcac 660
tacacgcgcg gtggccattc cggaggccgc cgttcatcga atacaccgaa caagcccaac 720
ggtttccgcc agctgaatcc cagcataagt gccacggaac tatctctaca ggcgcagcac 780
gcacagtacc tgttgcacga tcacttgtac cagcaaatcc aaatcctgca agcacaggag 840
caggaattgc gattgcaatt gcaaaaccag gcgctgctca cagggagacc ccctccagtg 900
ctcatccgcc agccgttcat acagtttccc attcctcagc agcagccgca gccgcagcct 960
gaatcgagtg tagatgacgg gtctcggtct aggtccggga ctcatccgcc tctcagcgcg 1020
agtctacgtc cgcaggcgta caacaattcc gcctatcttc cggtcgctgt cactcccgca 1080
cagggaagta gcacgaatcc cccgtcaccc tcagccgtgt ctgctcttcc cgagctccga 1140
cgtacaccgc gtcgccagtc catagcaaat ggctctcctg gtcgatcact tagggcgcac 1200
tcacagccgg cacgacctgc gaactccccg gctttcccga gctttgctcc gctgtattcc 1260
gtctctcagc ctgtcgacaa ttcccaactc ccgaaacagc gcaacaattc tatatctccc 1320
ccggaaggaa accagagcga ggacgagaat tcctttatgc ccagcagtct ccctaacgtg 1380
tcgcgtgcac cgtatctgga tgaaaaccga ccgtctgagt acatggggta ctatttggca 1440
acgtcttcac acacgggcct ggcaggatcg gcgattgagt taggg 1485

<210> 4140
<211> 624
<212> DNA
<213> A.fumigatus

<400> 4140
tcacagggcg tcgatatcct ctgttctgat aaaacgggaa ccttgacggc caacaagttg 60

agcattcgag agccatatgt ggcagagggt gtggacgtcg actggatgtt tgccgtggcc 120
gccctagcat catctcataa tatcgaatcg cttgatccca tcgataaagt taccattctc 180
acgctaaggc agtatcccag agcaagagaa attcttcgac ggggttggaa gacggaaaaa 240
tatatcccat tcgaccccgt ttcgaaacga atcgtgacgg tggccacctg tgatggaatc 300
aggtatacct gtaccaaggg cgcccccaag gcagtgcttt cccttaccaa ctgtcctaaa 360
gaagttgccg atgtctacaa gaacaaggcg caggaatttg cccacagaag cttccgatcc 420
ttgggtgttg cggttcaaaa agaaggagag gattggacac tacttggtat gcttcccatg 480
ttcgatccac ctcgggaaga atacgcgcat acgatcaatg aagcccagaa tcttggaatc 540
agtgtcaaga tgcttacagg tgatgcattg gctattgccc aaggagacat gcaaaatgct 600
cgcactggga accaaggtgt ataa 624

<210> 4141
<211> 903
<212> DNA
<213> A.fumigatus

<400> 4141
cggtggccac ctgtgatgga atcaggtata cctgtaccaa gggcgccccc aaggcagtgc 60
tttcccttac caactgtcct aaagaagttg ccgatgtcta caagaacaag gcgcaggaat 120
ttgcccacag aagcttccga tccttgggtg ttgcggttca aaaagaagga gaggattgga 180
cactacttgg tatgcttccc atgttcgatc cacctcggga agaatacgcg catacgatca 240
atgaagccca gaatcttgga atcagtgtca agatgcttac aggtgatgca ttggctattg 300
cccaaggaga catgcaaaat gctcgcactg ggaaccaagg tgtataattc cgataagctc 360
attcatggtg gcctgagtgg tgtcatggca agtgatctgg ttgaaaaagc cgacggcttc 420
gcggaagtct tcccagaaca taaatatcag gtggtgcaaa tgctccagga gcgaggacat 480
ctgacagcaa tgactggtga cggagtgaac gatgcgccgt cgttgaagaa agctgattgc 540
ggtattgcgg tagaaggcgc aaccgaggca gcgcaatctg cgtcggacat tgtgttcttg 600
gagcccggat tgtctaccat cattgactcg atcaaggtgg ctcggcagat tttccaccgc 660
atgaagtcct acatccagta ccgtatcgcg ctttgcttgc acctggagat ctacctggtg 720
acgtctatga tcatcctcaa cgaaagcatc cgcgtggagt tgattgtctt ccttgctctt 780
tttgctgatc tggctactgt agcagtggcc tatgataatg cctcctttga actgcgtcct 840
gtggagtggc agcttcccaa gatctggttc atctccgtgc ttctgggcct gtcttcacca 900
cgg 903

<210> 4142
<211> 672
<212> DNA
<213> A.fumigatus

<400> 4142
atcatcgttg gtgaaggcca agtggttcct gctgatgcca agattatctg cgattacaat 60
gaccccaatg gttgggaaga atttcaaaga atgcaggaac aaggcgacct cagtagcact 120
tctgagtccg atgtcgagga caatgagaaa gagggcaagg aagggaaggg tgaacaagag 180
tcctccagaa aacgcagcca ccccatcctt gcctgcgacc attcggccat cacaggagag 240
tctcttgctg tcgatcgcta tatgggtcaa ttgatctact ataccaccgg ttgcaagcgc 300
ggcaaggcct atgcagttgt ccagagcggt gcgaagactt ctttcgttgg caaaaccgcc 360
tctatggttc tggcagctaa gggggctggc cattttgaaa ttgtcatgga ccagattggt 420
acatctcttt tggttattgt catggcatgg attctggctg cctggattgg aggcttcttc 480
cgccatatcc ccattgcttc gcctcctcag cagacgcttc ttcactatac actgtcgcta 540
ctgattatcg gtgtccccgt cggtcttcct gtcgttacca ccaccaccat ggcggttgga 600
gcggcttatc tggcaaagaa gaaggctatt gtgcaaaaac taactgcgat tgaatcactt 660
gctgtaggtt ga 672

<210> 4143
<211> 240
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (77),(143),(167),(170),(205)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4143
ccggggcttc cttcagttcc ggcatttctg aatgacattg attcgaacat gctgaaaaat 60
ttcttcattc gattganctc gagtcatttc acaattgatt tttgcttccg caaccagcac 120
agtaaattcc ttgaaccggt canattcgag tggtctactg aactgcngcn tacgtttgaa 180
ggctctacta cttcgctcgg gacanccgtc acttccccat cgaggcatag agaaacctga 240

<210> 4144
<211> 1164
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1),(67),(91),(94),(129)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4144
nctcgagtca tttcacaatt gatttttgct tccgcaacca gcacagtaaa ttccttgaac 60
cggtcanatt cgagtggtct actgaactgc ngcntacgtt tgaaggctct actacttcgc 120
tcgggacanc cgtcacttcc ccatcgaggc atagagaaac ctgacatcgt gccgaataac 180
cagggcgcga gctctgacat acttgctgcg gcttccatgc tctatcagaa cgggatggca 240
gggtctgaca tcaacccggg attcggacag cagcaattcc cgtccatgtc agagctcaat 300
ttcaatcact ctattgcaaa cggtcacggt aagaatcagc agtccagcaa ccacatatct 360
tccaaacagc caaactcttc ccatacgcgc ctgcctgttg gcttccatac ctcggagatg 420
ctattcgatg ttcgcgaacc catttccccc gaacagcaag catcagcaaa aatacgcccg 480
ctccactggg gctctgatgt tagttttatg gagcaaggtt acatcgcgcc gcctgatcaa 540
ccaaatgaag aagagcgaac aaaagagttg cttggaaatt tggagtgcct tgaacctcaa 600
agcagcgctg cgaatactcg agcacctagc ccggagcgga cagcaggtgg ttacaactct 660
cactggggag agtccggcgg gccagttccg ctcaacagcc tacaaagaga atacaacccc 720
gacctagatg actattcgca accaaagaaa agacagagga cttcgatcaa gcaagaagat 780
gacgagcaat ccgatgcaga tagcacgaga ccaagatcaa gacggtcaaa gagctcggct 840
agtggcaaag cgaggcggac atcaaatgac acaatccgaa agccaaagct gcagcaagga 900
gcaaaagccc cccgtgagaa tctcacggaa gagcaaaaga ggaacaatca cattctgtcc 960
gaacaaaagc gaaggaacct cattcggcaa ggctttgatg acttatgttc acttgtgcct 1020
gggctgaaag gcgggggctt cagcaagagc gcaatgctca ctcaggctgc tgactggctt 1080
gaggatattt taagagggaa cgaaatcctc aaagcacaac tagcagaact gaagacgatg 1140
aacggcttag tgatgccccg atga 1164

<210> 4145
<211> 1368
<212> DNA
<213> A.fumigatus

<400> 4145
gggacgttgc caatggacaa aggccgcaaa atcttatggg gacattcaat ctgcgtatgc 60
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gcaacattca ctttcggaga cccgcagtct ccgttttaca ccatgcatac tttctcgacg 180
gatgagctgt ctatcgcaag agcacaccct atgaaacctc acagcagtgt ctctgtgatg 240
atgctgaaac tggaggatcg gaagcgtcgg ctgccgccca acgacggact ggtcaccctg 300

ttgttctccc gactggctgc aatgctagct atcagcgaag cagaggaagt agcaaagcaa 360
catcaccttt catcaaccga agcgagcaaa gtggaaggca acgcgctgaa gcgagcagct 420
gcacaagagt cctgcaggct tctctggaat aacgagaagc gcctgtacga gctccagcac 480
ccttcgcact gcaaacagcc accgcctgct ctcgtcggcg cagctggatt cggtgcagcg 540
ggtattcccc tttctccagt gcggtcgaag tacgcgggga tcctccacat ctcagtctcg 600
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tcccccaacg cgttggaggc cgcccccag gcggccacgc cacgcacctc taccttccg 720
ttgaccgact cggacgagcc gctggcgtca cttgaccttg gtacaatgac gctgtcgatt 780
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<210> 4146
<211> 402
<212> DNA
<213> A.fumigatus

<400> 4146
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ccagggagtg caagtgcact aggaagtgcg agtacaccag ggagtgtaag tgcaccaggg 180
agtgcgagtg cactagggag tgtaagtgca ccaggaattg caagtgcact agggagtgcg 240
ggtaaaccag gaacttttgt ggtcgctctc cctggtgtgt ccgcactcgc tggtgtgtcc 300
gcacttccta gcattaaata tcccggtcgt tgcaacagta tgacattgaa tttccataga 360
tatacaagac taccaacctc tctagctccc attgatttgt aa 402

<210> 4147
<211> 423
<212> DNA
<213> A.fumigatus

<400> 4147
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ctatggaaat tcaatgtcat actgttgcaa cgaccgggat atttaatgct aggaagtgcg 120
gacacaccag cgagtgcgga cacaccaggg agagcgacca caaaagttcc tggtttaccc 180
gcactcccta gtgcacttgc aattcctggt gcacttacac tccctagtgc actcgcactc 240
cctggtgcac ttacactccc tggtgtactc gcacttccta gtgcacttgc actccctggt 300
gcacttacac tccctggtgc acttacactc cctggtgcac tcgcaattcc tagtgcactt 360
gcactccctg gtgcacttac actccctagt gccgtcccac tttctggtgc acttgcactc 420
taa 423

<210> 4148
<211> 267
<212> DNA
<213> A.fumigatus

<400> 4148
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gtgtttatga cttgggattg cctgcaagac ataacctatg ccaaattttc tttaagcttt 120

aatatttatt tatttatatt tttatttatt cattttttatt ttatttttta ttctttattt 180
tttagtttat tttttgttgt tttttatttt tatttttatt tttttttga tgcctgcgtc 240
cgttcaacaa cattacacaa agcctga 267

<210> 4149
<211> 882
<212> DNA
<213> A.fumigatus

<400> 4149
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tccgagtgcg aatatggcac cagcaagcga gaccaccatt acatccagca gtcggctctg 120
atcgacagtc tgatgaaaac atgcgaggac ctgaagaagc agctggccga agcgcgcgcg 180
ttggccaatc ttccgccggt aaagccggag gagccattct cagtctcgtc gccagaggac 240
caccgcgaga agacggtgga cgaggagcgg tcgcaaaacc cggagtctcg agcttcttcc 300
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ccatgcacga ccgatcggtc gtctcgatcg ctcagtgacg acaagcgcat cctgaccgac 420
cccgcggtcg cgagctcgtt tgtggaagtg ttcgtcgagc gtctcattga caatttcagc 480
ccacagccag cctccgtcta tggcggcacg gttgccctgc gcgaggcatc tcgcatgcgc 540
attctgtcgc cgatgctgtg taccgcattc gaggctgcct ccttgacctt cgccgggcga 600
cgcgagcaga tccgcgaggt ggaagccgtc ggacatgccc gctacgtccg ggtgctccga 660
caactgcaaa ccgccctgaa cgaccccaag cagaacaagt cgacggaagt gatggtcgtt 720
gtattactct tcaccatcat cgaggtccgt ggcgtcagcc cttgccgcat ccgattccca 780
ctaaccagtc gggcaggcct tcaagcacag caccaaagat tccctgctga agcaccaact 840
cgggcgatga tgtcagcgcg acccgacgac tcggtacgga tc 882

<210> 4150
<211> 312
<212> DNA
<213> A.fumigatus

<400> 4150
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cgaccttgta tctttcatgt gcgaaggata tcttctatca ctactcttct cgttctctta 120
acgtactact tgggggaagg gctaatgttt cacgtgattc acctcaatgt catctatctc 180
agattgtatt cgttaccctc agaaacagac cagctctata tgtctcatac tcttcctatc 240
accatccaaa ttcacactta tcgtattttg tctacattgc aatgtacctt ggtgctagtt 300
cgctgcggat ga 312

<210> 4151
<211> 804
<212> DNA
<213> A.fumigatus

<400> 4151
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ggggagttca aagatcattc ggcatccaaa gattgggttg ttcgtcaccc gaatttggaa 120
ggtaacggca gggggattgg ttttcccaca tcgagctact ttgatcgact tccaccgccc 180
tctaccaatc cttccatgat cggaatgtct cctcggccat ctccaattgc tccttattct 240
gctaatgcta caccacctct acacgaaatg tcaccgaatc cttccacgac atctctacct 300
acccagtcaa ccggcgccca tcctctgcct cagcgtgccc caggccatgg cggtcttcaa 360
aagcgggtca tcgacaagac gcagatctcc gagccaactt ttgtctcgtg cacatctaac 420
gtgccgactg tgggtcttcc ccctggcgca agcttaagta acggcatgga gacgccacca 480
atcccgccta tgaacccacg acggcgccgc cagaccacca cccagaccat cattggcgct 540
ctcaagggcg agaagcacga gtcgcaccat ccggcctcga cggtcagcag tccccctgag 600
gaacatagca ccttcaacga caacaacaac aagcggccca agtccaaaca taacaagctc 660

cgcaagactt ccagcgaggg cggtagtctg aactccaagg cccgacacca agcgatggcg 720
gctgctgctg ctcctctgcc ccctgcaccg gctgtcccgc aatacgcgcc gcccaatgtc 780
cccatagaag gtggaatgtt ctag 804

<210> 4152
<211> 198
<212> DNA
<213> A.fumigatus

<400> 4152
cttgggccgt ttcgtccgct tccaaactgg ggcacagcct tactaactga tagttggtct 60
ctgcagatgt gggactatca aagatacacc ggtgaccctt ggagcgacat tgaatgcagg 120
gggaccctcc ccggcaccgt accttgccga gacggcagcg tctacatgcc tgggacaccc 180
gaccatggtg tggtttag 198

<210> 4153
<211> 495
<212> DNA
<213> A.fumigatus

<400> 4153
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catgatggcc ttcctaaacc acaccatggt cgggtgtccc aggcatgtag acgctgccgt 120
ctcggcaagg tacggtgccg gggagggtcc ccctgcattc aatgtcgctc caagggtcac 180
cggtgtatct ttgatagtcc cacatctgca gagaccaact atcagttagt aaggctgtgc 240
cccagtttgg aagcggacga aacggcccaa gtcaagcaat acgtccacct ctactttgct 300
cggttccatc cacactggcc cattcttcat cgagccacat ttagcattcc aaacgagccc 360
ccgctgctgc ttcagacggt cttgatgatc ggtctatggg ttagcggcaa gacatctgcg 420
cggaatgccg ccgtggatct gcactccaag ctaggcctgt caatccacga acaaagggtg 480
cgttaccgac cttga 495

<210> 4154
<211> 333
<212> DNA
<213> A.fumigatus

<400> 4154
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caaaagtatt ctttacaccg tggaaggatc atttgcaatt actcactgtc cggaatcaat 120
tctaccctcc gcccgcctat gatgggcccg acttgcgccc aaatgcctgc gctacggtac 180
gtaatttgga cattacgctt gaatatcatg attaacggcc ccaaggttgc agtctggaag 240
cttcgtggca acctccctca tccggttgag gctaccgcct tattaacgga cgcgattctt 300
cacgacgatg cgcagaaaaa ttccatattt ttg 333

<210> 4155
<211> 1140
<212> DNA
<213> A.fumigatus

<400> 4155
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ctcacaattc tccgtcgtcc ctaccgatac tttttacgca gctatctaac ttttgttatc 120
tgtactttag gtcgacctgg tatattcaat caaagggaca cagcagaaat ttgggctggt 180
ggtgatggaa gatcgcatcg cgaaagactt gcagcggcta caggcggagc atctgaagct 240
tctagcaagc aaaacatgct agcagagatg tacaggcccc cgtttgacat catgtcacgg 300
ttaccttggg atctcgcgcg gcaggagggt cgtgagaatg agaagtggct gcttgtcaac 360

atacaggatc agtccatatt cgactgtcaa gtactgaaca gagacttgtg gaaagatccc 420
gcagtcaagg aaaccgtcaa agaacatttc atattcttgc agtattccaa ggatgattca 480
cgggcgacgc cttatctaca atactatttc caagcgagcg atgtctccga gaactacccc 540
cacatagcca tcgttgatcc ccggacgggc gagcaaatga aagtttggtc ggggccacct 600
gtggtcaagc ctgcggaatt tctcatgcag cttcatgaat tcctcgaccg ttacagtctc 660
aagcataacg tgcggaatcc ggtggcgaag cgaaaaccgg aaaagaggga aaaaagtatc 720
gacacgatga ccgaggaaga aatgctggag atggccatga gaaatagcct gggagacgag 780
gtagcacaag ctcacagagt gatggatccg gacgatttga cccgcagtac cgaggacgtc 840
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gctgatcccc cgttaccgga aaaggcaggc attgagtttg agctcaactc tatgggccgc 1140

<210> 4156
<211> 735
<212> DNA
<213> A.fumigatus

<400> 4156
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tatgcgattg gctatttcaa gaagcaggga ttcaccaagg aaatcacgct cgacaagtct 120
atatggatgg gttatatcaa ggattacgag ggcggaacca tcatgcaatg taccatgctt 180
cccaagatcc gatacttgga agcaggtcgc atgcttctga agcagaagga agcggtgcaa 240
gccaaaatca gggcattcag ccgttcgcat atcatccatc ctccgccaag ggaatggaag 300
aacggacctt gcaagatcga tcccctgagt atcccagcca tcaaggaatc cggatggtca 360
ccggatatgg acgaattggc gcggcaaccg cgccatgggc cgaactacaa tcagctcctg 420
cacttgctca acgacatgca aaaccacagt gctgcgtggc cattcactca gcctgtcaac 480
cgcgatgaag ttcctgatta ctacgaagtt atcaaagagc cgatggactt atcgacgatg 540
gaagagaagc acgagaagga catgtacccg accccgcaag atttcatcaa agatgccatg 600
ttgatctttg acaattgccg gaaatacaac aatgagaaca caccgtatgc gaagagcgcg 660
aataaactgg aaaaatttat gtggcagcag attcgcaaca tcccggagtg gtcggtaagt 720
gtctctcttg gatag 735

<210> 4157
<211> 243
<212> DNA
<213> A.fumigatus

<400> 4157
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cagctccttc tactccgcca gactaccgtt cctacggtca tcgactcata ctatctcctg 120
gctctgggct cttaccgcgc gttttacata ctgaactggt ttgtgagagg cttcggtcct 180
gaagaaacac tgggatccaa tcgctatgat atttggtatc gttcaaactg ccttctacgt 240
tga 243

<210> 4158
<211> 471
<212> DNA
<213> A.fumigatus

<400> 4158
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actgccttct acgttgattt tgcttgggtc tactattctc gtcagcgcgt caagcttcga 120
aatggtggtg tggtcgattc ggaagattat agcaaaagtt ggatagttaa caaggtgttc 180
aatatccgac ggcgacgaga aagcctggac gaagagcaga accttaccgg agaaggaatg 240

gaaggggaga gcggtgatgg tggtgatagg cctcgcaaca accgctgggg tgctcgcggc 300
atttccatct cagcggacga tatgttggac gagcacaccc ggcgcaagcc cggggatgcg 360
gataacgaag gcttggaggg atttctggag gatgaggata acagtatgga cgatcaaact 420
ggtgggcgga gcccattgca tcacacatcg gtcacgtcca atcgtgactg a 471

<210> 4159
<211> 216
<212> DNA
<213> A.fumigatus

<400> 4159
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cctgcaaagg atactgatgg ggatggaatt cccgatgaag cggagaagca gctgggaaca 120
gatcccaaca ccaacgattc tatgaaactg catagtagtg gctatacata tctggaggtg 180
tgggccaact cgttggttcc gtccacctac cactga 216

<210> 4160
<211> 1146
<212> DNA
<213> A.fumigatus

<400> 4160
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agtgtgcgtt catcccccca gctccagtcc atcaccacac tcccagaccc cttctcttgg 120
tatccactgc agaagactgg tcgtgtcagc actctctccg actggcaatg ccgtcaaagc 180
cacattagca gcctcctcca gcagctcgaa ctcggcacca agcctcccgc cccctccagt 240
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<210> 4161
<211> 915
<212> DNA
<213> A.fumigatus

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caggtccaat caacccttct cataagcgcc gccccgcaaa acaagaaaac aatgaccgac 240
tccatcccag cgactttcaa gcctgccctc attatccacg gcggcgcagg caatattcag 300
cgctcgaggc tgcctccgga cctctacgct cagtaccatg cctccctcct ctcctacctc 360
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gtctcattgc tggaagacga cgagctcttc aactgcggac gcggcagcgt gttcacctca 480
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aacggcgacg gcgggaacat gcactcgcag ctcggggcgc cgtacgtgga ggaactcgct 720
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gaacatcagc gcgggctaaa gggggagacg gagcccgttt ccttgagcca ggggacggtc 840
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ccgcgccata aggag 915

<210> 4162
<211> 225
<212> DNA
<213> A.fumigatus

<400> 4162
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gctgttcgtg gtggtgtcaa ggccgccagg aactctgcca tcatgtgcgc tgtgttcctg 120
gccgtcattg agggtgttgg tattgggttc cagaggatga tggcggacaa cacaaaacta 180
gaggtatgga gtcttaccat tgctttatgt tacgattgtg gctga 225

<210> 4163
<211> 318
<212> DNA
<213> A.fumigatus

<400> 4163
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atccctcagg tttggagatg gcggagggag tcctactgtg cagagagggg taaaggcaag 120
ctacggtgtt cggccgccga tcagcgcatg aaacaacagc ctcaccatct cgactgcatc 180
accatcgaag aatctatttg gttggtgaac ttttcccttt gtctggttgg ctatttcagc 240
atctattcgc atcgtggtgt ttactacctg aagctagatt cgttatttgc agccaggtcc 300
aatcaaccct tctcataa 318

<210> 4164
<211> 264
<212> DNA
<213> A.fumigatus

<400> 4164
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cgacggatag gtgccatcac agccatcaag gctcgagcgc ccgtccttgg tggtaacttt 120
ggtgtctggg gtggtctgtt ctcgacgttc gattgcgcaa ttaagggtat ccggaagaag 180
gaggatcctt acaatgctag tacgttaacc tcctcattct acttgacagt tgtggcgatc 240
cggcacacga atgacctgtt ctaa 264

<210> 4165
<211> 204
<212> DNA
<213> A.fumigatus

<400> 4165
tggtttaaca tcgcagctac cattctttac gtgggaaccg aattccccat ccatgtccta 60
tattattacg tgtctctctt ctctggtgtt ggggctggtc atttcatctt caacgaggca 120
tggcatagag gttttttgct ttcatattgt gcttctagtc caacttttgg attagctctg 180
agcactggca tttgccagcg atga 204

<210> 4166
<211> 747
<212> DNA
<213> A.fumigatus

<400> 4166
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cgcaggcaat attcagcgct cgaggctgcc tccggacctc tacgctcagt accatgcctc 180
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cagcgtgttc acctcagcag ggacaatcga aatggaggcc tccgtgatgg tcacatccgt 360
caacaaaccc accgacgaga cgccatctcc catcaaacga ggcgcagccg tgatggagct 420
aagaaacgtc cggcacccga tccagctcgc cagggaatgt ctcctccgaa caggccacga 480
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cgtggaggaa ctcgctcgtg cgtgggggct ggagttcaaa ccggacgagt ggttctggac 600
caaaaggcgg tgggaggaac atcagcgcgg gctaaagggg gagacggagc ccgtttcctt 660
gagccagggg acggtcgggt gtgtgtgtct cgatcggtgg ggggaactgg cgtcttcacc 720
acggggctgg aaggagccgc gccataa 747

<210> 4167
<211> 381
<212> DNA
<213> A.fumigatus

<400> 4167
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caatacgaga gagttgcccg aacaggagaa atgagtgtca atcctacctc cttccggcaa 120
gtcctgtatt cgtctatggt tgatagatgt ggctcagccg tgatgcttct agctcatccg 180
catacagtgg gtgatcacct gacgcctggt cccacctacc acctaatttc ccttatagac 240
tttcaaaata accaaacttc aactgctcat aactctacta atataactct aattaaagta 300
gctttagaag taattaaatt attagaacta ggtgaattaa ttaattatac tttctttata 360
aataagtata gtgttagcta g 381

<210> 4168
<211> 249
<212> DNA
<213> A.fumigatus

<400> 4168
ttttgctacc caggtataag aatagtggcc ctgttaccct ctccatttca tttttcttgt 60
cgaaacggat ctcttaccca ttacagtccc attacggggt acagcatgac cgatacaggt 120
aattgtggaa aaatatttgt tcaagaaacg gaagcaacca agcggacctc cccgctcctt 180
ttttttttt ttaaaaaaaa attattcatt catttccttt tccacttccc ccttaaaaca 240
aacctctga 249

<210> 4169
<211> 297
<212> DNA
<213> A.fumigatus

<400> 4169
gcaaccggta tcaactattc cagctgggcc ctcgtcaact tcgccttcaa ccacgtcatc 60
aagcgccgct tctttgcttg gtggacaaaa tacaattacg tccttgcggc tgctctcgac 120
accggccttg cgcttagcgg catcgtcata ttcttctgca tctcgtatcc tggtgccgtg 180

tttcccgact ggtgggggaa cacagtatac ctcaacacgg cggatggaca gggagtcgcc 240
tggaagccga tgccggatgt tggttacttt ggtccaccga atggaacttg gacctga 297

<210> 4170
<211> 1869
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (1093)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4170
aggtctgttg tcttttgcgc catgaatact agattctctt actcattcca gagctgtgta 60
gtccgagcag ttgttcctga aactgacgac ccacacatgc ccgtcaatac gcttcggatg 120
tggatgctcg gcgtggtctt caccatcctg ggttctggga tcaatcaatt cttctccctc 180
cgttacccat ctgtacacat tgtctcgctt gttgcggagc ttcttgccta tccatgtggt 240
gtcttcctcg ccagaattct accggtaatg acggttcgtt gcggaccatt tggctctttc 300
tgcctgaacc cagatcgcca tttcaatatc aaggaacatg ccatcatcgt gatcatgagt 360
aatgtctctt tcgggtacgg cagtgccgac tcgaccaaca tcattcaagc ctcaagctct 420
aacttctaca actttggtct taaagcgggc ttctcggtgc ttgttgtgat ctgtgcgcaa 480
ttgttaggct ttgggattgc tggtttagcg gcaccatggc tcgtggagcc cgcgagcatt 540
atatggccag gggttctatc caactgtgca atgttggaat cccttcattc tcgcgtcaac 600
cccattgcga acggatggaa gatctctcgc ttgcgcttct tcctgtatgt cactgctacc 660
ggtttcctgt ggtacttctt tcccgggctc atttttactg ccctttccta ttttacctgg 720
atctgttgga ttgcacccaa aaacgttatt gtcaatcagc ttttcggcat gcagacggga 780
ctgggcctga gtcccatcac tttcgattgg agccaagtgg cgtacaatac gaatcccctc 840
ctatctccat cttgggcagc cgtcaacgtt ttcgcgggct tcgcaatttt cttctggggt 900
gtcgttcctg ccctctacta cacgaacaca tggtatactg cttacctacc aatgatgacg 960
gcggacgtct acgatcgaac aggggccgtc tacgacacag ctcgagtggt tagctcccaa 1020
cataccctgg atatcgatgc atacaagcag tattcgcctc cttatctagg cgccacattc 1080
gcgttcgtct acngactctc tttcgcgtcg atcacgtccg tcctcactca cattgcagtc 1140
tggcataaga gcgacatctg ggctgccttg aaaggccaaa acaatctata catccacgct 1200
cggctcatga aatcatatag gaaaactccc tggtactggt atgctgccgt aattgtgata 1260
gtgactgcta tcgccattgt actggtcgtg gtctacgaaa ccaagcttcc cgtctacggt 1320
gttttcctgg ccctcattat cccagccctc tacatggtgc cctgcggtat cgtccaggga 1380
atcaccaacg tcgacgccaa ccagctcaat gtcctcagcg agttcatcgg cggctacatg 1440
ttcgaaggaa agcccctgac caatatgctc tttaagattc tcagcacgga cgtggtcgtt 1500
cagggcgtct acttcgctat ggacatgaaa ctgggccact acctgaagat ccctccacgg 1560
ctgctctttg gcgcgcaggg gaccgccacc atcctctggg ccctgaccca ggccggcgtc 1620
accctctgga tgctcggcaa cattgatggc atatgcaccg aggaccaacc atacggtttt 1680
tcctgcccca acggtcgaac cgtgtactcc tcctccgtca tttggagtct agtcggcccg 1740
cggagcctct actccagggg gagaatgtac tcgcctctct cgcacttcat ctggatcggt 1800
gccctcgctc cggtagtcac atacttcctg tacaaataca caaaaacgca gcatctttca 1860
aggccatga 1869

<210> 4171
<211> 204
<212> DNA
<213> A.fumigatus

<400> 4171
agcaccacac tcggcatggc ttctaaggag caaactcaag atcataatgt caagacaatt 60
cacgccggag accatccgga ggtagaaatc ggacgcctgg atgaacttga agtcgatctc 120
gactctgcct tggaggaaca cgagtatgac tacgagtcgg aacactcccc gttttctgaa 180

ggtctgttgt cttttgcgcc atga 204

<210> 4172
<211> 201
<212> DNA
<213> A.fumigatus

<400> 4172
atgcaacctg ttactacctc cattggtctc ttctccgtat tccctttcat aggcggcgac 60
atcgttcggc acccttttata cgaacagtgt acatttaatc tatattcccc ccagttgatt 120
ggacaaaacc tgcagaactc acccttttaag caagctaatg caagtctcgg ccctggctac 180
ggagtagacc aacttgcttg a 201

<210> 4173
<211> 690
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (17)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4173
gaagttcgta cgaaganatt tggacagatt tcgttgaatc ttacagagga cctttcgcgt 60
ttcgaagatt ataccgatga tggccgaggc gatatcccca aggatggcta cgtctcctcg 120
ctcgatcgcc gaagggctcg tatggccaac ttgatgtacg ccttttttcct cttagctggg 180
gctggaggag tggcttactt gggacgtaac tgggagaccg aagaagaagc gaaggcccac 240
cccgacattc catccggctg gagcttctcg tcgtggtata accgcatgaa ggcccgtttg 300
agcgatatca ccagctacta caaggacccc gctttcccga agctgctccc agatgaggat 360
cccaatctcc gccaacctta tacgcttgtt ctcagtctgg aggatctgct tgtgcatagt 420
gagtggagcc gtgaacacgg atggcgcatt gccaagcggc caggtgtcga ctacttcctt 480
cgttacctga accaatacta cgagcttgtt ctcttcacta gtgtccccag tatgatggcg 540
gatcaggttc tccggaagct cgacccctac cgtatcatcc gttggccact gttcagggaa 600
gctaccaggt acaaggatgg tgaatacatc aaggtaggcc aggatagctc agacccagcc 660
tttagacaga actcactaaa atatctgtag 690

<210> 4174
<211> 585
<212> DNA
<213> A.fumigatus

<400> 4174
gatctgtcat acctgaaccg cgatctgtcc aaggtgatcc tgatcgatac caaggaggag 60
catgcgcgtc tgcagcccga aaatgccatc attctggaca agtggcttgg tgaccccaag 120
gacaagaacc tcgttgcact gattccgttc cttgaataca ttgccggtat gggtgtcgaa 180
gatgtgcgcc ctgtgttgaa atcattcgag ggtacttcca ttcctgttga attcgccaag 240
cgcgagagga tcatgcgtga gaagttcgaa aaggaattgg aggaggagcg aaagagacgg 300
cccaagcgtg gagtcggcag cctggcatct gctctaggcc tgaagtctac ccgcacgctg 360
gacggcgaac agagcccctc tgagggcctg gctcaaggca agatgctctg ggaccagatt 420
cgtgaacggg gccagaagaa ctatgagatg attgaaaagg agatccgtga gaatggagag 480
aagtggctcg cggaaatggc cgctgaagag gagaaggctc gtcaggaaca gatgaagatg 540
atgaagggtt ccttcaccag catgtttggt gctggtaagc agtaa 585

<210> 4175
<211> 255

<212> DNA
<213> A.fumigatus

<400> 4175
aatgatctca ttgttcgagg tatttgtctc ggcggagggc ttcaatctct tgaccgcgga 60
ttcctcaggg ccttcatcgc gctttcgttt ggccgcgtcc tttttggcct tgtcctccgc 120
gcggcgacct cttttctgct tttcgcgtgg catagtggac acaagggatc gacccgtttt 180
tcgaacaata tgctgtatag ttcgttttgg ttttttttggt ttgactttct ctccgctcag 240
gaaattttac gataa 255

<210> 4176
<211> 1167
<212> DNA
<213> A.fumigatus

<400> 4176
aatttcctga gcggagagaa agtcaaacca aaaaaaccaa aacgaactat acagcatatt 60
gttcgaaaaa cgggtcgatc ccttgtgtcc actatgccac gcgaaaagca gaaaagaggt 120
cgccgcgcgg aggacaaggc caaaaaggac gcggccaaac gaaagcgcga tgaaggccct 180
gaggaatccg cggtcaagag attgaagccc tccgccgaga caaatacctc gaacaatgag 240
atcatttcag gagcggatta catccccctg gggcaagacg atggcggaaa tgatgttcca 300
atgaacgatg cgcccgcgaa tgatatgcct ttctacggtc tccttgacag cgaagagcag 360
gaatactttt cgaaagccaa cgaggtattg gagctgaacc agttccacga tgcggaagag 420
agaaggcttt tcgtcgacag tgtctacagg gaagcggacg gaaaagaatt gaaggttgct 480
tgcagccagt cttgctcacg gcttatggag aaattgattt cgttgtccga catgcgccaa 540
attcggagac tcttcagcaa gttcattggc catttcttgc atctggtgca gcatcggttt 600
gcgagtcatt gctgcgagac gctgttcatc aacgcggcgc ctggagtaac agagaagatc 660
tccaagtcaa aaggccgtaa ggcggaagtg gacgaggagg acgagcctga accggaattg 720
tcgctggcgg aaatgttcat gaaggtcgtt gaggaattgg aggggaactg gggatatttg 780
ctgacggaac ggtttgcgtc acatacgatc cgagtcttgt tattcgttct cgctggggag 840
cccgtcgacc tgtcatccac cgattcggtt gtcgccagcc ggaagaagga aaggttggga 900
atcgtgaaca cggaggcacc tgaggaaaag gccgctgcgg agaagcgtaa agtaccagaa 960
gttttcgagg ctacgctgaa aaaggttatg aatgacatgg tttccgggct ggataacacc 1020
tacttgagag cgctggcaac ccatcctgta gggaatcccg tcttacaggt gctggtgttc 1080
cttgagctgt cgcactttgg caaggcgagc gctaaggatc ctaactcaat catcatcttc 1140
aacacgcgcg gcgatctatc catgggg 1167

<210> 4177
<211> 363
<212> DNA
<213> A.fumigatus

<400> 4177
acggcgccct ctacctctcc gaaatggacg cctcaggcgg ccgcagcgcc ctcaaccccg 60
ctggtgcaac ctacggcaca ggctactgcg acgcgcagtg cttcaacccc ggtccctgga 120
tcaacggcga ggccaacacc ctcggcgcag gtgcctgctg ccaggagatg gacctctggg 180
aggccaactc gcgctccaca attttctccc cgcacccgtg caccacagcc ggcctgtacg 240
cgtgcaccgg cgccgaatgc tactccatct gcgacgggta tggctgcacc tacaacccct 300
acgagctcgg cgcaacggat tactatggct acggtctcac cgttgacacc gccaagccga 360
taa 363

<210> 4178
<211> 1002
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (15)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4178
ccgtctctct gcccngacaa ggtgacctgc agccagaact gcgtagtgga aggcatcacc 60
gactacagta gcttcggcgt gcagaactca ggcgacgcca taaccctccg ccaataccaa 120
gtacaaaacg gccagatcaa gacactgagg ccgcgcgtgt acctcctcgc cgaggatggc 180
atcaactaca gcaagctgca gctcctcaac caagagttca ccttcgacgt tgacgcctcc 240
aagctcccct gcggcatgaa cggcgccctc tacctctccg aaatggacgc ctcaggcggc 300
cgcagcgccc tcaaccccgc tggtgcaacc tacggcacag gctactgcga cgcgcagtgc 360
ttcaaccccg gtccctggat caacggcgag gccaacaccc tcggcgcagg tgcctgctgc 420
caggagatgg acctctggga ggccaactcg cgctccacaa ttttctcccc gcacccgtgc 480
accacagccg gcctgtacgc gtgcaccggc gccgaatgct actccatctg cgacgggtat 540
ggctgcacct acaaccccta cgagctcggc gcaacggatt actatggcta cggtctcacc 600
gttgacaccg ccaagccgat aaccgtcgtc acgcagttcg tgacggccga taacaccgcg 660
acaggaactc tggccgagat ccgcaggctg tacgtgcagg agggtatggt gatcggcaat 720
tcggccgtcg ccatgacgga ggctttctgc tcgtcgtcga ggacgttcga ggcgctgggt 780
gggttgcagc gtatgggcga ggctctgggg aggggcatgg tgcctgtgtt cagtatctgg 840
gatgatccga gcctgtggat gcattggctt gatagtgacg gtgccgggcc gtgcggtagc 900
actgagggag atcctgcttt catccaggct aactatccca atacggcggt gacttttcg 960
aaggtcaggt gggggggatat tgacagtacc tactctgttt ag 1002

<210> 4179
<211> 201
<212> DNA
<213> A.fumigatus

<400> 4179
acacaggcac catgcccctc cccagagcct cgcccatacg ctgcaaccca cccagcgcct 60
cgaacgtcct cgacgacgag cagaaagcct ccgtcatggc gacggccgaa ttgccgatca 120
ccataccctc ctgcacgtac agcctgcgga tctcggccag agttcctgtc gcggtgttat 180
cggccgtcac gaactgcgtg a 201

<210> 4180
<211> 384
<212> DNA
<213> A.fumigatus

<400> 4180
ttcgacaagt acatcgcaag gtcacgctgg aaacgcaacc gcatccggga ttgtgacgcc 60
gcgtccaagc agttctggtc gtgtatgttt ctcttccgcg cattctactt cgctgaatgc 120
acattacccg agacgttccc gtgcttcttc cacaagccct acagctctac ctccatggca 180
ggcaccgagt tcggcgaagg atacgcgggc gtcatcacgt ctttaggagt ccgctgtcaa 240
atccttaccc acaacgtccc ggatgccaac attcttagcc ttgttgaagc taagattacc 300
tcggttgatt tggctcgcat gctggtcatc atggaggcca cgcgagtggt caagcatttt 360
gagcgggttg gagagtggtg ttag 384

<210> 4181
<211> 444
<212> DNA
<213> A.fumigatus

<220>
<221> unsure

<222> (254)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4181
ctaatccgca ggagggttac atccgcactg tcgaactata tatctatcta tctatctata 60
tatatatata tactactgtc accccaccca gttcttggtg tcatcctgta catgacacat 120
ttctcatctt tgtccccacc agaccgagac agacaccgag acagacatgc cggacatcca 180
acccatcaca gtctacggca agggcggccc caatcccccg cgcgtggcca tcatcctcgc 240
cgaactggat cttncgcaca agatcatcga ggtgcctctc tccaagtcaa ggagcccgac 300
tatgtcgcca tcaatcccaa cgggcgcatc cccgccatct acgatcccaa caccgacctc 360
acgctggggg gatccggcgc catcgtcgaa tacctcgtga gcactacgaa tccgaccacc 420
ggatcacttt cccggcgggc ttca 444

<210> 4182
<211> 285
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (139)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4182
cacatttctc atctttgtcc ccaccagacc gagacagaca ccgagacaga catgccggac 60
atccaaccca tcacagtcta cggcaagggc ggccccaatc ccccgcgcgt ggccatcatc 120
ctcgccgaac tggatcttnc gcacaagatc atcgaggtgc ctctctccaa gtcaaggagc 180
ccgactatgt cgccatcaat cccaacgggc gcatccccgc catctacgat cccaacaccg 240
acctcacgct gggggggatcc ggcgccatcg tcgaatacct cgtga 285

<210> 4183
<211> 822
<212> DNA
<213> A.fumigatus

<400> 4183
ctagtacaga tcgttctcca ttcatcagac atgccctatg cggttctggg ggcgacagga 60
aactgcggca ctgccttgat ccagaacctc ctccagtcca gcaccagcaa ggtccacgcg 120
tactgccgcg acaggcgcaa gctgctgtac ttgctgcccc atctcgccga caacaagcaa 180
gtcgacatct ttgacggcag catccacgac ctgccactca ttacggagtg cgtccgcaac 240
tgccatgccg tcttcctggt gatctcgacc aacgacaacg tgccccagtg tcgcatggcc 300
ttggatacag ccactgcagt catccaggcc ctgcggatcc tccacggcga aggggcctcc 360
atgcccaaac tggtccttct ctcctcagcg accctggacg accagctctc ccagaatacc 420
gctccctggg tcagatggat cctcctcaaa tctgcctcgc aagtctacca ggatctgagc 480
caagccgagg cgtttctgcg ccagcagcaa gactggatct caaccatctt catcaagccc 540
ggcgggctct cggtggacgt gcagcggggc cacaggctga gtttgaccga agagaagagt 600
ccgctgtcct atctggacct ggcagccgcc atgatcgaag cggcggatga cccggatgga 660
cgctatgacc tgcgaaacgt gggcgtcgca tacacagatg ggccagccag gtttccccgg 720
ggagcgccga tgtgcatctt catgggactg gtgcgacact tcttgccttt tcttcatccc 780
tacctcccgg ccaccggacc gaaccaggga tttctgtgct ga 822

<210> 4184
<211> 924
<212> DNA
<213> A.fumigatus

<400> 4184
ccggctgtta gtggtcacat tactaaccat ctagatctgg tctatctctc gagtcttctg 60
gaagtggaaa tggccagtta ccgtcgtatc gaaaactata tccaggaact tccacaagag 120
gtttcttccc ctaaccttga tgcctgtgca gtagaacatt ggccaacacg gggattgata 180
tccattaaga acttcggagc cagctatgca ttggatgaga aggaggttct caagggcgtc 240
aactacagag cgaatgccgg ccaacgaaca gctattgtcg gccgcacagg gagcggcaag 300
acttccctgg cactgagtct gctacggcta acgactagga cgcgtggatc catatccatt 360
gatggcgttg acattgaagc ggttcccgtg gaaaagctac gacagagcat aagttttatc 420
cctcaagatc ccacactgct tgatggaaca atacgtttca atctagactt caacggagaa 480
tatgcggagg gatacctgca gtccattttg gatgacgtgg caggtacaag gaaatggaag 540
ctggatgaca cagtcgaact gaatggaaga aatttctcac aaggcgagag acagctcatt 600
accttcgcac gagttatggt gagcaaacac aaaattctca tcattgatga gggtactgct 660
agcttggaca aatcaagcga agaccgcatc atggctgtcc ttcgagaccg cttcagtgaa 720
tgtacggtca tagccatatc acacaggtta cacagcatta tcgattttga ccaagttctc 780
gtaataggcg acggccaggt gcttgaggcc ggaaaccctc gtcaacttct cggaggggaa 840
aatgttttca aagcattgta tttgcagcag tgtggcacgg atgctgtggt tagtgggaat 900
ctcagtggca ttcgccaatc ataa 924

<210> 4185
<211> 537
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (334)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4185
gggccgggga cgcgtatctt ccatcccgtg gtgaagacgc ggaagattga gtctctgcac 60
cactggaaca gctggtatac caaggatgtg gtaaagatga ccacagttgc tgctgctgca 120
ggtcgtaaat cagtccttcg gcggtgggtt ttcgaccagg aggaatatgt caacaactcc 180
actggcaagt ccgttcgcac gttctgggtc atgaccaacg gctattctct cgtcaagtac 240
acttacgatg aaaatacccc cgatgatgcg atcaactttg atcacactga gaagacttgg 300
gaggaagacc cccgtggtta tgagggtcgc ttangtcccc tccgtctgaa ggatcaagca 360
ggtgtcacca aagaccgctg gttgttgaga gaagcttatg tggttggtga caacgtacac 420
caatggtatg tgcgtgaaga ggatgagggc cacagtgtca ttgagattgt ctggctcgga 480
cctaagggag gtggtggtgc tggtgtacat gattatgctg tgagaaagca gcattaa 537

<210> 4186
<211> 321
<212> DNA
<213> A.fumigatus

<400> 4186
ttggtctggc gttgtgttgt tgccgcagcc gagaatggcg cactcaagat cggaatcaag 60
tgggttttcc gcaaagagca tattccgttc aaggtccttg actggttctg gctttccatc 120
tgcctgttct ggggaacttt caccccttgat ctgacatgtt atcccggtcg agtctttctt 180
ccacttctcc tacacactcc cacgagagac tttcttcttt atatgtgtct tgtaaaaata 240
gaatttcagg ctgagctggt gtcgctgctt ctggagatta gcgttgaaca tttgtcgtta 300
tgcaggaata tcatgacttg a 321

<210> 4187
<211> 198
<212> DNA
<213> A.fumigatus

<400> 4187
tacatagaca ccgtcgacgc tgatacgaaa cctggagacc tgttgatcaa gtactcccgg 60
cgcccggaga tggcctccgt tttcaactac gcctcaatgg ctcacaacaa ccacttttc 120
tttaactgct tggtgagtac ttcacagaga agaggaccgc tatctgaccg accacgtcta 180
atttgtttgt tgcaatag 198

<210> 4188
<211> 300
<212> DNA
<213> A.fumigatus

<400> 4188
tcacccaccc ccactcagat tcccgacaag ttcgccaagg acattatcga cacctgctcc 60
tctgtcgaat cgctgaagct cgacttcctt gcaaccgcca acgccatgtt cgggcccggt 120
tttgtatggc tggctaagaa ccttgagcgg gaaggattga tgcacatttt ctgcacctac 180
aacgcaggct cgccctaccc agctgctcac tcccggcgcc aaccggtaga tatggccacc 240
cacagtcccg atgcccctct tggcaacatg tacgccggct caatggtgcc cactccttga 300

<210> 4189
<211> 225
<212> DNA
<213> A.fumigatus

<400> 4189
aaacccgtcg ccgccctccc acgcttccag acacgacagt tgcaccgagt cccccagttg 60
acgcacgatg cgtacttcaa ggccaatggt attccggagc tattgtcgcc agaggcattt 120
gactttgctt ggacgcagta tcaaactctc ctcattgata aactgaatct cttgacacag 180
ggtgagacct tccgcaagac gtttatcttc atcgctctgg gatga 225

<210> 4190
<211> 561
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (209)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4190
tattatcgag aaattatccc ggactctgta tcaacgccgc gatacctgag tcgaagggga 60
tgtccaactt ttaaccagac acacacgacc gccacaatgc cgccattcat ctcctccctc 120
gctctccgca ccctccgtac cttagtccag cgtcattctc tcatagccat tccggcagtc 180
tcgaggccaa ttctctcccg gtttcaacnt gtcttccgca cgcccaccgc catcaccgca 240
gcaagagccg caggcgcggg ccctatcacc cggcatttct ccacttcccc tttccgccag 300
gcaacttaca atcaagtccg tcgtggatgc cgtgtatcgc agcgagcacg ccgctcgcga 360
tcacctgcgc ttgttggtag agcccagatg aagggtgtct gcctgaagac gggtattacg 420
aagcccaaga agcccaactc cggtgagagg aagactgcaa gagtacggtt gagcagtggg 480
aaggtagtga cggcgtatat tcctggtgaa ggtgggaccc tcccgagtgt caattgtcaa 540
cgtgataggc gattgtgcta a 561

<210> 4191
<211> 666
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (72),(77),(146)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4191
tcaagcttgc aattcctcga acagccgtca ctaacgcact cacagtctct ccgcatagca 60
cccccagcaa antatgntac ccaggcctcc aacacaacca ccagaaaccc caccgctcgt 120
ccatcaaaag gcgccccatc cgctcntggt ctccccgaca ccctccgcga caaaatcacc 180
ctcccagcac cggtgggacc ccccttttagc aaccaaaccg ccgtcccctc atcgacacac 240
ccccttgaag cccgcctgct cgcctggcgt cagactcagg atgccatgaa gatggagacg 300
ctccgccgcg catacgggat cgcggagcct gtgcggcgcg gcatggagct caagatcgtg 360
cgggacggta ctttccggcc tgctgtgttg ggcggaaaca aaggtggtaa tgtgcacgag 420
gacattctgg ttcttggggg acgggatacg gagattgact gggaggatat tttccaaggt 480
tggttgaatg tctgcatacc tgctgctgga atgacgaggc tgatactttt gatacaggag 540
acgagttccg ggaaccacct tccttccatg acgagatgga gaaaagactc cgggtggagt 600
tctgattggg gtgtcagctt gttctgcctt ctgcttaatt ttcgcatgag tcgttacgtt 660
ttctga 666

<210> 4192
<211> 231
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14),(19),(88)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4192
caccccagc aaantatgnt acccaggcct ccaacacaac caccagaaac cccaccgctc 60
gtccatcaaa aggcgcccca tccgctcntg gtctccccga caccctccgc gacaaaatca 120
ccctcccagc accggtggga ccccccttta gcaaccaaac cgccgtcccc tcatcgacac 180
acccccttga agcccgcctg ctcgcctggc gtcagactca ggatgccatg a 231

<210> 4193
<211> 204
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (199),(204)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4193
acaaagaatc tccattatta taaatctctg aatttaagct tgtcagcctt taatccacca 60
ttccaccatc accgacgccg aaatggtagg tcatgttctt tcaatcgcca tgatcagtac 120
tacataatca agcttgcaat tcctcgaaca gccgtcacta acgcactcac agtctctccg 180
catagcaccc ccagcaaant atgn 204

<210> 4194
<211> 258
<212> DNA
<213> A.fumigatus

<400> 4194
gattcaacta atagatgttt ttcagatata attcaaaatt tgctctctag tagcctcgaa 60
caatctggcg ataagtttta catcagacac gccccgatga gcagtcaaga aggtaatccg 120
gaaacccatt gtccgaatgt caaagcttgc gctaatattt atcagccaat gctcaagttg 180
ttctcttggc tgctgggtgc cttcaacggc tggatagctg tgcagtcaag gacacagggc 240
gttctagtat ttttctga 258

<210> 4195
<211> 192
<212> DNA
<213> A.fumigatus

<400> 4195
ctggcccccg aaataaaaca atatgttgtc gaatacctca gcaccagtgg agcattccaa 60
cactgtcagg aattcctgat gcaactggaa aattcgatcg tgactgaaat tgaccggatt 120
gagaaggtca caaacgaggc aaatccaatg ctccgactat tattggagaa gctaagtgtg 180
aaggagaatt aa 192

<210> 4196
<211> 291
<212> DNA
<213> A.fumigatus

<400> 4196
tcagtcgtca ttagaatgtt catctgcagt gtacgtttgc aaacatgctt aatagaaact 60
gaatccatga cagctaacaa tatgcgaaac tccaagaagt tgcacatggc tgccattgct 120
ttctcctgct ggggccgatt caatcaaggg cgaagactca tgcccgccta tggtgccact 180
gaaatgccag acttaaagaa cgcattccat gacagttcaa acaatctcgt cgacattacc 240
acttgttttt acctactatc cttctgctcc ccgggcaacc ccccagattg a 291

<210> 4197
<211> 222
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (157),(170)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4197
aggttgtcaa aaagacggat aaggaaatat ggtaccgagg ttaccggacg gatccgtatg 60
tttattatgc ctgcaaaggt ccaaagaaag aatctctcgg aagggacttt tgaagtggaa 120
ttccaccaag atctggaaag gtatgtacaa ttcccanaac ccaactccan ggttgctgaa 180
aatgtttgca aggccggcca atctggccca caagccaccc ta 222

<210> 4198
<211> 1206
<212> DNA
<213> A.fumigatus

<400> 4198
agacacgccc ttgctgtcca ggaaaagctc aagaatcact atattcccga aatcacctca 60
atccagtatg agggtaactt tgtcgagccg ccacgcccag ttccttggta cccggaccag 120
ctcgcatggt ggatgaccac ccctaagaac gttgtccggc gattcaagcc tttcgcctca 180

tttcagaagt tccttgtcgc cgagacggac gttggcaata tcactcgaca ggaggttgtg 240
agcatgattc ctccactgct cattgacgtc agacctggaa tgactgttct ggacatgtgc 300
gccgcaccgg gaagtaagtc agcgcagtta atggaactgc ttcatgcggg agaggaagat 360
gcgatgcgcc aggtcgcgca gcaagtgaag gaagggaagg cggggccgga acctatgggc 420
cccgagggtc tcgacgacga tggcagaacc accggccttc tcatcgccaa cgattccgat 480
ttcaaacgtg cacacatgct tgtccatcag atgaaacgac tgagctcccc gaatctgatc 540
gtcacgaatc acgacgccac tatgtatccc tccatcagac tgcctcctct cccagaacaa 600
gacggcaagc cccagaagaa cagatacctg aaattcgacc gcatccttgc tgatgtccct 660
tgcaccggtg atggtactgc caggaagaac attagcgtgt ggagagaatg gggccctgcc 720
aacgccctgg gtctgcacgc tacacaggtt cgaatccttg ttcgtgcgtt gcagatgctg 780
aaggttggtg gacgggtagt ctactccact tgcagcatga accctgttga gaacgaggct 840
gtcgttgcta gtgctattag tcgctgcgga ggctcggcca acgttgaaat cctcgattgc 900
agcaatgaat tgcccggact gaagagagct gctggcgtgc gcacatggaa ggtcatggat 960
cgtgagggcc gtatgtacaa cagctggaaa gaggtcgaag agcagaggga gcgtgaaggc 1020
atcaacggcc tgggccggat tggcgaaggc atgttcccgc ctactggaga gaatgcagac 1080
ttgcctctgg agagatgcat ccgcgtctac cctcatctcc aagataccgg tggtttattc 1140
atcactgtcc tcgagaagaa atctgaatct tcacgccggg gtacgaagca cacgcgtaga 1200
gggaat 1206

<210> 4199
<211> 321
<212> DNA
<213> A.fumigatus

<400> 4199
catactctgt ggcagggtgg ccggggcggc ggtgcgcgcg ggcagcgcca gaattacgcg 60
gacattccca aaacgaatga gaagctcgag cgcttctata ctgaacaagg cttcattcca 120
gaggaagaga gagaagcatt ctgggaagct ctgcgcaggg accttcccaa cagtttccga 180
ttcactggtt caaaagggta cgtcatggca ggtcgacatc tcccagctgc attgaactct 240
gacattttga agacacgccc ttgctgtcca ggaaaagctc aagaatcact atattcccga 300
aatcacctca atccagtatg a 321

<210> 4200
<211> 1116
<212> DNA
<213> A.fumigatus

<400> 4200
cctggctcat caatgtcggt ctccagtgag agccagagca cttctcctca cacctacgaa 60
gctgtgtctc ccgttgatat cgtgcgtggt cacaatcatt tcccaatgac agcctcttcg 120
caaccgggtg gagctcggac ggagcgaagc tcctctgaat cctctgtttc ctcgtcactc 180
aggagccctc gcactgctcg attcgcggaa gcaacatcgg tgcactcccc taccgaaccc 240
aggggtgctt ctacgtctcc gttcgcggac ccgccgggtc attcacagag tcagcccgat 300
gtgtctgacg tgggctttgg ctatgtcgca gctagcgatc ctgctcagca tgcatcgcat 360
cagcttcccc cagcatcacc tctcaagagc gccctcaagg tccctggcac gcctgggcgg 420
actttgaacc ccctgagtcc tacttttcgg gaagaatttt ttgtggagaa gcaagaaaag 480
gctactgaga aggagaatgc gagggacctg gtaagcggac cccgagaatc agcaaactac 540
tcccgaacct taatgctcac acactgctcg cagcgaatta aacttcgcgt gcgtttggcc 600
aagatattcc ttcgttttgt caatttcagt tgcagtctga tcgtgctcac tattctggca 660
acgactttga cgatattcca tgcgacaata catcttcctc ctcggaacga tttaccccca 720
tgggcgaaag ggacgaaccc atggccgcag tatctctttc tgtcattggc acgcatctcc 780
ctgttttcga gcctggttgt tttctgggcg tatcggaagg gtggtcacag gcgcgctgag 840
aaggtcgcag tctattacac agtgttctca gtctgcttct tcacattcag tgtaatcatg 900
tggatcgtcg cggcagccat ctatcagaat tccaaggcca acggcaacgg tcaagacgta 960
tggggctggt cgagcaagca gaacctccga gagcaattat tccataacga tatcgattac 1020
gcactgctgt gccgtctaca ggtaagtcga gttcttctcc caagtagtct tcgaccaggt 1080

tttcaccacg ggcctcgaag gatccgcact aagcga 1116

<210> 4201
<211> 378
<212> DNA
<213> A.fumigatus

<400> 4201
tcatggaaac agtcgaatga gatgtttgac ggatttactt actttgccat caatgaccaa 60
gggacagatc gccagatggt cagggctagt tattttactg tcgtacggca gattgctcga 120
atgccaggaa gttttgcagt cctcttgtct gatactctgg agtctgtcgc cccgaatttc 180
gtccaacctg tgtttcagct cttcaacgta gctgtcgccc aatgcgctgg gaaattgttt 240
ccacaacgcc tcactagttt caagctgatg aagaacccta ccaccgcctc tactccatct 300
ggacgcatcg tcgttgcctt tgttcgatca gcccgtcatt tttctcctca tttagatcct 360
tcagctgtat ttacctga 378

<210> 4202
<211> 1377
<212> DNA
<213> A.fumigatus

<400> 4202
agatcaagct tgctgccatt ggaagcaaag ctgaagttga agcagcttca gaaaagtcgc 60
gcacgctcaa actcgttgga atcgaacaat atacagtcca gaccgacatc cgcagttagc 120
ttctcgtcgc ggtcacaaga gcaggcatcg agacttagga gccctatcca cacaacacgc 180
agacacgagc cagatgatgt tcatgtccct ttgtcgcctg tcagacgagc ggctcctcca 240
attgaacctg cgtccccacg gagatacctt ctcggcttcg acaagggtct gaaaagtagc 300
gatgttagtc tcaaacgtcc gccaaactca cgcttgggga cacggccatc gagtatgcac 360
ggggctcttg aagctgcaat gtctcactcc ggcgatatct ttgcatctcg cgcgcagatg 420
ctggctgcag aggagagtgg gaaacggggc aagacattta gtgagcggat tgctgaaagc 480
cgaacagctg aaaagtctcg cagggaacga gaactccgac ttcagattaa ccgaagctct 540
gcgttccagt tcgacaagac ggagatggag acatttagga cagcagcggc tgaggcgaga 600
acaaacgctc ctcccaggtc accgacaaga agccgcctaa tcgagacttt cagcagagac 660
gatgttgtgc gatcgtttca gaatctcaag ccttccatca aacgaagcca aactgcacca 720
agtgtgcgca aagatgcagg ctccgaggga ccacggccat tttcccatag gcgacccaat 780
caatctgaaa ccggaccggc atcctcccag tctcgtggag atcctgtctc cgacattgac 840
aacgaaattc gagacgaagt aacaacgaag acaccagatt cgtccaagtt tgagccgtac 900
tcgtcgcttc acctgtcgaa tcgaatacta ccgcactcct ttttaactag aaccctctca 960
gacaagaaga ttcttcgcat tccagacctt ctgaggacag tgagagggcc agactttgag 1020
cttcccgaag agattgacgg agactacgtc gtgttcggca tagttgcctc aaagtcggag 1080
ccaaagcaaa tcaaggacgc aaaaaatgta tctgcaaaag aagttgatcc ctttgatgat 1140
gggctgaaca acagcaacag gtatatggcc atcacactca cagatctcaa gtggacaatt 1200
gacttgttcc tgttcgacac tgcctttcct cgatattaca ggttatcaga aggcatcctc 1260
attgccattc tgaatcctac catcatgcca cctcccaaaa ataagataga caccaatagg 1320
ttcagcctgt ccatttcctc atcagattct agcagccggg agtggaaact accggtg 1377

<210> 4203
<211> 609
<212> DNA
<213> A.fumigatus

<400> 4203
ttggcatttg cacccatctc tcgtatttcc gataatgggg aacaccatct gtatccctgg 60
cggtatgtac gatttcatct ctgcctgacc atgggcgtgg cagccctact atatgccaaa 120
aagccacccc agtatactct tagttcaatg gacctcgtca aagacgtctc tctgcttatg 180
gcaacatatc tcgttggact gttcgcgtcg ctcctcctct accgaacatt gttccacccc 240

ctccgccaga tacgtggccc ctgggcagcc aagatatctt cattctggtt atccttccgt 300
ctgaggcgtg ggccatcatt ccggatcctt catgaactgc acgaggaata cggccccgtc 360
gtgagggttg gaccctctga agtgtctatc atccaccccg aagccgtccg gatgatctac 420
ggacccaact cccgctgttc aaagaacacc ttctacgaca acggccatcc gatgatgtcg 480
ctacattcct accgggaccg aatagcccac gaccagcgcc gccgggtctg gagcgcgggg 540
ttcggggatc gggctctgcg tggttacgag cagcgcatgc gggtctatcg tcagaagctc 600
ttcgtcttc 609

<210> 4204
<211> 324
<212> DNA
<213> A.fumigatus

<400> 4204
tatgttggtt tcatttctct ttccctggcc ttgaatgtgc taaccgctgc ccgcgcttgc 60
agtgtcggat ggattgaccc tgagcacact gcccccccga tccatttctt cgagggtgat 120
cagggtgatt ctgctattgg tgtctacagc gtgcagtata cggcaacgga cagagttgcc 180
tggagtggta ttccaggcac agagaaatgt cccttcgagg ggctgtgcaa cccccagtat 240
atcttctacc acaacggcta tcaaatcgtt ctcaatacat ggcgtgagtt ccgtgaacgg 300
ttccttgatt caatggctct ctaa 324

<210> 4205
<211> 240
<212> DNA
<213> A.fumigatus

<400> 4205
gttgtacctg aatgcatcca agttgtccat gtagtagctg atggaaactc gactcaaaac 60
tacagagagc gcgacttact acaccgggtt tttacggaga agagagtcgg gatctatgtc 120
ggagtagacc caacagctcc atccctacat gttggccata tgcttccgtt catggtgctg 180
gcctggggtt atgtctgggg tctacctgtc acctatctgg tcggtcctgc ctcgccctaa 240

<210> 4206
<211> 330
<212> DNA
<213> A.fumigatus

<400> 4206
cgtctgaatc gcgtggacat cattgctgat aaacaacagc ttggcggggt aacttctcga 60
atcggtgatc ccactgggag gttgaaagga cgagaggcga tggattcttc ggtccggaaa 120
gcaaatatgg cgagtatgca catgcagttg aaaaagttgg gcgcctctgt ggagcaatac 180
ggcaggaaac acggatatca caaagagaag atctggcggc gagccttggt gaacaacaac 240
acatggtgga attcgacatc gttactggaa gtgctacggg acctcggcgc ccatacgcgg 300
cttggtccca tgcttggtag agagacgtga 330

<210> 4207
<211> 522
<212> DNA
<213> A.fumigatus

<400> 4207
acaacaacac atggtggaat tcgacatcgt tactggaagt gctacgggac ctcggcgccc 60
atacgcggct tggtcccatg cttggtagag agacgtgagt ctattactct ctttcattca 120
gtcggccata cgattactga cctcgatgat tatagtgtga aaaacaggat gaccaaagga 180
gacggaatgt cttttgcgga gtttacttat ccactactgc aggcatggga ctggtgggtg 240
ctgttccgaa aaggtgttca ggtgcaggtg ggaggttccg atcaatatgg gaatatcctc 300

ttcggcatgg acgccgtgaa gtctatcagc aagaatactg cgatagaaca ggaccgaaat 360
cccctggaag atgatttaga taaacccatt gggttcacta cgccactatt gacagccgcg 420
aatggcgaaa agttcggaaa gtccgctggt aatgccgtct ggttggacaa ggacatgaca 480
tctacgttcg agctttacca ggtgagccaa tctagctcct ag 522

<210> 4208
<211> 954
<212> DNA
<213> A.fumigatus

<400> 4208
atccagtcga gagtgccccc aatcaaagcc gagaacggtc agaagaaacc acctgctgtg 60
tcattcatcg cgcttcagct tgaacaagac gcaatcagac cgaaacgggg tatgtacgaa 120
ggtacggatg ctgaaattca cagagtcgaa ggaggaaagg atgacgcgac agtggcaaaa 180
cgaggggaag attttgagga ggttgacgag acgttcagct atctgcgacg gccagagcct 240
ggacagggcg acaaggagca gcgcttcatc cggtggtcgc agtccacgga gattggagac 300
ttcatccggg atgccgcacg ggccaaggag ttcatcgtaa cgattgaagg tgcaccagcg 360
gggctggaac agattcacgt tgccgtgccg tcattcgatg agaggacgta tttcctgcgg 420
atgaggttgc ggaagatctc tggcagaatc cagggtcttg cggagatcaa gcatgagtgt 480
gacgcactgg cgcatcgggg tgctcaacgg gtggcccttg gcgggtttgg cattctcgcc 540
ttttggtggt acattgtcta caaactgacc tttgagacgg acctggggtg ggatacgatg 600
gagccggtga cctatctggt cagcctgtcc actttgatgg gtggctacct ttggttcctg 660
tatcacaacc gcgagatttc ctatcgttca gcgcttgatt ttacaatcaa tgcgcggcaa 720
aagaaactct accaaatgaa agggattgac cttcaggttt gggaatcact cattgatgaa 780
gccaatgcga tacgcaggga aatcaagaac atcgcggccg agtacgacgt tgattgggat 840
gaacgaaagg acgagcagga cgaccgcgtt accgaggctt tgaagaaaga gagaagactc 900
aagaatggat ctcagaaaga agagcggcca aacgatgaca gagacgatga ttga 954

<210> 4209
<211> 456
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (84)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4209
ttactgaagc aggccgttgc agccgattcg gcaatcggca cttcattgtg gatgactgtg 60
gaatcatgcc cagcagacaa cggncaggtc ctgctttccg aaattttgga tgagttcgaa 120
tggcaattcg gattcaagat ccttcgcagt ggcccctccg aaaccaagaa agaaggggaa 180
aagaaagagc ccgcgcaaaa tgccaacaag ggttccatgc agaacgccaa ccccagcaaa 240
cagggcattg agaaagacta tgatctaatt acaaaggcac gggaagtctt gaagagcaag 300
gagaccaaca ggattggcat caaagacgtg gctgaagctt ggaacctggc ggacactgaa 360
ctctggcgct tcgtcagagc ttaccggtac gtgcttccat gcccctaca cccaatgcct 420
aggagacagt tcattgacaa agttcactac gaatag 456

<210> 4210
<211> 240
<212> DNA
<213> A.fumigatus

<400> 4210
agagcaagga gaccaacagg attggcatca aagacgtggc tgaagcttgg aacctggcgg 60
acactgaact ctggcgcttc gtcagagctt accggtacgt gcttccatgc cccttacacc 120

caatgcctag gagacagttc attgacaaag ttcactacga atagggcccg aagcgtcgtt 180
gagcgaaaga aatgggaggc agaagagaag gattttgttg gtgctaaggt cagagaatag 240

<210> 4211
<211> 279
<212> DNA
<213> A.fumigatus

<400> 4211
gccccggttg acattccaat ggcgcccgga agcctgaccg cgccggttgt tgaggagcaa 60
ccttccaagg ctgtttcctt agcccagttg accgaggact gggatgacac aattcgtttc 120
taccttaatg gcacaaaagt catactcgat aatgtcgatc cagaactcac tctgttagaa 180
tacttgagag gcatagggtt gacgggaacg aagctgggtt gtgcagaggg aggctgcggt 240
gcctgcacag ttgtaagtca ggacgacatc gacatctga 279

<210> 4212
<211> 246
<212> DNA
<213> A.fumigatus

<400> 4212
gcctatcttt gtgacagaaa ttcttacttc ttacaggtcg tgtcccacat caatccgaca 60
accaagaagg tctatcatgc atctgtcaat gcttgcctgg cgccggtgat aagtgtggac 120
ggcaagcatg ttataacggt tgagggtatc gggaatgtga agaagcccca cgcggttcag 180
cagcggctcg cgatcggaaa tggcagtcaa tgtggctttt gcacacctgg aatcgtcatg 240
gtatga 246

<210> 4213
<211> 234
<212> DNA
<213> A.fumigatus

<400> 4213
ccatactttg cagcttccta tgcgacgcgg aacaccgtat cggcaatgaa ggcggccaat 60
tcggtggtgc tacacaaatc aagaaccacc cattcttacc gtggagtggt atgggagcaa 120
cttcgtaata tccgcgctcc cttagagccg aagctcagct cgaacatcga tgtttcgtat 180
taccccatag acgagattcc ggaggaagat accaacgcta ttcaccgtgc ttaa 234

<210> 4214
<211> 531
<212> DNA
<213> A.fumigatus

<400> 4214
tgcctttcgt tgccttcgaa cagttctgcc gagctcgaca agatgatccg tgaccctagt 60
atttccaagg aaaagaagcg ccaggaggcc gagattgctg caagaaagga gtcaaccttc 120
ctacgattcc tccgaaccaa ggagacacct gccaacttcc agaccatcaa gattatcgga 180
aagggtgcct ttggtgaagt caaactcgtg caacggaaga ccgacggcaa aatctatgcc 240
ctcaaatctt tgatcaagac ggaaatgttc aagaaggatc agctggctca cgttcgtgct 300
gagcgtgaca ttctggcgga ctccaaggac aacccgtggc tcgtgaagct gcatgcctct 360
tttcaagaca gcgcctatct ctatctgctc atggagttct tacctggagg tgatctgatg 420
accatgctca ttaagtacga aatcttctcc gaggatatta cgcgatttta tatggcagaa 480
atcgtaatgg ccatcgaagc cgtccacaag cttggtttcc tccatcggtg a 531

<210> 4215
<211> 546

<212> DNA
<213> A.fumigatus

<400> 4215
tcttatacag atactaactc ggccgcgttc agtgacatca aacctgacaa cattctgctt 60
gaccgaggtg gtcacgtcaa gcttacggat ttcggtctct caactggagg caagaaaact 120
cacgacaatt catattacca gaatcttttg aagaactcga cttcgaagga taagaatcgc 180
aactccggat acttcaacga tgcaataaac ctgacggtct cgaatcgggg gcagatcaac 240
acctggagaa aatcccgccg ggccatggct tattcgacag tcggcacacc tgattacatt 300
gcacccgaaa ttttcaatgg tcagggatat acctatcttt gtgattggtg gtctgttggt 360
gctatcatgt tcgaatgcct tgtgggttgg cccccgttct gtgccgagga taccacggat 420
acctaccgta agatcgtcaa ctggagagaa tgcttgtatt tccccgagga acttacgctg 480
tcccgcgatt cggaatcgtt gatacggagg tatgttccag tacccgtttg cagctttgtg 540
acttga 546

<210> 4216
<211> 630
<212> DNA
<213> A.fumigatus

<400> 4216
tcgtttgcgc ttatagtcgt acacttcccg tctaccagta ttcgcagtct ttggtatcac 60
gattctccat tgaatgcatt gttcaattgc aatatcttct ctatgcctgt gttcaccgaa 120
tacgccgcct cgtcgcgtga actgcgcgtt ctgccttcat ttgcccctcc actcccccgt 180
ctttccccgc gatttacgcg tcctgaaggg atcgaaaagt atgaagtcgt cattgtcggc 240
gctggtccag cagggctgat gctacacctg cttctggcac gatatggcct caatgatgac 300
tctctgcttt gtatagacgc gaaaccgggc acgctcaaat cgggccaagc ggacggcctg 360
cagccgcgca cgctcgaagt cctcaaatcg cttgggctgg cggacgagat cctcactgat 420
ggctgtcaca tggaagaggt tgcgttctgg aatccgtcac ctgacaagga gaaggtgatt 480
gagaggacgt cgatcgttcc tgatgtggct gtgcctgccc gctttcaaca tgaagtcaca 540
atccaccaag gtcgcattga gcggatcctc gaaacagatc tgctccggta ttcgaaaaga 600
ggcgtgcagc ggaacaccaa gcttgtggac 630

<210> 4217
<211> 219
<212> DNA
<213> A.fumigatus

<400> 4217
tcgccctccg atcggctcat tgtctctctg gtcgacactg tcatcgcgga cagtggatcc 60
tcagtggggc attctttgga tactaccgta aactttacta gcattactcc ccggtcgtat 120
gcctctgaag tatgttttac aagaatgacc actttcaaga ccaaccccgc acaggaaaaa 180
ctgaatccac tacggagtaa catatccaga accatctaa 219

<210> 4218
<211> 537
<212> DNA
<213> A.fumigatus

<400> 4218
gttgcactaa agcgattatt gcgtagttat gaagtgccgc caacttctac tccatccaga 60
atacctccta cacagacatc agataatgac cgcttgagga tcgctcattc actgtgtctt 120
ctagtgttcc tccacattcg agctcaacaa agcattttaa atgagtcatt cttccagacc 180
ctggagaaaa tgaaactcaa ctctctcatc tctttcctct gcattgcggc gagcgcgctt 240
tgtacatcct cagaccctaa taagtacgag aaatacaaat cagtatctcc tgtcgcgccg 300
attggattga cggatgttac atatcatgat ttgacctcaa aaccccgcga cttccatgtc 360

gcggttcttc taacagctac tgacgctcgc tatggttgcg cgctatgtcg cgagttccaa 420
tccgagtggg acctcattgc acgaagttgg aataagggct ccaagtcaga cgatttaaag 480
ctgctcctcg ctactctgga tttcagtaat ggcaaggaga ccttccagaa ggtataa 537

<210> 4219
<211> 429
<212> DNA
<213> A.fumigatus

<400> 4219
aagatgttta gtccattatc tgccgaccaa ctctacacat ggatcagccg acatcttccg 60
gaaggtgcaa aaccacctct catccgccca atcaattaca tgcgaattat ctctgcaatc 120
actctcctta tgggtgtgat aactttgttt acggttttgt ctccgtatgc cttgccgatc 180
ataagaaacc gaaatctgtg ggccggcttt agcctgattg ctatcttgct gttcaccagt 240
ggccacatgt tcaatcatat ccgcaaagta ccctacgtcg taggtgacgg caagggaggc 300
attagctatt ttgctggtgg attctctaac cagttcggca tggaaacgca gattgtcgct 360
gccatttgta agtcgttcac gttccggagt cttcaccaca ggggccgagg aacgcgcaag 420
gttcggcgc 429

<210> 4220
<211> 189
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (8)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4220
tgttatgncc ataccagcaa agaaggcacg gatcacgcga agaacaaggc gtgtatctac 60
cggccaaaag atgggacgga tgtttttgat gtctctttag tcctctgcag cgacccttgc 120
aagttattta tcaaaaaaat taccggggtt cttttctttt ctaataccat ggttctatct 180
gagaggtag 189

<210> 4221
<211> 204
<212> DNA
<213> A.fumigatus

<400> 4221
tcatggacac aaatacctta ccgtcaggaa cgggtattgc gtcatacgga ccagttagta 60
agacggacag tttgggatcc gaacagcgag aaccactccg tacctactaa ctccgtcggt 120
actctctatc caccaagtac taagtttaaa catccgcccg ctccgatctt gtgtgtcttc 180
tggttcggga tttccctcaa ttga 204

<210> 4222
<211> 186
<212> DNA
<213> A.fumigatus

<400> 4222
gatgtccggt ttaatttcat gcagcagaca tggtttcaag ttactctgcg ttatctgtcg 60
cttaccttac tctccaaggg ttttttttcat tccaacttta gttccagagc gtacatccat 120
ggccattctt cccttgacga atcagcagcc ttctatacaa aggcaaagct aacaatgtct 180
agataa 186

<210> 4223
<211> 219
<212> DNA
<213> A.fumigatus

<400> 4223
catgagtccg ttgtactaca ggttctgcgc tactcggctc tcgttgccgg tctcatttat 60
ggcgtctacc accagaactc tatcacagct caagccaagc aagcagaggc cgatcgtgaa 120
tatgctcgac aggaacgctt gatccagcag gccaaggcag agtggaagaa gaagacggcg 180
cccaaggaca ccaaggcaga gagtgggggt aggttctga 219

<210> 4224
<211> 228
<212> DNA
<213> A.fumigatus

<400> 4224
ttttctgttg ttcttctaac ctatagacct tcctccgaga cttgtacata ccctggggtg 60
gctgtgtatc tgtacactat agttggacca gaagagcaag aaatgtgtgg tctctccggc 120
tttgccgctc atctcctatc tccgggcact atcaactact tcgtgcaggt tgtatgcgac 180
gtcgcatccc gtcttcaccg accggggctg gcaggtcacg cgctgcga 228

<210> 4225
<211> 414
<212> DNA
<213> A.fumigatus

<400> 4225
tttgacgtgg cgagcagatt caacattgtc aagtccggca acatgacaga gacagtcttc 60
aacaaggaac gtcacatcaa atactacctc cgctgtctca agactttcct cccccaccag 120
tacacctcca atgactccaa tcgcatgctc ctcgctttct ttacgatctc cgggctcgac 180
attctaggcg cgctcgatag caaaatcacc gccgaagaac gaaaaggctt catagactgg 240
ctctatcact gccaggttcc atcgggggggg tttcgcgggt tcacggggac agattttggt 300
atcgacaagc gcaccccgga gaacgaagct tgggacccgg cgaatgtgcc ggccacattc 360
tgggccgctg gtagtgctac ttcttacagc cgcccggctg gaaggaaacg cgct 414

<210> 4226
<211> 489
<212> DNA
<213> A.fumigatus

<400> 4226
agccaggatc tggggattgg cacggtgttg aaaggcatcc tggacctatc tgagcctgac 60
acaacgacta tggtcaacaa ccccagtgac cctgtgggcc tggattgggg gaagctccat 120
tggtcaatca agcctcctaa ttctggtcaa gaatatgcta agggctgcca gatcctgtac 180
acacagcgtg tgatcctcac tggtcatttg cgtcaaatca ccgtctcatc cattaacatg 240
gaggacacag tccacattac gggtctgaaa ctttccttcg acgatgggac caacacacaa 300
ctcggttaca gatctcagga caattcttca accgacgtcg tagcctttgg gggattcgtt 360
gtcgcagtag ggacgacagg aatccatggg ttgcagataa ttgacaatag atcggactcc 420
actaaatggt ttggttccaa ccggagatgt cttcaccgcg gggctggaag gagccgctcc 480
aaaggtgaa 489

<210> 4227
<211> 201
<212> DNA

<213> A.fumigatus

<220>
<221> unsure
<222> (10),(148),(149)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4227
gtatacctan tacggagatt catgcaaaca agactgccaa tcagcttcaa aaagtatctc 60
gttgcaatca accttgtcaa ccaatcaccc cttgagtcaa cactttccag tctccccatg 120
ttcatggtcc tagtgtcttt cattgaanna aatccacctg ctggaagggc ggtcccgcgg 180
aatcaaatac ctcggacatg a 201

<210> 4228
<211> 969
<212> DNA
<213> A.fumigatus

<400> 4228
tccagtgagg cagctgtgat gacatcttcc atgagcccac tgccctccgc aatccccagg 60
accattcctc gacccaatga cctccaatct agtcagagac aaacgacatc aagcagagtc 120
tcgccaaagc cagaacctga gcttcccaga cccaaattcc gtcttcacct gaatgatctg 180
cgtcatccgg ctacgctatc gttcatatcc ctggtccccg atgttgcatc aaccctcgac 240
accgcgctta aagcaattgt acgacacctc tatacaccac cctcactttc gccaaacgag 300
tcgagcaacg ccccagcgag gaaatgtccc agaccgtcct tcacaccatg tatccctccc 360
acccgctccg tgacagtcct cgtccgcgat ataagtgggg tagcgtacac caccggcatc 420
gagctcgatg atgaccataa ggaaatccac ttgtccctgt catacgtcaa gaccagtgcg 480
gagaacaatc cagaccctgc agccgaaatc accggtgtgt tgacccatga gctggtccat 540
tgctaccaac atacaacgcc gaatggggat gaaagtgcct ctgtgcctcg tcctccgggt 600
ggcttgatcg aaggtattgc cgattttgtt cgtctgaaag cgggccttga gcctccacat 660
tggaagcgac caacatccgc taaggaacga ccatcaaagt gggatcaggg ctatcaacac 720
acggcgtact ttctggcgtg gttggaggat gtgcgggtcg ggaaaggtgc tgttggcatg 780
ctgaacgaca gactgctgag agtcggatac gtaggcgagg attcggagtc tgaaaatcaa 840
gacacacaaa gcttctggag gggcctgttc gggaagggca tctcggagct ctgggaagaa 900
tatggcgaat atttagatcg ctctaggaat agtggtaatt gggaggacga gatcatcaat 960
cccgagtaa 969

<210> 4229
<211> 309
<212> DNA
<213> A.fumigatus

<400> 4229
tgtaagtcca ttgatattat gtttctaagc cgccgtaagt cgaaccacca agtaacagct 60
ggtagaggcg attcctgcca tcccatgctt ccatatcttg cccagggcgc taattcatcc 120
atggaggatg gagcggccct agggacgatc ttaaagtccg tcacaaggaa ggagcaactc 180
ccgaatgctt tgcatacgtt tgagaagctt cgcaaattaa ggagtgaggc tatagctagg 240
gaaacattca agcaggtatg cactatcgtc ttctaccacg gaggctggcc ggacccgcgc 300
ttaggttag 309

<210> 4230
<211> 738
<212> DNA
<213> A.fumigatus

<400> 4230

gttggtgccg gccttcaagt gacccctaat ggctcgcgcc tgctcagaat ctgggacctg 60
cctcaaacct tgtgggatca ggccgctgag ccaacccagt tgaccgttca tcgatattct 120
ggggcagtgc tggcccgtga ggtggacttt gataagaata tccggagaaa atatggggtg 180
cctttcgttg atctacatcg aggcgacctg cagcaaggct tgtaccaacg ggctcagcag 240
ttgggagtaa aattccatct gaacgcacgc gtacaatcgg ttgatcccgc agtgccatca 300
ctaactactc tttcggggca ccaataccac gctgacctca tagttggagc tgatggcttg 360
tggtcgcgaa ctcgagaatg cttcctaggg actgctgatc cgcccaaacc aacaggagac 420
ttggcatatc gaattgttct gtctttggat caaatcaaac agtcacctct acgagactgg 480
gttagccacc cggaagtcca tttttggatt ggtcccagat cccacgctgt tggctactcc 540
ttaaaggcag gcaaaatgta taaccttgta ttgcttgtac cagatgatct ccctcctggc 600
gtcacgaagc aacctggaaa tgtcgaagaa atgaaactgc tgttcgaagg ctgggatccc 660
gtgtatgcag agtttgacct gccactttgc cttccaacat tcatgactga ctcaattcaa 720
ggctcactca acttctag 738

<210> 4231
<211> 453
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (280)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4231
cgccggtgtg ggatgtcgaa gaagctacac gcaactggtg agaaggcccc accggcggct 60
gggggtgtta gcgtcgcgtt caagcaggtc ttcttctcct atccggcacg gccagagtcg 120
ccagtcctgc acggcctgga cctgagcatt caacgcgggc agttcgccgc gcttgtgggg 180
ccaagcggcg ctggcaagtc cacgattgtc tcgctcgtgg agcgcctgta cgctcccacg 240
gcggagaccg ttgcgataga cgggcatgac attgcatacn gggatacctc gttccgctct 300
gctattgcct atggtccgca gcaaagcgtc ctgttcaatg gcaccattcc gattcaacct 360
gacccctcgg ggcgagaccc gggcaaacag gtcttccaag aaagaacctc agggaagcgt 420
tgcaaagcca gccaacatcc cagacacgaa taa 453

<210> 4232
<211> 936
<212> DNA
<213> A.fumigatus

<400> 4232
gagcaaggaa cacaccggga cattatggat gctcgtggcg agaatgccga gctcgttagt 60
atgcagaatc tcaacatcaa cggtagcgag gagggtaata gtaccgccgc ggcgagctcc 120
aaatgttcca cggaagagat ctccgagaag gccggggccc ttgagacatc gaccgtcgct 180
gatgtccccc atgctgatac tcgggaacca gcagatgaag tggtggaagg ggagcgaacg 240
ttctccgcga ctgcacagtc gatgggtgcc ctgttgcgac cgtactcctt cgtgctggtc 300
atcgccactg ttggagcaat cgttattggc ggcacatact gtggatcggc tctgatcttc 360
gggaacgttg tcagcaagct cagttactgc gaagaacctg gctccatccg tcatgcgggt 420
gaattgtttg ggctgctgtt tttcatcctc gccatcgttg agttcactgc caatttttcc 480
agctggtcac tctttggctg ggttgccgag caggttgtgt acaaggtgcg cgtcctcagt 540
ctgcggtcca ttctcgaaca ggatctggca tggcatgaat ctcaaggccg gaacccatct 600
ctgctccttg ggctgattac caaggacagc accgccctcg gaggcctgac ggggtctgtg 660
atctgcacgc tcctgtccat cttggtcagc cttgtggcga ctatcaccat gacgcacatt 720
attgcctgga agattgcgat agtatgtctc tccgttgtcc ccctgctcct gggtgctggt 780
tacatgcgtg tcaccacgtt agcccgcttt gaagaggaac atctggaagc gttcgcaaac 840
tccaacgcca tcaccgtcga agccgtcaaa tccatcaaaa acggtgatgg cgcttttact 900
ggaacacgaa aaatcttgga ccatacccgt cgttaa 936

<210> 4233
<211> 480
<212> DNA
<213> A.fumigatus

<400> 4233
cccgctttga agaggaacat ctggaagcgt tcgcaaactc caacgccatc accgtcgaag 60
ccgtcaaatc catcaaaaac ggtgatggcg cttttactgg aacacgaaaa atcttggacc 120
atacccgtcg ttaatttcaa gaaaccgatg cgccaaatca caaagcacag tgcctgggcc 180
aatctgtggc tggcggttgg gtacggtctg agtaacttcc tctatgcgtt ggcctactgg 240
tggggatcaa cgcgcattat ggcaggcgaa tacactccaa cccagttctt catcgtgcag 300
ctcgctctcc ttgttagctc ccagctgtgg gggcaggcgt tcgccctcgc gcccgacgtg 360
tcgcgcgcat tcagtgccac ccgacgtcta ctgaacatgc tcgacatggg atcgacgaag 420
aagctctcgg cgcctctgac gccggtgtgg gatgtcgaag aagctacacg caactggtga 480

<210> 4234
<211> 870
<212> DNA
<213> A.fumigatus

<400> 4234
acaaagaaaa ttaaatgcga cgagacacct ccatactgca atcagtgcac cagacggggg 60
tacgattgcc ccggatactc gcgtccgctc aaatggtcat cgaagtatga ggtggcaaac 120
acagagctag gatccaaaag caatgcaaga cggaaacggc tcgattgttc ggacagtgat 180
gataaagtac ttcgactcga ggtgatgtta tcgcacaaca aaagacagac tgaaatgcag 240
cgcgatgtct ttgccgctga agaacataca tcatatgcgg caggcaagga gcaaagctca 300
ggagatacag tgcaatctca tttacaagag gatgatctag agccgaactt agctctacca 360
atattttcca atgttgagtt caatgacctc catttggacg tcacgtcgtc gttggagcat 420
gaactagacg cgtcaacttc agttacgatg ctgtggaacg attcattcac accgacttta 480
ataacattcg aggatcgaaa tacgagtctc ttgaggcatt atttctctgt gatatgtcac 540
attaattgcg cttttgattc cgaaaagaac ccctttcgag tctgtgtctc cgacatgatg 600
aagggctgcc ccttgattta ccattgcgtt ctgtcaatgt ctgctgcgca tttagccacg 660
caggtcttag aagtgagttc agaggctttg gagcatagga cgaaagctct atcctgtctg 720
caagcacaga ttgccaagat gggtaagggc aaaggcccta gcgatgatta cgcctcttct 780
ctcaacttgg gagcgttgtt tgggagcatc ttactgggca tgacagatgt tagactcgca 840
agggcatcgt acctattgaa ccggagctaa 870

<210> 4235
<211> 234
<212> DNA
<213> A.fumigatus

<400> 4235
accgaaggcc ccctgggctt ttacaagggc cttagccaaa atcttctaaa attaacaccc 60
cccgtttcga tcaactacct tgtttttgag aacccaaaca caaagcttgg aattgagata 120
accaccttaa ttccccggtc caaaaaaagc ttttttcttt tttgcttatc ccttttaatt 180
ttttcccttt tggaaatttg tgtcagaata cccattaaac cccaattgcc ctaa 234

<210> 4236
<211> 450
<212> DNA
<213> A.fumigatus

<400> 4236
ctaacccgcc ttagccgaat gcaatgtgac accgttgagg gtggtttgaa aggcaatcaa 60

ctcatcgcag ctactgctcg gaaagtgtgg aacaaagcag gtttcctggg ttttttcgt 120
ggtttgcctc taggcctcgt tggcatgttt ccttatgccg ccatcgatct gtcaaccttt 180
gaatatttga aacgcgctct ccttgcgcgg caagcccgga ttaaccactg ccatgaggaa 240
gatgttcctc tcaacaactt cacaacagga gcgatcggtg ctctgagcgg cgggttcagc 300
gcttccgttg tttacccact aaatgtcctt cgtaccagac tacaggccca aggcactgta 360
ctccacccca caacatacac cggtatcact gatgttgcgc caaaaacact tctaaaccga 420
aggccccctg ggcttttaca agggccttag 450

<210> 4237
<211> 1002
<212> DNA
<213> A.fumigatus

<400> 4237
acgagacatc gcccagatac gcatattccc acaattttgt tcgatattga tgaagtgttc 60
accattcccc catccaaagt ttactccacg tcgatggagc agaccgcagg ggaggatcaa 120
ggcgttgttc tatgcggatt ggttcgttat gggtctatct cggtgggaga cgaactctta 180
gttggaccgc tccgggccac cccacaggcc gagcccgaga acttttgtc agccccaaga 240
agccaatcaa gccgaagtag accgccatcc gaggagtttt ctacgtcttt ttcacaggga 300
tttctgtccg gaaaagcaac tttccccgct caagcaatct ggcaacgtgt gcgagtcgtc 360
agtgttagga acctgcggtt accggtgcga actcttattc aagatcaggt cggcacaatc 420
ggtattgagc tcctttcaac tcaaaacgag cacactccgc gtttgggaaa ggtacgaaag 480
ggagccgtcc tagccgactt tggacccagc ggctcgcccg caaaaccctc gcttttccac 540
actggatttg ttgctagctt ccccgcgagc gagttcacgt ccatgtctcc gcctctactg 600
ttaggtggca acgctattgc ctatgtttcc aatattcggg ctactgtgaa ggcgacttgt 660
gttactcttg cagaggatga gattatatct tctccgccat cgcctacgga gccggacttc 720
ttcagctttg acagtgatgc tgttgatcgt gtgaaggaac atgtgtcaga agtgactaat 780
gtggtcaact cggctaagaa tgcaagtcac ggagacgtga aaatctcatt ctcctttgtt 840
acgtcggtcg aatgggttga atccggttct cgtgtgcttg tcatacctgg gtcttctaca 900
gtgttgtcct ctacacaagg ctccgcacca ccttttggtc ttgggggctt tgtcggtaga 960
gtctgcaatg tcatgtcttc ggaactacag gagagtagat ga 1002

<210> 4238
<211> 408
<212> DNA
<213> A.fumigatus

<400> 4238
gagccgttga aactgcctct catgtcgtcg ggatctgcgt ttcaacctcc gatagagatt 60
ccaactcgaa agagctccgc cggtatggcc gaccgtctgc atacaagctc atctgtgatg 120
gatggaagcc agttgcaagg tgaggggcct cagaccaaca tggactcttc cagaagacat 180
acgcggaacc gatccagctt cgatggcacc aaatatcgtg atgggaaatg gtcgcaggag 240
tacgagaaga tcctgatggg cccgtatgac tacatgcagc aacatcccgg caaggatatc 300
cggcggcagc tcatcaccgc tttcaatgtc tggcttcaag tccgtccgga gagcctctca 360
atcatcacca aagtcgtggg gatgcttcac accgcttcgt tgctgtaa 408

<210> 4239
<211> 798
<212> DNA
<213> A.fumigatus

<400> 4239
tttacgtttc ctgccagggt cgatgatgtg gaagacaact ccatcctccg ccgcggcatt 60
cccgtcgctc acaacatttt cggtactgcg caaaccatca actctgccaa ttacgtatac 120
tttctggctc ttcaagaagt tcaaaaattg aataacccga ctgctattga tatcttcgtt 180
caggaattat tgagcctgca tcggggtcag gggatggatc tgttctggcg agacaccctc 240

acctgtccta cagaagagga ctatctggac atggtgggga acaaaacggg cggtctcttc 300
cggctcgcaa tcaagctgat gcaagccgag agcaccaccg gcatagactg cgtgagcctc 360
gtcaacgtca tgggcctgat ctttcagatc tgcgatgact atctcaacct ttccaacaag 420
acttacaccc agaacaaggg tctatgtgaa gatctgacgg agggcaaatt ttcgttccct 480
attatccaca gtatccggtc caacccacgg aaccatcagc ttatcagtat tctcaaacag 540
cgaaccaagg acgaggaggt caagctgtat gcgattagtt acatggaaag taccggcagt 600
tttgcctaca cgaggaaagt ggttcgggaa ttccgtgaca aggcgttatc tctcatcgac 660
gagattgacg cacagtgtga tgggaaacag gccgaggggc agaaggatgg ggcgatggtg 720
cgggcgattc tcgacaagat caccgagtcg actttgcggg atgataatgg cgctgatgat 780
gctggtggcg gcaaatga 798

<210> 4240
<211> 348
<212> DNA
<213> A.fumigatus

<400> 4240
ggggggggaag atataaagcg cctgtccagc ggactgcgac tcccatcatc aaccaagtct 60
ctcaattcat ctactctggt agcattgact ttttttcccc tctcagttct gcgaactata 120
ctgcttatcc ttttccaaat cagcatgtat caaaagagcc ttctcttctc cctgctcgcc 180
agcagcgccc tggccgccca gttccccatc cccgactcca aaggcagcgt gacctttgac 240
gagccctacg aaatcgccgc cggcgagacc tacgacggtg gctacaagac ctacggccgt 300
ggtgtctcct gcaccgtctt caccacgggg ctggaaggag ccgcgcca 348

<210> 4241
<211> 417
<212> DNA
<213> A.fumigatus

<400> 4241
actggccctg tccggcagtc attgacctcg gtagactact atacctggac gagagatgct 60
gctctcgtca cgaaagtcct ggtcgacctc ttccgcaacg gcaacctggg tctgcagaaa 120
gtcattaccg aatacgtcaa ctctcaggcg tacttgcaga ccgtgtctaa tccgtcgggt 180
ggtcttgcga gcggaggtct cgcggagcct aagtacaacg tcgacatgac ggcctttacc 240
ggagcctggg gtcgtcctca gcgtgatggt ccggctctgc gggccaccgc cctcatcgac 300
tttggcaact ggctgattgt atgttctcca tacgagcccc aggaagcgtt gctgacgtct 360
acaggacaac ggctagtctt caccacgggg ctggaaggat gcgcgaccag cgaattc 417

<210> 4242
<211> 498
<212> DNA
<213> A.fumigatus

<400> 4242
gaatgctacg aagatagtcc agcagagcat accaaaaatt cactcaccgg gaatacattc 60
gagacacacg acgacgacgg cgacaagaca tgggcagtca acatctataa gaagagggat 120
cacaccccca agttgccccc tgcgtcagga ttcagaacga tcaatctcat tccgtccccc 180
tcttcctcct ttcgtctcct cctgtgtttg caaaccgtct gtaaccgagc tatgcctcgc 240
ctttcctacg cgctctgtgc gctgtctctc gggcatgctg ctattgcagc tcctcagtta 300
tccgctcgtg ctaccggcag cttggactcc tggttgggta ctgagaccac cgttgcgctc 360
aatggtattc tggccaacat cggtgccgac ggtgcttatg cgaagagcgc taagcctggc 420
ataatcattg ccagtccgag caccagcgaa ccagactgtg agaaccttcc tgaactggcc 480
ctgtccggca gtcattga 498

<210> 4243
<211> 315

<212> DNA
<213> A.fumigatus

<400> 4243
cgacacccca acaccctgga agatggcaca acatcaggtg ctcttacgag gtattttata 60
tcttcgacct tgccccctgc ttcggacatt tcggttcact ttcacagctc accatacact 120
atatcctcat tgttcaacca acacttcatg atggccactg acattgctac aagggagctt 180
cgcaagcctg ttgatgttgc tgagtatcta tttcggcgtc tccatgaggt tggaattcgc 240
tcagtgcatg gtgtacctgg tgagcgatcg tcttcaccac ggggcggaag gatccgcggt 300
agtggcaact caatg 315

<210> 4244
<211> 240
<212> DNA
<213> A.fumigatus

<400> 4244
tttagcggta tcttcggcta catcaattac cttgtcgaga gagatcgtaa atacatcatt 60
gatacgttgc tcaatggtat gggtttccct ccatttgctc taatagcaat cttacagtat 120
gaaatgcagg actctccaga cttgaatacc gcggttacga ctcggcaggc tttgcggtgg 180
acggtgacaa aaagaatgaa gtttgcgcct tcaaggaagt tggtaaggtc gcgaaactga 240

<210> 4245
<211> 243
<212> DNA
<213> A.fumigatus

<400> 4245
aatgcaggac tctccagact tgaataccgc ggttacgact cggcaggctt tgcggtggac 60
ggtgacaaaa agaatgaagt ttgcgccttc aaggaagttg gtaaggtcgc gaaactgaag 120
gagcttattg aggaatccaa gcccgatatg acgaagactt tcgagtccca tgctggtatt 180
gctcacacgc gctgggctac tcatggaaca ccctctcgcc agaattgcca ccctcaccgg 240
taa 243

<210> 4246
<211> 774
<212> DNA
<213> A.fumigatus

<400> 4246
gtgcatcagt ggtctcagca agtcatttgg cattcgacgg gcaactataa ttctgatacc 60
ttcactgaac taacgcacat tttgtccgac aggtctgatc caaactggga attcgcagtt 120
gttcacaacg gcatcattac gaactacaag gaacttaaag ctctgctaga gagcaagggg 180
ttccggtttg agactgaaac tgacacggag tgtattgcga agcttgcgaa atacttgtac 240
gaccagcagc ccgatattga gttcacagtt ctcgccaagg ctgttgtgaa agagctcgcg 300
ggtgcttttg gtcttctcat caagtctgtc cattaccctc atgaggtaat tgcggctcgc 360
aagggttctc cgctcgtcat cggcgtgagg acgtcaaaga agatgaaggt ggacttcgtc 420
gacgtggagt attcggaaga tggacctctt cccgctgagc aggcttctca gaacgtagct 480
atcaagaagt ccgctaccgg gcttctggct ccacctgata aatcccttct gcaccggtcg 540
cagtcgcgtg cgtttctttc agatgatggc atcccccagc cagcagagtt tttcctttct 600
tctgatccct ctgcgatcgt tgagcacacg aagaaagttc tttatctcga agacgacgat 660
atcgcccatg tccatgaagg ccaactgaat atccaccgtc tcacaaagga tgatggtacc 720
tcgaacgtgc gcgctatcca aacaattgag ctggagcttc aggaaatcat gtaa 774

<210> 4247
<211> 285

<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (271)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4247
ggcaaatttg atcatttcat gcagaaggaa atcttcgaac aacccgagtc agtcgtcaat 60
accatgagag gtcgattgga tgttgcaaac aagcaagtca cacttggggg actccggcag 120
tatatttcca ccattcgtcg ctgcaggcgg atcattttca ttgcttgtgg aaacagctat 180
cattcatgta tgggcgtacg tggtgtcttt gaagagctca ctgaaatccc catatcagtt 240
gaacttgcct cggacttctt gggacgggca nggcgctggt tttcg 285

<210> 4248
<211> 297
<212> DNA
<213> A.fumigatus

<400> 4248
accttcacta ttgtgtcagc ttttcatctg tacgcaaccc aagacaccct tgaaaagcgt 60
gcgatgcaga acccaatgac tttcgatgaa ggtaccaagt gtctcaagtc cttcagagac 120
ggaatggtga ggtactatca agagctgggt gatctcctca ccctggacag cttcaaggtc 180
gtctttgatc cgggtacgta tacaaccacc actttcaaga atatgaatgg attcacaggg 240
tggcctctta ccagagtaga ggcccaaacg aattccaggt ttttacccgc caaataa 297

<210> 4249
<211> 1434
<212> DNA
<213> A.fumigatus

<400> 4249
tgtggcgcgg ctccttccag ccccgtggtg aagaccggcg agatgagcaa gcctacttcc 60
aaccttcctc ccttcgcttc ctcgtcgacg gaacaatcag ctgctgttac cgaattagcg 120
ccacttattc aagagctcaa agctatctgc gataattgcg acaagcagac gtttgcctcg 180
cagcaatttc ttaccgcgac tgaatctttg ctacgcctgc gtcatacctt ccttgataat 240
gatcgtccaa gagaagccca ggaggccttt cgacatctta atggcttcga gacgttactg 300
cagctcgtga agaagctctc gcatttgtac gagccgacag agttatccgc cgaagagaga 360
agatctctct tgaccctcta taaagatgct ctagccgtcc tggctgagag cttgaagggg 420
aatttcggga atagacgtta ttttgcgaga cggatatctg gcggaggtac agcagctctg 480
caggaagcac tggacataat agtcccgaaa ttgagcagcg ctcagggtga cacggaacaa 540
ttttatggtg gcatcctggc cgcggctctc tgtcaggaag cggttgctga tatctttacc 600
acactcaacg cgaagtttca gccagtccag gaattgcttc agcaggatgt taaggcggaa 660
gttgatcgac gcatggggag ctcggagacc gtcgaggtgc cggaacttttt ggggccgttt 720
ctgaaagggt ggttgaagca atcggggtct tctccttccg actacagagt tcagaggcta 780
gttttgcccg cctgtctgtg tcagttggct caccagtctc aaagaaatct gacagcgcta 840
cacgccactg ggatattaag ctcaatactg cctattctgc tcggaagtga ccgcctagaa 900
tcagagagaa taatttacca ggacatggct caacttcttt gtgctcaagg attaactagt 960
ctggaggatg cggctacctt gtatcgacaa gcccatggtt gtgcaagaat actacgattt 1020
cttgtcgatg ttctgaagtg ttccaaagaa ccgccattga tacagttcga cctgtcactc 1080
catgggtatt cctccttgga gttttcgacc ctgggtcgac catttcctcc cgttacttcc 1140
tcaggttata ctattgcagt gtgggcccga tttgatagat tcgatccaag tacacacact 1200
acaatatttg gcgcctttga cgcgagtcaa tcatgttttt tactggtgta tctcgaaagg 1260
gacactcgca actttatttt acaaacttca atcagaggaa ctcgtcctag tgttcgattc 1320
aagtcgatgg ctttcgaacc gaaccgttgg tatcacatat gtgtggtgca taaaaagcct 1380

aggccaccat cgcattcccg ggcttctttg ttcattgacg gcgaatttgt cgag 1434

<210> 4250
<211> 360
<212> DNA
<213> A.fumigatus

<400> 4250
aattctcatc tgggtgagtc gctgttgcta atatctcctt taggtgccat caaggtgatc 60
aagggccagg gtatgccctc ttaccgccac cacgactttg gtaacctgta cattcaattc 120
gatgtcaagt tccctgagaa ggatcagctc cagaacctcg gtctcctgga gagggtgctg 180
ccacctcgta tggagcagcc tcagcctccg gctgattcga tggttgaaga tttcgaactg 240
gaggacatcg acgccagcga aggctctcaa agacgcgctc acggcgccgc caccgccatg 300
gacgaggacg acgatgatgt tcctcctggt gcagagcgtg tgcagtgtgc ttcgcagtaa 360

<210> 4251
<211> 597
<212> DNA
<213> A.fumigatus

<400> 4251
gaagaatttc taggaagtgt atcaatgtgc gggccctttg ggatatttcc aggggtctta 60
cttaagatcc cttgcgagcc agatagtaga aaattaactg taggcaagct ttcagatgac 120
attataccag ctattaagaa tatctctaag aagcacgggg tggtaacctc taggtctata 180
ttcctccact ggttctacat catcatagat gcgctcaaat cattgttggc gggccattgt 240
caaggacaaa ttcccaggat ggaaagcatc agatgtgaag ttcaaaagtt gaaaactcgc 300
agccagtcct gtttcactcg ccaaggagcg cgtgatggag gttacccaac taaatataat 360
atgtatttgt atttaatcga ccgcgctagc caacctatct tgcatgcttt atgtcatgta 420
tttctgattg aagaccagca ttacagcaac caccctgact ttagttcgct ctctccacta 480
tcttactctg ccaactccat gagccgtaat ggtcgcgtgt acggcgctgc cgcctcgacc 540
tgtatcaggt cagggataag aagtgctgtg agaatagaca gcctgttcgt tagttaa 597

<210> 4252
<211> 186
<212> DNA
<213> A.fumigatus

<400> 4252
agacccaatg ttgatttgga attgtttccc tccaaagtga tcaagaacaa gcgagtatat 60
aaactcaact ataagctcag agtcaccttt ggcgcgcgtg agggtgtgct caagttcgaa 120
gccgttagcc agggccagac tgttggtcag acaagcatca attttagtgc agccaagtac 180
tattga 186

<210> 4253
<211> 273
<212> DNA
<213> A.fumigatus

<400> 4253
aaccagtgga ggaatataga cctagaggtt accaccccgt gcttcttaga gatattctta 60
atagctggta taatgtcatc tgaaagcttg cctacagtta attttctact atctggctcg 120
caagggatct taagtaagac ccctggaaat atcccaaagg gcccgcacat tgatacactt 180
cctagaaatt cttcttatgt tgctgtgaag attctaaagg ctaaagcttc tatttcagag 240
ggccctatag aactaagtat gttgatgtct taa 273

<210> 4254

<211> 276
<212> DNA
<213> A.fumigatus

<400> 4254
ctctcccgca gcgcgtgtcc ttctagcccc gtcggtttaa gacagtgtgc cccagaactc 60
gaactggagt tcggcttctc cgccctcatg gatatcaaca acagaggttt gacctctgct 120
aattctaacg ctcggcatct catgaatggt ttttgttatg ttcttgtgtg ccttgcattt 180
tccactggca ccgtcgctta ctgcggtaat ggtgaatata cccggtcttt ccgcgatgcg 240
tcggaaatta gttgtacggg aggtggcctt ccttga 276

<210> 4255
<211> 1281
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (158)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4255
ggttgggcca attggataag aaaccgaact gtgtcagcct tgcaaggtgc aaaggttgat 60
attccgctaa gactaagcgg tgaccgacca tggccgttca ctacaagaaa tctagacgat 120
gactcccctg ctatgaagaa gacgttctgg caggaaanca gtgtctgtca agtgacgcag 180
aaaggacact ataatctcat tggcgtgacg gacagctctt gccctgggtc tgttgaccaa 240
gcagctaggg atttcgaagt ttcttggata cctcggcccc atattgctgc tgtagacggc 300
tcccctgtgg taattggaag ccccatcgag aagcgcgacg tttgtcaagg tgaagacgat 360
agtgtggaac ttcgcctgac cggcaatccg ccatatacca ttcaatgcga acaacaacgc 420
aaaatgggcc gtggcacgtc ctctattcga acaagaagtc ttaagacggc ccttcatgta 480
acatctatgg aaatggacac gtctgaagcc gggttataca cgtacaaatt caaggaagtc 540
ggcgacagcc tttacgacta tgacccaaga agtgagcctg tgcttgtgac gcaaagagtg 600
aacccattgc catctgcgcg gtttaactct cctggccaca tttacgggtt ctgcaaagag 660
gatgtcagtg gcgaagaatc catccctgtt actttggagg gcgttgcgcc gttcttcctg 720
gaaatcatta tcaaacacca ttcgaacgcc aaaccagagg ttgtgtcaat acccaacatc 780
agctccaatc gatacaatct acctattccg cgtcgttatt tgaatctggg ccaacacgtc 840
gtgagcattc acaaggttcg agatgcgcga ggttgtcagc gaactttcga gaacgatgcc 900
tcaacagtca gagttgccgt atccgatgtg ccgacaatca ttccgctcga atccaagatt 960
gactattgcg ttggggagcg cctgtctttc tccctgtccg gccatgcccc gttcgacgtg 1020
ttttacacgt ttgatggggt ttcaaggaag gccacctccc gtacaactaa tttccgacgc 1080
atcgcggaaa gaccgggtat attcaccatt accgcagtaa gcgacggtgc cagtggaaaa 1140
tgcaaggcac acaagaacat aacaaaaacc attcatgaga tgccgagcgt tagaattagc 1200
agaggtcaaa cctctgttgt tgatatccat gagggcggag aagccgaact ccagttcgag 1260
ttctggggca cactgtctta a 1281

<210> 4256
<211> 1416
<212> DNA
<213> A.fumigatus

<400> 4256
gggggtaatt gtgcggattc gggcctcctc gtgagagaag acgcttcttt cctcatggcc 60
gcttccctga agacgagagg ccgccgccgc gtgatagact cgtttgctcg aggcgatata 120
tgggcaagca gaccgccagt tgagggcgtc atcgacaatc tagacgattt cttccctgat 180
atcgaccttg acgcacctta ccttgatgga caaggggtat ctcctccgtc atcccccgca 240
aacagggccc cgcctgagaa tgatttgcac aagaaggaaa accagcccag ctcatcttac 300

accggagaga tgaatgccaa cgcaggagat acgctgggct ctaacgagcc aactctcaaa 360
ccacaaggtg gagatgttgt agctcgtcgt aacatcaacc ggtcaggagg gggacttact 420
cgaggaaagt caatccgaga ggtcgccaag ggcgccaacc aagctagccg aagtcgcagc 480
atccatactg gaaaccagaa gtccggtgag attcttcggc gtaagagcac caaaatgttc 540
ggagcaaaga ttatgcaaat caagccaaag cctggcagtc gtctcagcca actcgacccg 600
attcctcaga acaacacacc atcgggggta cctcagcgac agcctacttt ccgcattatc 660
cgcggccagc tgattggcaa ggggacatac ggaagagtct acctgggcat caatgctgac 720
aatggtgaag tcttggccgt aaaacaagtt gagatcaacc caagacttgc tgggcaagat 780
acagaccggg ttaaggagat ggtcgccgct atggatcaag aaatcgacac gatgcagcac 840
cttgaacacc cgaacatagt gcaatatctt ggatgtgagc gcggcgaatt ctccatttca 900
atctatcttg aatatatttc aggtggttcc attggtagct gcctccggaa gcatggtaaa 960
ttcgaggaga gtgttgtcaa atccctgact cgtcaaacct tgagcgggct agcatacctt 1020
catgaccagg gaatattgca tcgtgacttg aaggcggaca acatccttct cgatctcgac 1080
ggcacctgca agatttctga cttcggtata tcgaagaaga cggatgacat ctacgggaac 1140
gactcgtcga actcaatgca agggtccgtt ttctggatgg cacctgaggt catacagtca 1200
cagggtcaag gctacagcgc caaggtcgat atctggtctc tgggctgtgt ggtactcgag 1260
atgtttgctg ggcgccggcc atggagcaaa gaagaggcga tcggtgccat ttttaagctt 1320
ggaagcttga gtcaagcacc tccgattcca gacgacgttt ccatgaccat cagtcctgca 1380
gcgctggcgt ttatgtatga ctgtttcact gtgtaa 1416

<210> 4257
<211> 1101
<212> DNA
<213> A.fumigatus

<400> 4257
tttactattt caagcatatc ctcctcgttg agaagggatt gcttcctctg gccactcacc 60
atcgttttat cagctttacg ctttatgtta tgggtaagtt ttgatcactt actctacaag 120
accggacctg ccactgacac tgtccacttt ttaggattcg tcttctttgt ctcatcgctg 180
caaaaaggtc actaccgttt tcaattcacc cagtttgcgt ggacacacat ggcactgtac 240
ctgatcgtcg tccaagcgca ctttgtcatg aacaatgtct tcgagggcat gatctggttc 300
ttcctcccag cctccctcgt cattacaaac gacatcttcg cctacgtgtg tggtatcact 360
tttggtcgca ctcagctgat ccagttgtca cccaagaaga ctgtggaggg gtttctcggt 420
gcatggattt gcaccattat tttcggttat tttatgacca acatcctgat gcgctacaag 480
tactttatct gcccggtcaa cgacttggga tctaacgtcc tgaccggact gcaatgcaac 540
cccaaccctg tctttgtgcc tcagccctat tctctcccag aatggactgg cctgtccaag 600
accttctatg ttgagcctat gcagttccac atcctggtgt ttgccacctt tgcctctctc 660
attgcgcctt ttggtggttt cttcgcatcg ggcctcaagc gcaccttcaa gatcaaggac 720
ttcggtgaat ccattcctgg ccacggtggt atcaccgacc gcatggactg ccagttcatc 780
atgggcttct tctcctacat gtactaccac agcttcattg cagtatacaa ggccagtgtg 840
ggggatatca tcgaggctgc catcaacggc ctcacagtgg aggagcagtt cgaagtggtt 900
cgcggtttgg gcaaatacct ctacaaccag ggaaccgttt ccgagacggt atgctcaatt 960
gatttttttt ttttttttct ttttggcac gaaaggacca cctgctcaca gatcatacag 1020
atactggatt gccttaacgg cgagttgaaa cgccgtgaaa tgatcgctat gacatctcct 1080
tttcctgccc ggggcccttg a 1101

<210> 4258
<211> 465
<212> DNA
<213> A.fumigatus

<400> 4258
tccgggagga ggggggccca ccagggcagt cggaatcagt tgaatcattt ggcaataggg 60
aggctgatat actcggccag aaacaggaac agcctcaatg tcccgaatat gagagagaag 120
aagcagacat tcatcactcg gacaatatgg acgtttgtga tgattttcct cttcttcatt 180
gccatgtttt cgggccacat ttacatcatc ggcatcgtca cggcagtcca gatcatttcg 240

tttaaggaag tcattgccat tgcgaatgta cccagcaggg agaagaacat ccgctttacc 300
aagtcgctca actggtattt cctggcaacc accatgtact ttttgtatgg agaaagcgtg 360
atttactatt tcaagcatat cctcctcgtt gagaagggat tgcttcctct ggccactcac 420
catcgtttta tcagctttac gctttatgtt atgggtaagt tttga 465

<210> 4259
<211> 1449
<212> DNA
<213> A.fumigatus

<400> 4259
ggcgaatcct tactctacgc aatcatgtct tcctcaatgc gctcatcccg tcagaggata 60
tcgagcttgt cccgtcctat tcgcactagt cgtacccgag tgcaatcata tcttgaagat 120
agtagttcag atgatcgact ggatgaagac acagactctg atcaggaacg atctagacga 180
atgtcgcttt cgctgcgtcc acgcagttca aacagagccc ccgtttctta tcgcgaggaa 240
tctacagatg atgactttga gcgatcttct aacgaggacc attcagcggt cgcacccgtt 300
gaagctccca ctcgatacac ctatccgttt ccccaatctg ctggtaatgg cacatcttcc 360
cggcccaaac gcaatcgtac ggtcaaaacc aggtcccaga ctagcaagtc caaaaggccc 420
cctgccaaga accgcctgga attgggtagg cctctcaaca agcgtccaaa agttcaggca 480
gatgacatgc tcccaatcgg ctctggagtc atcccaccct ggcacaccct tccgtaccac 540
atattgtttg acatcttctt tcgggcatcg tttccattga tggatgagaa gacaacaacc 600
agaaacagtt cgacgcaatg gcttgtgagt gttgccttgt tgtgtcgcgc ttttcatgag 660
ccagcattgt cagccctcta ccattctccg cctctgatac ctatcaaatg ccatgctctg 720
ctcaacctgc tatgtcagcc acaggagaca ctttcaacca attatagaaa taagatacaa 780
gagttgcaca tcgacgtgga gaccctgttg ctccacaaaa gcggaccaac gctcggttat 840
tttgatcttc ctaagcttat cgaaaagaca cctcaagtaa agaaagtgcg gctgtatcac 900
aaagatgact tcattgtggg tctcgcacca tggcagatac aacgatctaa atgggtctat 960
ccggagagtc tattcgaatc gatcaatacg agcttgatac acctgcgcag ctgggattgg 1020
aacagccggt ttatggaagc gaagcaactc attcccttcc tcctcggcaa acatcatgac 1080
caggcgttcc ggggcttgcg cgagttacga ctgttgcatg tcgcttcaga agatattgat 1140
cacgatggaa gtgcagagcc atccaacgag cgggaagtga ttctcgctac cgcgattaag 1200
gagctcccat atctgcgtcg tctggaattt tccgagtgct cgattgtcaa cgagcatctt 1260
ctcctcaata tgccctcggc acttacgtcc ctcactatca acaactgcga tgaagtgacc 1320
acctcgaacc tcagtgcatt tctcgctgct catgggcagc atctccggga actcaacctt 1380
aatcacaaca ggcatttaag tatgtcattc gttgtaggtt ttcaccacgg cctggggcat 1440
ccgagttcg 1449

<210> 4260
<211> 798
<212> DNA
<213> A.fumigatus

<400> 4260
aattggacga ttagttacgt taaccgctct gagacctcac gcttacaggg cagccagagc 60
gaggcagacg gcaacgacag cgccgcagat ggagcccgag agaccgctgg cagcgttgct 120
caggatgttg gaagtcgaag gagcagagga gctgccggta gaggaagagg actggccgga 180
ggcaccggag gcaccagagc ccgaagagcc cgaagagccg gaagagccag cagcggagcc 240
agaagaggag ccggagatgg cgctgctaga gggacgggcc gacgaggtgg agttccagaa 300
gccggtgccg ttgtaggagc cgccgggtcc tttgccgacg gtgaaggtgg gcttagcaga 360
gttagcggca gcggtagtga aaccagaagc cttgccgccg atcacggacg aggccgaggg 420
gccagcggtg gaggacgcgg cggcggagga agaagaagaa gcagagcagg agaggtcaaa 480
gagaggggtg gtgctcagag tgctgccgac gataccgaag ctggggttgg gggtcaccgg 540
gtcggcatcc tggaggatgt accaccaggt gttggtcttg ccgaacaggg ggcatcccac 600
ctcgtcccag taggtcttgg cgttggccag gttggcgacg gcgagattct cggtcttgcc 660
gctgacgggc cagccagtct cggtaatcca gacctccttg cccttggcaa cagcctgggt 720
cttggccaca gattcatcga agagagcctt ggcatcggag atggagtctt caccacgggg 780

cggaaggcgc gcagttaa 798

<210> 4261
<211> 762
<212> DNA
<213> A.fumigatus

<400> 4261
ctgggtttaa ctgcgcgcct tccgccccgt ggtgaagact ccatctccga tgccaaggct 60
ctcttcgatg aatctgtggc caagacccag gctgttgcca agggcaagga ggtctggatt 120
accgagactg gctggcccgt cagcggcaag accgagaatc tcgccgtcgc caacctggcc 180
aacgccaaga cctactggga cgaggtggga tgccccctgt tcggcaagac caacacctgg 240
tggtacatcc tccaggatgc cgacccggtg acccccaacc ccagcttcgg tatcgtcggc 300
agcactctga gcaccacccc tctctttgac ctctcctgct ctgcttcttc ttcttcctcc 360
gccgccgcgt cctccaccgc tggcccctcg gcctcgtccg tgatcggcgg caaggcttct 420
ggtttcacta ccgctgccgc taactctgct aagcccacct tcaccgtcgg caaaggaccc 480
ggcggctcct acaacggcac cggcttctgg aactccacct cgtcggcccg tccctctagc 540
agcgccatct ccggctcctc ttctggctcc gctgctggct cttccggctc ttcgggctct 600
tcgggctctg gtgcctccgg tgcctccggc cagtcctctt cctctaccgg cagctcctct 660
gctccttcga cttccaacat cctgagcaac gctgccagcg gtctctcggg ctccatctgc 720
ggcgctgtcg ttgccgtctg cctcgctctg gctgccctgt aa 762

<210> 4262
<211> 252
<212> DNA
<213> A.fumigatus

<400> 4262
tatcgagatg ctctcctgtc ccccacgctg acagcattgc cctttgtgtc cccgcgaacc 60
cactccctca ggatactgat ttgggcgaaa gcctcacgtc ggggaggcat cccggcactg 120
accctgacga ccaatacccc tgagccccaa ctcactgacc ccttgccgac agaaaccatg 180
gctcactatc ctcagcatat ctcggctcgg gccggaggtg gttataagta ttatagcatc 240
aaccatttct ga 252

<210> 4263
<211> 339
<212> DNA
<213> A.fumigatus

<400> 4263
gacaaagtga cgtgcctggg ttttgagtct ctgctaacgg aaattcccaa ccccccttgaa 60
ataggctatg acttttggca tacagctccc ctaccacggt tcaacgttcc ctcggtcaga 120
gtcagcgatg gtcccaacgg cgttcgagga accaagttct tcgacggcgt ccgcgccgcc 180
tgtcttcctt gtggcaccgg cctcgccgcc acgtgggatc agtctttgct ttacgatgct 240
ggggtgctca tcggccaaga gtgcctagcc aaaggtgctc actgctggct agtaccacag 300
tgtgtatcca acggtcgccc cttgggggca aagggttga 339

<210> 4264
<211> 231
<212> DNA
<213> A.fumigatus

<400> 4264
gtccgattta tacggtattg ccatctagaa gaacaggcag tggggatgag ggcacatgcg 60
ggggagaagg ccgttgcgcc ctcggtgaac agcaacaacg atgagagcaa catgcgcaca 120
ccagaacagc agccagaaga gaaaaaccta gaagagccaa ccttcgacac aggtgccctg 180

gcatggctgc aggtccttgg atcattcttc ctattcttca actcctggta g 231

<210> 4265
<211> 1146
<212> DNA
<213> A.fumigatus

<400> 4265
tcgctacgtc gtcttagggg tgtgatcaat acatggggcg ctttccagac tttctatgaa 60
caaaatcttc tctcgaatgt ttcgtcatca tccattgcct ggattggatc tctgcaatcg 120
tttcttctga tgctctttgg agtagtgacc ggcccgttgt tcgatgcagg atactttcga 180
gctctcgtca tatttggcac cttcgtgctc ccatttggct tgatgatggc caatatttct 240
tcacagtatt ggcacttgat cctcggtcaa agaatctgta tcggcctggc tgctggatgc 300
ctgttcgttc cctcggttgc tattctgcct cagtacttca agcagaagcg aggtttagcc 360
aacggactgg cggcgtcagg cagcagtatt gggggcgtgg tctatccgat aatgttcaat 420
aagctacagg accaaattgg gtttgcgtgg gcgactcgcg cactgggctt cgtagctttc 480
ggaacctgct gtgtctccct atctctcatg cgcatgcgat ttctgcctac cgagaaacgc 540
aagttggtcc agctgtctgc ctttaaagac ccagcattcg tgatgtttgc cgttgccatg 600
tttctgggct tcctgggctt ctataacttc ctattttacg tgcagtccta tgccatcgac 660
accggaatcg tcgatgcaaa tctggggttc tatctgctct ccatgctcaa tgcgggctct 720
accgtggggc gaatctttcc caacttcgtt gctgatcaca ccggcccact taacatgctg 780
acgccagctg tcacagttac ggcagttctg gcctttgcct ggattggtgt gcacaatgtg 840
cccggcatca ttgttctctc cgtcctgtac ggtctcttct ccggtgggtt tgtctcactc 900
ccgccggtag tcatggtcac gttgacgaaa gatatccgcg acctgggtac tcgtctgggc 960
atgatttttg ccacgacctc aatcggcttg ctgatcggaa caccaattgg tggagctatc 1020
ttgagtaata cccataatta tctcggggtt cagctcttta ccgcttgctg catcatcact 1080
gctgccgcca tttttgcagc cctgcgattc tcacgcactg ggccccggtt acttgtcaga 1140
gcatga 1146

<210> 4266
<211> 228
<212> DNA
<213> A.fumigatus

<400> 4266
cttagcggcg gagcttggcc cccctgtggt agaagaccag ccagttcttt tgcttgggtg 60
actccaatat ttgaacttta ctgtgttgct agccccaatg ccaatcgcaa tgcacttgca 120
cagagtgcaa gtaaggttgt ccagtgggta caacgggagg aagaacggtt gttcataatt 180
ggtggagctg taggtcattc ccaagaggga cctttggccg gatactga 228

<210> 4267
<211> 249
<212> DNA
<213> A.fumigatus

<400> 4267
gtgctgttcc tagaccagcg cggtacaggc atgagctcga cgataacggc tcgaactctc 60
gcccttcaag gcaatgcagt aaaacaggct gagtacctga agcaattccg tgcggataat 120
attgtccgtg actgcgaagc tatccgtcgg tgccttacta cggactaccc cgaggaccaa 180
cgcaaatgga gcatcatcgg ccaaagtttc ggtgggttct gtgctgtaac gtatctttct 240
atgttgtaa 249

<210> 4268
<211> 312
<212> DNA
<213> A.fumigatus

<400> 4268
atctataagg acatgtttga gtcatacacc gaattgcagc aagtcaaaga cgttgcaaac 60
atccttgcta cgacggccga gtggccccag ctttatgatg aggctcgact ggcggacaac 120
gaagtccccg tctatgcagc cacctacgta gaggacatgt atgtccactt tgacctggcg 180
tcgaagaccg cggcaaagat caagggtatc aagcaattca tcacaaatgt tatgtatcac 240
aacgccatcc gaagcaaagc agacgaggtc atgcagcagc tctttgccct acgagacgac 300
acgatcgact ag 312

<210> 4269
<211> 375
<212> DNA
<213> A.fumigatus

<400> 4269
tccttcgacc cccggctggt gaagacggtt tatcaacatc ggtcgggtct ttgtcgattg 60
ctgcgatcta ttcctatgtc aggacaacgg aatgttccaa tgtttgatac accatcggat 120
ttaccttgtt ggagattgcc acatttaccc tcgtcccttc gtcataaagg tctgcctgct 180
gctgtctgcc tccgagaaat ttatcaaccg gcactatatt acgcacctgc gttagcttgc 240
tcgggatctc ttgtggtcac gaattatcat actccttttg acattgtcaa tgtatacacc 300
gtactgtgtg aaatcctcca aaaagttcca gctctggcga agtgcgtcaa attccataat 360
gctgcgcatt actaa 375

<210> 4270
<211> 309
<212> DNA
<213> A.fumigatus

<400> 4270
gttaccagtc tatcaccatg tcttattctg caatctaagt ctatatttag cgccaaagtt 60
gctttcacga tgtatggggt tactggtgaa gtgaccgagg aagtcaaaca tgctgtctcg 120
tcaatccaga agaactcccg aatcacaatc tggatccaca tctctggggg gggaaccaaa 180
ctaggtgaaa ccaagcggat cgactcggga cctgacgatg aagattcacc gctctttaaa 240
attaagaagg aagctgataa tttctatcaa gagttgaaag atgggaagct taaatacaga 300
cgtttgtaa 309

<210> 4271
<211> 1020
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (997),(1009),(1014)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4271
agacatgcca agtcattgat tgagtccttc tctcgcgagt tgacgtcgaa tttgttcggg 60
aatccccatt ccttgtccac ctcctcacag ctgtccacgc agcgtgtgga tgatgttcgt 120
cttcgagccc ttcgcttctt caaagcagac ccggaagaat ttgatcttgt atttgtggcg 180
aatgccacag cggcgatcaa gctggttgcg gatggaatga gggattcaac acggcaggga 240
ttctggtatg ggtaccacgt ggacgctcat acgagtcttg ttggtgtacg agagctcgcg 300
gagaaggggg gtcggtgctt cacctctgat gacgaggtcg aagattggat ctcaaggttg 360
tgtgatgtcc gatctgagtc gctcaaattg tttgcgtatc ccgcgcagtc gaatatgaac 420
ggtcgccgtc tgccattttc atggtgcaag aagatcagag atcagggcga gactactggc 480
gggaacgttt atacgctcct cgacgcggcg tctttggttt cgacctcgcc tcttgatttg 540

agcgatgcat ccgctgcacc ggactttacg gtcctaagtt tctataagat cttcggtttt 600
ccagaccttg gcgcgttgat tgtccgcaag agtgctggac agatctttga gcaccgcagg 660
tatttcggcg gaggcactgt ggatatggtt ctgacacgcg ggctgcaatg gcatgcaaaa 720
aagcaatctt cgatacatga ccggcttgag gacggcactc tcccgttcca caatatcatt 780
gcccttgact cggcgtttgc aactcatgag cgtctgttcg gctcgatgca aaatatctcg 840
tctcataccc gctttctggc aaagcgcctg tatgaccgac taaacgcctt gagacatttc 900
aacgggcaga gagtctgcga gctttataag tctccacggt cagactacgt cttcaccacg 960
gggctggaag gtccgaaggt gactctattt caaaaanggt tttcaaccng aaancctccc 1020

<210> 4272
<211> 741
<212> DNA
<213> A.fumigatus

<400> 4272
aagctcaagc tcatgctggg ccagctcctc ctaaacatct cccgtttggg gccccatggg 60
gaccagatcc gggaccagga ggtttatttg attggcatct acggctccag gctgcatatc 120
cttcgtgctt tcttcctcgg ccagaaaacg tcccatctgt ggagcggaag acacaaccgt 180
tcgtcctcag acgccgatgt gatagacccc aatccgagca ctgtctacga tcgattctac 240
actggaaaga acctggaacg acttcgccaa caggtggagt ggctgagcgc gaagaatctg 300
gacaataacc caaatccacg tcattttcga gtcttaggca gccgcgaatt tgacctctgg 360
tgcaagcaag attttcgagc tgccgtcaag atgatcgtgg ctctgttcat ctacatgatg 420
agcgggcagg ctcgttgcgg tgttctgcag aaggtgttcc aaaattaccc tattgatgaa 480
gaatctgacg atgagttgga ggaggtacat gacacccgca aacgggtggc gattgaggaa 540
gagaagctag caaagaagga gaaggagttg gaagagaccg aaaggaagaa gcgtgaggag 600
gaacagaaaa tgtccaaatc aaagggaaag aggcgaagtt acatccatgg tcgctttcaa 660
ggattcaaag gttggcgtaa gccgtgcgaa gactttgcgt ggcagaagga gacagatagt 720
tcactggacg acgacttgta g 741

<210> 4273
<211> 597
<212> DNA
<213> A.fumigatus

<400> 4273
gagcctctgg ggccggtaaa tcaacttgtg agataccacg aacctgcttt cccactcatg 60
tttagcgagt tgctgacact actggaagta ttgactgttc tcacgcaaag acaagcatca 120
gggacactgt ctggaacaat aagcgtggat ggacgtcccg ttgacgaatc tttcaaacgc 180
aatatcggat attgcccgca gatggatgtt catgacgaga ctagcactat tcgagaagct 240
cttgagtttt cggccctgct tcgtcagcct gtaagcgtcc ggaaagaaga taagctctca 300
tatgtggaca ccgtcttgca taccccttgaa ctagttgatt tccagaacgc catcatcgga 360
tctttggata tcgagaagaa aaggcgggtt actatcggag tggagctctg tgcgaaacct 420
gagctcctgc tcttcttaga tgaacccacc agtggcctag gaagtcaagg cgcatcgagc 480
attgtgtctc ttctgcggcg cctggccgac caaggattag ctatcctttg cactatccat 540
caagcaaacc aagagcaatt cgaacaagta agcctcaacg agccatggcg cttgtga 597

<210> 4274
<211> 645
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (588)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4274
tttgacaaag tcctggccct cagcccgggc ggacgaactt actatttcgg cgaaatcgga 60
agatctggat gttgcatttt tgattatttc aagaagtacg gcgaccagcc caagaaaatc 120
accaacgcag cagactactt gattgaagtc gttgtcgggg gcatgaggga taccgaccac 180
gaggtggact gggcagacat atggaataga tccgctgaag ctgacgctct ccaaaaggag 240
atctccaaca tccacagggc gaggtcgcaa aatactgaat catgtgacag cacgaagcag 300
actcattcta tgccgccccc gtattgccag atcggccttt tgacgcagcg cacgcttcgg 360
cagtactggc gaagccctga ataccccctat tcgcggcttt acgcatcgtt cttccatgca 420
ttgattaacg gattgacata tttgcaaacc ggaaacagtt ctacagacct gcaatcgaaa 480
gcattctcat gttttctagt tctgatgctg gtgccggagt tcatcaacgc aatttcgatg 540
cgattcattt tgaaacgtga tatcttggaa tactcgggaa aggaccantg gtgtgtattc 600
ctgggttgcg ttttgcacgg cgcacataat ctccaaaata acgta 645

<210> 4275
<211> 606
<212> DNA
<213> A.fumigatus

<400> 4275
gcacaatctc atcgcgaatt ggaggaactt gtcaaaatgc tttctgcaga caatcaacat 60
actaaagcag cggcgttggc cgtcttccag gacgaggcta aactggcata tcaggcgttg 120
cgcagtcaca cacccaccca ggcgcataag ctgcttgcca tggctatcgc aggtgcggcc 180
aaaggcgata ccgactcaga ttgggaagag acatgcgcgg agatcgccaa ggaactcact 240
gacccctacg cacgagccat attggcgctc gtgagtaaag gagattggaa gtctgttatc 300
cacgagtcta cccttccctt gagataccgg atcgaggtag ctctacgttg gcttcctgac 360
gccgaactgt caggctactt gaaggaaaca attgctgaag tcatccggca aggcgacatt 420
gaaggtatag ttctcacggg gcttggccac tctgccttgg acctttttcca atcttacatc 480
aataaattca atgatgttca gacgccggtt ctagccatga gccacacagt cccacgcttc 540
atcaggactg gttggggcca gggctcgatt atgaagaatg gcgtgagacc tatcgctggc 600
agatga 606

<210> 4276
<211> 618
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (195),(234)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4276
tgttcagacg ccggttctag ccatgagcca cacagtccca cgcttcatca ggactggttg 60
gggccagggc tcgattatga agaatggcgt gagacctatc gctggcagat gaactcatgg 120
aaactccaat tagagagagc gcgattcgat gtcggctcgc gcaagttcgc cgtcacctgg 180
gatggcgcaa aattngtcga gccgccccgg caacaagtca gcttgacttg taantactgc 240
actcgacatc tcacccaaca tgatgcatcc tcccaatttt ctccatcggc ttcaggggaa 300
ggcgtgcatc aaaccgctgg caatcccttg ggtacagctg ttatgtcagg aatggtttgc 360
gccaggtgtg gacggccgat gccccgctgt ggagtttgca cgctctggat gggctcccca 420
gatccaatgt ccagggcgtg tatcgccgcc gatgctggtc aggagcagcg caagcccaca 480
gaggccgaca tcatgcgccg attcatcgtc ttctgtatta attgcaatca tggtttccat 540
gcacatcacg ccagagaatg gtttgcaaag cataaagttt gccccgtcgc agaatgcagc 600
tgcatttgtg atcgatga 618

<210> 4277
<211> 321

<212> DNA
<213> A.fumigatus

<400> 4277
ttggcggcgg gtaggttctc cgtcgtccag ccctacactt ataggataca caagtgtcta 60
accactagta gtccaaccgg cgacgcaacc cttaccgaac cgaaaaacgg cttcaacagc 120
acacagctcg ctagcctatt cacaaagcgc agtgtacggg ccacttctac tgcggtctcc 180
cccagcactt tagcaacttc catgttaatg gcaatgtcaa cgcgaccccg cgcagcagca 240
ccctcattat caggcagcac catagctaga gtaatcatta gctctattac tagtgcagcc 300
actattagta cactagcctt t 321

<210> 4278
<211> 282
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (14)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4278
actttgaacc ctgntggaaa cccggtcttg tatggcaccc ccggggctga tacgtacatg 60
actccgggac tgatcaccct agatatgaac acccttgagt ggaccaacgc atccactacc 120
gatatggaca cttttggtac cattggcgat ggctacatga gtcttatcga atccgtgggt 180
gaccagggcc ttatcgtggc attcggagga tatacgtatc cagtcgggga gaagatttcc 240
tttttggctg cgagacagaa tgaaactact catcgggtat ag 282

<210> 4279
<211> 390
<212> DNA
<213> A.fumigatus

<400> 4279
gttgtccgga tcctattatc aattacatgc tcaagaacta gctatgtttt cggaggtatg 60
ggacaaacga ccgcggaatc cgacggggac gtatacgtcc tctccctacc ctctttccaa 120
tggatccgag tctaccgaga caacactatc cggtacaagc acaaatgcca gctggtgcaa 180
aagcatacca tgctggttat tggcggaatt attcccatcg acgggatgga gtactatccc 240
cagtcacgaa actgcgacac tgcgaccttc gccaacggca taggcatatt cgacctgcaa 300
actctgtcct ggagaacaaa ctataatgca actgacgttg ttggatatgc ggttccatcc 360
cagatttcag acgtgattgg cggcgggtag 390

<210> 4280
<211> 225
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (38),(64)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4280
gcctttgata agatcccatc tttcgacctt tgtgcctnca ctgccactct ccgtaacgat 60
gtangtgcgg ccgggtttct ggcaccctct ctgccgtgct tctgcggtct cgatgacaac 120
tcctgcgata aaatcaccat ttctagactg tttctgactg agaaaggcat tgaacgagaa 180

gaaatctttg cgccgaggaa gaaccaaggg attcgacgcg tgaag 225

<210> 4281
<211> 297
<212> DNA
<213> A.fumigatus

<400> 4281
cgaaaatgcc accttagtaa ggaccgtgtc tacggactgc cggccgagct tcgattccgg 60
gtcgtcatta ccggacttgg tgccaaggat aatggtgtct cctttaatgc tgctattctc 120
ccgttggggg tcctcaatgt attccaaatc ctcggtctcc agattatcta tgtgggcgcc 180
ttccgccgcc gggagaaggg ttctagttgc cagaaaagat gtaaagccct cgggcaaaga 240
ccatgccacc acagtgccgg aagggaaaac gaatacatcg ccaacttcat cggatga 297

<210> 4282
<211> 456
<212> DNA
<213> A.fumigatus

<400> 4282
gactctgttg gccaattatt tcgagtcaac cagaacaata cccacacttc tatcacaagg 60
ctctcgctta ccctcacaaa agattcatcc tttcgcaaga ccggccaact gctgagtgtg 120
cgagcccaat tgaatctcta ttcggaactg acagactcat tgccagattt attctgggat 180
agccggcatg agctaggtct agagggctac tacgaacagg taggaagggc actggacgtg 240
ggtattcgca tcaaactctt aaacgagaaa atggactacg cacaggaaat agcaagcgtg 300
cttcgagaga gactgagcga gacacacggc ctccggctcg aatggattat catcctcctc 360
attgccgttg aggtaggatt tgaggtttta aggctttgga aagaacgcgc tcatgagctt 420
gaagccaaag ctgaattaag ctctgaacct tcgtga 456

<210> 4283
<211> 360
<212> DNA
<213> A.fumigatus

<400> 4283
aacaattctc ggctctgcag tgagagtgga ggcaaccgtc acgtcgtctt cactcctagt 60
agttgtaccg ccctccagag cttcgatgtc aacatgttgc agagtatacc tggaccgcag 120
catattctga aagctctgac tggctctttg ggactctcga ctatatatga gccggatcat 180
gaagcttcgc aaaactcatt ccaatgctct aaaccggagt tgagctgtca cgcccagtac 240
catggccagg acacttgctg cttcaactat cccggagggc agatgctcca gacgcaattt 300
tgggatgcgg atcctgcggt cgggccagtc gactcctgga ctattcatgg actctggtga 360

<210> 4284
<211> 630
<212> DNA
<213> A.fumigatus

<400> 4284
aaggcagtaa cagcctatgc tgtagcagaa caattcgata tccgcaaagt cagagatatc 60
ctccaagaga aaggtttcga gccggatccg tttcaaacag gcctgtttcc tcaagtcgtt 120
catatccaag ttcccataga ttcaattcga cgcgtcagta atctcaccac gaccgatctg 180
tcatccgatg aagttggcga tgtattcgtt ttcccttccg gcactgtggt ggcatggtct 240
ttgcccgagg gctttacatc ttttctggca actagaaccc ttctcccggc ggcggaaggc 300
gcccacatag ataatctgga gaccgaggat ttggaataca ttgaggaccc ccaacgggag 360
aatagcagca ttaaaggaga caccattatc cttggcacca agtccggtaa tgacgacccg 420
gaatcgaagc tcggccggca gtccgtagac acggtcctta ctaaggtggc attttcgtca 480

gggttggctc gaagtacgaa actggcagtg cttgagactc tgttggccaa ttatttcgag 540
tcaaccagaa caatacccac acttctatca caaggctctc gcttaccctc acaaaagatt 600
catcctttcg caagaccggc caactgctga 630

<210> 4285
<211> 501
<212> DNA
<213> A.fumigatus

<400> 4285
gctgtcacgc ccagtaccat ggccaggaca cttgctgctt caactatccc ggagggcaga 60
tgctccagac gcaattttgg gatgcggatc ctgcggtcgg gccagtcgac tcctggacta 120
ttcatggact ctggtgagct ctacgtggtg ctaccaaagc tcctattgtc gcagacatgc 180
atcgtactga ataagacact gatcaccggg caccccccta ggccggactt ctgtgatggt 240
ggctttgatc aatactgtga ttcaaagagg agatacagca acatctccct gatcttggtt 300
gactcaggcc gagctgacct actagagtat atgagtgatt tttggaaaga tttccgaggg 360
gacgatgaag atctctggga gcacgaatgg aacaaaacatg gcacatgtat tagcactctg 420
gagaccacct gctatgcgga ttattatcca cagcaagaag tcgtagacta cttcaacaaa 480
acggtcgaga tcttccagaa a 501

<210> 4286
<211> 279
<212> DNA
<213> A.fumigatus

<400> 4286
actgaccatt gcacaggcat catgcagatc gcagctctcg ccgccacttt cgccctggcc 60
ctcgtcccca gcgtgtctgc ctggcgtgtg ttcttttacc agctgaagga gggcgagggt 120
ccctctatca ccaatgctgg gcctggaaat cccgggttca ggtgccatcc caacgtcgac 180
cctctcaacc agaatatttc ctcgatgagg tactactcgg acaatccgga gggtactatc 240
cgctgctgtc ttacagtatt ccacagtccc ggctgctaa 279

<210> 4287
<211> 222
<212> DNA
<213> A.fumigatus

<400> 4287
ttagcatctg gattctgcta tcgactagtt ggcatcacat tcgatatgga cacaacattg 60
aaatggcact gggacacagt gcagttcgtg ctgaattgcg gcgaaagaac ctgcagacga 120
attctatata aggcctctcc tatcccgctc aaagttgaca tccacaagcc agctcaaccc 180
cgtcaagaat actccgacag aaacaagcta atcactcgat aa 222

<210> 4288
<211> 429
<212> DNA
<213> A.fumigatus

<400> 4288
ggtactactc ggacaatccg gagggtacta tccgctgctg tcttacagta ttccacagtc 60
ccggctgcta aggctacttt ggatattcgt cctgtcggaa ctagttcccc ctactttgcc 120
gaaattggcc atgaactcta tgttatttct ttcttaactg agttgttcct tactcttcac 180
tccgcgtccg ttctgctgat catctgtcct ctttacgatt atgggtctac cattccctct 240
caatatatct tccctttcct ttcctctttt tcttctcccc ctatgttctt tcctcctctt 300
ctctctcttc ccctctctcc cttctccatt ttctttcttc tctcctcccc taatcatagt 360
tctttttctc tcatccctat aattcttctt tcattcctta tccttcattt ttttttcctc 420

cttccccta 429

<210> 4289
<211> 255
<212> DNA
<213> A.fumigatus

<400> 4289
accgctttgt cgaactttga gctaactcat gcctcagcca catttaatga gaagttgctg 60
ctgggacaag gcttatccat tacgccttta gatgagggcg caggcaatgg ctctattgga 120
ccaaagagtc tgtatgaggt ggtacggcag attgataacc agaaggactt ccaggattat 180
attctcagct acgaatataa tcctggtgct gtgacttcgg aggaggttca gtaccagcgt 240
catccggtac gttaa 255

<210> 4290
<211> 600
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (42),(149)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4290
ggaagttgtc tcgctctttt taaagacggt gccagcggcc cngacaatcg ccaaggcacc 60
tacggttcta gctacaatga tctcaatgga ttccacggac gcatggcgga tcatggactt 120
caattggcag tatctctaca gcagatggnt gatgacctcc acgagcttgc cacgaatatc 180
gagaagggac gcaaacagtg gaaacaaacc ggcctgagcg cggagaaaag agttactgag 240
gccgaggcgg cagcggagaa agcaaaggcg aagtacgaat ctcttgcgga gcagtatgac 300
cgcgtgaaaa ccggggacaa acagggcggg aagtttggct tgaagggaca taaatctgct 360
gcccaacatg aagaagagct gttgcgcaaa gtgcaaaatg cggacggaga ttatgctgcc 420
aaggtcacgg ccgcacaagc ggctcgacga gaactgattt ccacccatcg tccgcaggct 480
gtgcagaaca tccagaaatt gattgcagag tgcgactctg gtcttacgtt gcagctacaa 540
aagttcggta tgatgtcact acgtcccgac attgaaccgc tttgtcgaac tttgagctaa 600

<210> 4291
<211> 675
<212> DNA
<213> A.fumigatus

<400> 4291
cttcggagga ggttcagtac cagcgtcatc cggtacgtta atttgtatcg atcattatta 60
tccgcatgct catttcgtgt tagacactgg gaggtacgcc ccacaccggt tgctccggcc 120
tcgcagcctt ccacacagaa caagcgccag tcaatcatgt ttccttcatc attttcccaa 180
caacatcttc ctgtcagtca gccctccact cagccatctg gaccggctgc gactccgtct 240
ccgccaccag cgcccgctca aagcacccag ccatcgtctt tccagccaca tccagactcg 300
ttctcttcgc caccccccatt ccaaccacct tatccaactt cttctgggtt gccagctcct 360
gatcagcaca atgtgaacac gctgcccatg gcggcaccgg ctaatccccct gcctccacct 420
ggaaacaact tccaacagaa tctccctcct ctgaggccgg tcttcggggt gtcattagaa 480
gatctatacg ccagagatgg gactgccgta cccatgattg tttaccaatg tctccaggca 540
atagaattgt tcggattaga tgtggaaggc atttaccgtc tctctgggag cgcaaatcac 600
atcaaccata tgaagtcgct tttcgacaac ggtatgtgta accacagttt aacccgtttc 660
tctagcaatc gctga 675

<210> 4292

<211> 210
<212> DNA
<213> A.fumigatus

<400> 4292
cctctatgga tggcagactc ttcacaagtg gactttacga atcccgagaa cttctatcac 60
gatgttaata gtgtcgccgg gctgctgaaa cagttcttta gagaactgcc tgatcccttg 120
tttacttccc gatactattc tgatttcatt aatgcagctc gtaagtacat tgattcgaac 180
ccggggtgcc atatgacaag agctgagtag 210

<210> 4293
<211> 207
<212> DNA
<213> A.fumigatus

<400> 4293
ctgacacgta tttccgtagg gatcgatgat gacatccagc ggagggattc actgcatgca 60
cttgtcaaca accttccaga tgcgcactac gccacgctga gggctctgat acttgtaagt 120
aactcgggta tcgccccatc tttctatctg ccaaggtcta atttgctcga ttctagcacc 180
tcaacaaagt ccaagaacat tacatga 207

<210> 4294
<211> 459
<212> DNA
<213> A.fumigatus

<400> 4294
ccccctcgct cgctgcgtct cagcccactt ccggtcgaaa tccaccagcc cctccttatc 60
cttccggcgg agtcgtgcca ggtaatcatc ccgggagctg atctcgtcgt cgtcatcgct 120
gtcgcccgca aggtaaagcc cgctcttgag atcctcgtac atgcgcgcct tttcctcgag 180
ccgccgcttg gagcggtgga gggtggcgga gtcgacggcg ccgatgtctg cggtgcgctt 240
gtggatctgg cggacggagg tttcggcatc gtcgtcgtca gcatcgcgaa ggtccgcggc 300
cgcgcgtttc tgggcgcctt tgttgtggac agcgaagatg tcggatttag aggatttgga 360
gggtcgaggg cggccgcgag tggaggactc ggtgcctttg gtgatgaggg aggagagctg 420
ggtggtgaag gcgagggtag aggcagaggg ggcggttga 459

<210> 4295
<211> 288
<212> DNA
<213> A.fumigatus

<400> 4295
ccatgtcgaa catctatctc ggtgtcatcg gtgagtatcc atcccacctt tgctgcaccg 60
tgctgcattg gagttctgac tcatgcttac aatccatgca ttgcaagcgt cagtggtgtt 120
ggaaccgcat tcctgaacca acttgcccgt cttccaaatg cccccaagct gatcctcctc 180
gcccgctcaa cacaaaccct cctggccccg acaccggcct actcgcctgc catccccgcc 240
ggtgactgga acgcggccgc cgagaccccc tcgctcacca agtctggt 288

<210> 4296
<211> 663
<212> DNA
<213> A.fumigatus

<400> 4296
aacatccatc atctcacagt caccattcga gcacacaaaa tgtcaaatac aaatccatcc 60
ctttacggcc tcccccgaca tagccaaaaa gcctccgctc aatcaaccgc cccctctgcc 120

tctaccctcg ccttcaccac ccagctctcc tccctcatca ccaaaggcac cgagtcctcc 180
actcgcggcc gccctcgacc ctccaaatcc tctaaatccg acatcttcgc tgtccacaac 240
aaaggcgccc agaaacgcgc ggccgcggac cttcgcgatg ctgacgacga cgatgccgaa 300
acctccgtcc gccagatcca caagcgcacc gcagacatcg gcgccgtcga ctccgccacc 360
ctccaccgct ccaagcggcg gctcgaggaa aaggcgcgca tgtacgagga tctcaagagc 420
gggctttacc ttgcgggcga cagcgatgac gacgacgaga tcagctcccg ggatgattac 480
ctggcacgac tccgccggaa ggataaggag gggctggtgg atttcgaccg gaagtgggct 540
gagacgcagc gagcgagggg gtcagatgat tcggcttctg attctgacgg gggagatgtc 600
gaggccgacg ataatgcgtc gatcgtctcg tatgaagacg agctggggcg gacccggcgc 660
ggg 663

<210> 4297
<211> 816
<212> DNA
<213> A.fumigatus

<400> 4297
cagaagcagc tctttaatcg tggggtcgcg gggcagcgat tatcggagtg gtgcctgagg 60
catacacggt tatctaatca gcatcggcag agttgccttc tccgtagagt ccaaacattt 120
actgctctgc catctcagaa gatacggagt gaaacatcca tcatctcaca gtcaccattc 180
gagcacacaa aatgtcaaat acaaatccat ccctttacgg cctcccccga catagccaaa 240
aagcctccgc tcaatcaacc gccccctctg cctctaccct cgccttcacc acccagctct 300
cctccctcat caccaaaggc accgagtcct ccactcgcgg ccgccctcga ccctccaaat 360
cctctaaatc cgacatcttc gctgtccaca acaaaggcgc ccagaaacgc gcggccgcgg 420
accttcgcga tgctgacgac gacgatgccg aaacctccgt ccgccagatc cacaagcgca 480
ccgcagacat cggcgccgtc gactccgcca ccctccaccg ctccaagcgg cggctcgagg 540
aaaaggcgcg catgtacgag gatctcaaga gcgggcttta ccttgcgggc gacagcgatg 600
acgacgacga gatcagctcc cgggatgatt acctggcacg actccgccgg aaggataagg 660
aggggctggt ggatttcgac cggaagtggg ctgagacgca gcgagcgagg gggtcagatg 720
attcggcttc tgattctgac gggggagatg tcgaggccga cgataatgcg tcgatcgtct 780
cgtatgaaga cgagctgggg cggacccggc gcggga 816

<210> 4298
<211> 300
<212> DNA
<213> A.fumigatus

<400> 4298
ctggcttctt ttgggaagct gcaactaata tgtctcctgg ttacagccgg agtgcgcgag 60
aatgtcgagc agctgctcaa ctactctcag aatgagaaga agagaaactt cctcgagacc 120
gtcgagcttc agatcggtct gaagaactac gacccccagc gtgacaagcg tttctctggc 180
accatcaagc ttcccaccgt tccccgcccc aacatgacca tctggtacgt caactttgcc 240
gaccgaccga tccttcggtg gaatgtcttg atgcgcatca tcgggagaag gatgaggtaa 300

<210> 4299
<211> 246
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (4)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4299
acancacgat ctcgaccgtg ccaaacaaca acgcatcaat gcatgttcgc tgatgaactg 60

aaaaaactca cacagaacca aaagctcctc cagaagcttc tccgcaattt caatgctttc 120
cttggttccg acaccctcct tcaacagtat cccccgtctc ctgggttcgg gtcttgtcca 180
agggtactta tcttccgtcc ccgacaaaac cccaacgccc gggattatcc tctaaccaaa 240
aactaa 246

<210> 4300
<211> 285
<212> DNA
<213> A.fumigatus

<400> 4300
aagcgctgtt ccttccagcc ccggtggttg aagaccagac actatggtct gtcgccgcaa 60
tccgaggttt ccaatctcgc ctaccgcatc tcgcaggatc tctatcgaac atttgccccc 120
attaagcaga ccacctctac catggccttt tgctctctcg aactcgctgg ccgcctgctg 180
gatcagcgtc tggagcccgt tgagcagggg tcagattacg agcaatggag gacgagccgc 240
gaagaagtaa tgggtgggtc tcctgccgtt ttctcaagtc tatag 285

<210> 4301
<211> 597
<212> DNA
<213> A.fumigatus

<400> 4301
gtagtcaact ccagcggagc taccgacgga tccctccatt ccccgcagag aggcgacctt 60
ccaacttatt ttctccaaac catccccaaa aaatacctttt cattctttag aatggctcag 120
ccaaagaacc acattattta tgcaccttca gaggagactc cccgcggcgt aaagtctgtc 180
ttcctcgccg gcaccaccag caaagtggac cccggtgact ggcgcgagac tctatccacc 240
tccctctccg acctgccagt cacgatctac agtccttacc ggcctgattg ggacagctcg 300
tggcgggagg acattgattt cgctccttac cgagagcagg tggagtggga gctcgacaag 360
ctggacaaat ccgacaccgt cgttatatat ttccatccgg ccacccaggc accgatcagt 420
ttactggagc ttggactctg tgcgcgagtc cccgggaagg ctcttgttgt ctgtcctgag 480
ggatactgga agaggggggaa tgtgcagatt gtgtgcgaaa aatacggagt tgaaatggtg 540
gacaatgttg atgcgttgag ggacgccatt gtcgagagat tgtctgttcg ttcgtaa 597

<210> 4302
<211> 1623
<212> DNA
<213> A.fumigatus

<400> 4302
cctatcgttg ccattctcca taccctctat ggaatctacc acctatgtcg ctcgccagtc 60
accagacccg ctggatcaca ggccagttac atggtttttg cggcaacgct tgaccttggc 120
ttggttccat actatgtctt ctccgcatac atcgcgtaca agcagatcac caacaatgcc 180
taccactgga gcactctgct gagcgcggaa actggtatca cggacaagat cgctcattcc 240
accttcatcc ttagtattgt caacggaagc tttcatttaa cctctctctg catttccgtc 300
tggctggctt taatattccg gcagatctcc caactgcctc cggatctgaa tcctctcgaa 360
gacaatctga ccgctcgtcc tcataaacga aacaagtcgg aaatcagcga aaagcatcgc 420
agcctgtcta ctgttgcatc ggccacgtct gcggaagaac cccttattgg ccctgctcgg 480
caagtgccat tcatgcacac tcgcaaccag tcctcagaag atggctcgag tcggttttcc 540
gttattaacg agaagaggcg atcacaacaa tctacatacc gtgacacggt tgtcccaccc 600
gtaccacctg tccctcaaca ctccttcctg gcacagcatg accagcaagc gtcggtgcaa 660
tcgctcttgg cagattctca tagcgaccac gctcagcaag tctctcgtga cgttcctgac 720
agagctcaat gcgtaagtcc agactcgggc aactggattg cctacccttc tcggtcaccc 780
tcaccggcag aggctggttt gaatgagaac ctagcccgtc gagaaccctc gtctgcctac 840
agtcaaacgg agagccttat ctctgcaggt agcagtttca aggactggct tacttccgcc 900
cagcgctacg aactgcacct taacgaggca atctcggagg acgttcgcgg cgagtacgaa 960

tcactagctt tccacgaaca ctatgcgaat gacgaggaca ttcatgataa tcctcaggca 1020
acacgattct atgacaacgc cgagcaagac attggcgacc acaacattaa tatattcctg 1080
gaccacaacg accgcgagcg acaattctcc gcctccctcc aggtcaaccc tttagccctc 1140
aaccctccca ccccacagcc ggtccaggac gagaccgaca atgcacctca ccccccggcc 1200
cgtgcccctc tcactgatat cccgaacctc gctcctaacc ctcccgcttc ccctacctcc 1260
ccagacagcc ccgagaagaa aggccgcttc tacggagagc tcaacaataa gccttggctc 1320
agcgttgcgc gcagcgtaag cggtcagaac gatcccgact cgcgcgatct ggaccggaag 1380
cggagcaggc tcgtcaaacg caacagccag aaactgaaca catacagttc gcttaagcag 1440
cacgacgctg atgattcaga cgtcgaaaac gagatccctc ctgtacctac ggatcctgct 1500
gttgcagacg gtgatcgcaa gggtcgtgtt gtcagtaact ccggggctga catcggtcgg 1560
catgattttg gatcaggctc ctcctgtctt caccacgggg ctggaaggat ccgcggtggc 1620
gca 1623

<210> 4303
<211> 936
<212> DNA
<213> A.fumigatus

<400> 4303
ctgatgacct tccaggccgg cggtgaagac atccgtaccg ggaggagacc cgatgcctat 60
gacaatcggc agcatgcgcg gccccgttcc ggctatggca atggaccggc gccggattac 120
cgcagtatgc caccgagcag accagagtac caatccccac cagtgccaga catgcaccca 180
agacatgcat acgaatcaac gtctcgcccc accagccatc acagcaaccg tcaatttcca 240
gcaccggagc agtacggata tgagggagat gtgctgcgtc acagtcatgg acacgaagct 300
gctcaatact cccctcattc gtcgacgagg tcgtacaatc cccctcccgt agattacacg 360
catggcgctc ctccgggccc ggaaccggaa catcactacc ggctgcatag caactcggga 420
gcgagcatca acagccggca tcgcaattcc cttgcgcacg aaaccttcca cccggaatat 480
gcagcaatgc agccccgtgt ggacgacgac gaagaagagg agggacctcc acctccacca 540
ccggcccatc ggtcaggcct ggtccagccg agtcaacagt tagtaccgtc accaacttcc 600
tcgtacaagg cttactctcc agagtttgca ccgtcccccc gcaataccac cgatatgacc 660
gcgctccagc cgctgcgccc ctcgcacggg aaccgcctac aggaccaccc tcatatgaag 720
aatccatcgg tgccgcgcag cctggtcgcc ggctttgacc cggccattgc cgagggggag 780
gccgcccgga ccgcgcggga acgcccagcg aaccgccggc gtagcttctt cgaggaggac 840
gccatgattc gcgcggccga gtcgaatcct gcctcccccа ccctaaccct gccgacaccg 900
atccgtcttc caccacgggg gctagaagat ccagcg 936

<210> 4304
<211> 900
<212> DNA
<213> A.fumigatus

<400> 4304
tcttccgcgc ccgcgtatgc ctccctcccc gccccgggac gaaagtacct cgtccacggt 60
gagaagtacc aagtccacct cgcctgtgtc ggtcccctga acggcaccgc cgacggcaac 120
ggaaagaaac cgcccactgt gctcctcgaa ggcggcgaag gcccagtcga gcactccctg 180
caacccttca tcgatgacgt ctacaaacaa ggcctgatcg accgctactg ctactgggac 240
cgaccaggat acgcttggtc cgacaatgcc ccctccccac actccgccgg catggcagct 300
gatgctctct ccgaagccct cgcgctcgcc ggcgaggaag gaccctggat cctggtttcc 360
tccggcatcg gctccatcta cagccgcatc ttctccagcc gccacctcct cgaaacacag 420
ggcatcatgc tcatcgatgc catgcacgag gactacctcg gccaagtggg caacgccggc 480
cgcggcttcc tgctctggct ccgcggggtc ctctccccgc taggcctgga ccgactcttc 540
ggcgccttgt tcaagggccg cacacgcgag gaccgcgtct acggccgcag cgcgtaccag 600
acggacaaat tcctcaaggc caagttgcag gaaaaccttg tcgccgagtc catgactgcc 660
tccgagatcc agacggcgcg ccatgtccag atgcccgata cgccacttgt cgtcgtaagt 720
tccgggattg aggtccgcag gagcgacaaa tgggccaaga cacaggagga tctgacgaag 780
atcacgaaga atttgaagga gtgggatatc gtcaagggtg cgccccacga ggtgtggaag 840

accactgaag gtcgacaggt gctgggaaag agactcaagg aaatggtaaa aggcgagtga 900

<210> 4305
<211> 711
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (22),(33)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4305
gggggtctat atactgcggg tncagctgat aanacacgaa ccgcccggtt ccgtgtttct 60
atatcatgct tttactatca ggtatcccct tacaatctgt ggagtgtcag ggctctcaga 120
gccttttcct cgttctgtct cgcggtcagt ttcgtctggt ggaccttcct gctcgtctcc 180
atcttcgtca gccctccgat gatgcacagc cgtggctctg gctttttcag cttcgcatat 240
accacactca ccgtcggcta cctcgttatc gcgctgctat tctttactat cccatctttg 300
gccatgacca tatccggcat agtgttggcc gtcttcctct tcgtggatat gtgcattatc 360
ctctgtgtac ctcagctgcg cgtcgaatat ggctgggttg gtatcgcctc ggtcgtctgg 420
gccaccctga tttccatttt caacgtcctt catttccgga ccgttgcttg gggcaagagg 480
gagggaagag gaacgcctta ccggacgaga ggaaacccgg cggtccctcc gggaatggat 540
cgctgtgctt atcgacccga tcttcatggt tgtgtttgcg atagtttcca tcctcttcac 600
tgctactctg atcttccgcg cccgcgtatg cctccctccc cgccccggga cgaaagtacc 660
tcgtccacgg tgagaagtac caagtccacc tcgcctgtgt cggtcccctg a 711

<210> 4306
<211> 297
<212> DNA
<213> A.fumigatus

<400> 4306
tcagaatacc acactatgac agggcgatcg agtatctctc aaccaccagc cacggactca 60
acacctctgc tctcttctca tgcagcatca cagcggtttt cagtcttcac aaatggacag 120
aaacgcctca tcattcttgc agctgctcta gcctcgagct tctcaccttt ctcggccaac 180
atctactacc cctctctcaa ttccatcgcg gcagatctac atgtcacgag ttctcagatc 240
aacctgacaa ttactaccta catggtatct ctccttgttg atctggttcc gttctga 297

<210> 4307
<211> 1179
<212> DNA
<213> A.fumigatus

<400> 4307
gtgaagactg gtcaagtgat gcatcaactt cccgtcggtc attatgccat ggtggcggtc 60
atgagttatt ccggttacga tattgaagat gccctagttt tgaacaaggg ttccgtcgat 120
cgtggcttcg gtcgttgcca agtgttccgg aagtacgtga ccaatctgaa gagttattcg 180
aacggtacaa aggacagact caatccccca acgtacgaga atggtgcacc catcagaaag 240
catgcattac ttgaagcgga tggtctggct gctgtcggtg agcaggtgaa tgctggcgag 300
gtctatatca acaaaagcac acccgagcaa tccaacctgt cgggaatcgg ctccgatgct 360
ggccgaccag ttcagtatac accgacgccc atgacttaca agcttcatga ccccgcatac 420
attgacaagg tcatgtattc cgtacaggag aacgagaacc aactggtcaa ggttcttgtt 480
cgccagaccc gtcgaccgga agtaggtgat aaattctcct ctcgtcacgg tcagaagggt 540
gtcgttggta tcatcgccga ccaggtagat atgccgttta cagattccgg tatcaatccc 600
gacattatca tgaacccgca cggtttcccc tcccgtatga cagtcggaaa aatgctggaa 660
ctcgttgctg gaaaagccgg tgtgcttgcc ggtcaccacg gttacggaac ctgcttcggc 720

ggcacccccg tggaggaggc ctcgcgggtt ctgatcgacc acggcttcag ttatggagga 780
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cccatctact accagaagct caagcacatg gtgcaagaca agatgcactc gcgtgcgcga 900
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gagcgtctca tgatctcctc cgatcgccat gagattgacg tctgcgagca atggcggctt 1080
catgggctat ctgaactggt gtcagcggtg caagtcgtcc cggagcgttc tgaagatgaa 1140
gatcccccac gccggcaagc ttctcattca gggaatgga 1179

<210> 4308
<211> 414
<212> DNA
<213> A.fumigatus

<400> 4308
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ccgcccacgg ccaagcgtca gaatgccacc cccatcgtgg agattgcaga ctttgatgaa 120
gactctgact ccgagtcatc cttgagtgat gcgcctagct ttgacgacga accacttgcg 180
aaaagggacc ttcagaaaca gaagaaacaa gcttccgatg gctccgaatc cgagtctgag 240
tccgacgacg atgacgaggt ggattgggag gacgcgatag actccaaact cacctgtacg 300
tcgatctcga cgccggctcc cgctgtgcaa gatctcgaat tgacattgga caagaatgag 360
gtacatttgg ctgatatcgc agatgggaag aaaggtccct ccaagaccga gctt 414

<210> 4309
<211> 249
<212> DNA
<213> A.fumigatus

<400> 4309
aaacggacac aaggtggtcg ctctagcgaa tctgtacccg tctacatcca gacaggcggg 60
ccagtaccgc tgcaaaggac agtcatgaag atctcaagaa ggaagaagga acagaagacg 120
aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa gaagaagaag 180
aagaagaaga agagaaagaa gaagctcagg gtcaagaaga agagcccata tcaccaaacc 240
gcccaatga 249

<210> 4310
<211> 312
<212> DNA
<213> A.fumigatus

<400> 4310
ccccaattac gggaagactg gtctcacgaa atccaattcg ccctccgtgc aatcctgttc 60
aaactttcta tatgggatca taatgcctcc tacggtgctg ccctccaggg actgcgatac 120
gtcgatagtc gcagcaaagg gcccgtccat tctaccccca caaaatggca aaagagccta 180
tatggcttac tcacagttgg tggtcgctac gcctgggaga aatgggagtc atggttgatc 240
agtcaagaag gcggttatga agaggtatta tctggaacat tttttgttgg aacttatatg 300
gacttgtgct aa 312

<210> 4311
<211> 726
<212> DNA
<213> A.fumigatus

<400> 4311
ctgaagcagc catcgcggga tgttcgaatg ctggctcggc tcacaggttt agtctccacc 60
acacactcaa tcgcagcttt cgtttcattc ctcgtcttcc tagtgaacgg ccgataccgg 120

acactagtcg accgaatcct tcgcatacgc cttacccctc catcagctca gtctgctcgc 180
gaggtgtctt ttgaatacct caatcgacaa ctcgtatggc acgccttcac cgaatttctt 240
ctcttcctgt tgcctcttgt tggaatcagt aggtggcggc ggtggttgtc cagagcatgg 300
cggaaagcaa tatctgccat cagatcaagg gatgacgatg aagtggaagt agagaagcgg 360
ggagaattgg cgttccttcc agagcgaaca tgtgctatat gctacaaaga ccaaaatcct 420
gcctctactt cggaaaacga tatcattaca gcgtcggccg ggggtatcgt cgggtctgca 480
cagacagaca tcacaaaccc ttacgaaacg gtcccgtgtg gctgcatata ctgcttcgtt 540
tgccttgtgc agaaggtgga aggagaggaa ggcgaaggct ggatttgttt acgttgcggc 600
gagatcgtaa aaaagtgcaa gccatggaat ggcgacgtcc ttgaagaagt tcgaccgtcc 660
acaacctccg gaaaaattgt ggggttcgct atgcttcacc acggggctgg aaggagcgct 720
gctaat 726

<210> 4312
<211> 441
<212> DNA
<213> A.fumigatus

<220>
<221> unsure
<222> (26)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 4312
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gatagtacga tgagctcaac aaactttgcc gccgctcagg aacgagtctt agaacgccgc 120
cgcttgcgcg aggctgaagc tcgcaaacgg ctggcggaac agcagcgtgc atcaccactg 180
aaccatccgg cgctcaaccg acttccgtac cccttgaaca gaatcccgca gtccggtgtc 240
acgttatgga actccatcaa ggggcgagaa ggaagcagac ctgctttccg tgttggtcaa 300
gtggatgccg agctcctcga tgaagagttg ctggggctgc ttaaggggca ggttggaaat 360
gctttgaagt acttcggggt atggcctaat gtcgctgcaa ttccagtcgc ctatctcagt 420
atcactaatt gtctgtcttg a 441

<210> 4313
<211> 888
<212> DNA
<213> A.fumigatus

<400> 4313
gcagcaagtc ctttatctct tgctgacgcc agtccccttc caactgcagc aaacgccatg 60
acgggtctcg cgcaatgccc tgcacaggtg gtcgaggaaa tcgacgcata cctggatctg 120
acggatgtgg gcaatcttcg acagactaat cgacgtctta ggtctcaagt cacccaggga 180
cggtttcgat tgaacttccg ctctaagcgt gtcaaaatca cgggagcaca cctgcaacag 240
ctaggccttt tgacacagcg tggttggctc ggctgcgaaa ctcgccacct aacgctggtc 300
ggcgtggtta acgacactat ggctcttgac gccggcctca aagcagacgc aaccaatccc 360
aggaagcgag acttggcgat tcttcaacag cggcgacagg attatgagca actgctggag 420
tcagggaaga ttgtgcagct tctcagccag gcttttaagt acctggcgac gaatagcgcc 480
gagaggaaac tccaatccct ctcgctcgag gttaccgtgt accgtcaaga tgcggaacgc 540
gaggtaactc ccctggctgg cagtagttgg aggcttgtct ggcagactac ggcagagacc 600
ttccggattg tattggcggc tctacagaaa agcctcctgg cggttgatta tttgaatgtc 660
ttcaatggtt cctacatgca gcgatgcagc ctggagagtc gggagctgtc ccagattgat 720
tatcataacg agaggctctc caaagtcctt ggagctctga aagctttgtc tatcagtgtt 780
tccgaccgga ttctctggct cacaccccaa gacgcccagc gctccagcga tggttcggct 840
gatgtgatcg attggtcgga cgatgagcac gatagacgca tcgactaa 888

<210> 4314
<211> 798

<212> DNA
<213> A.fumigatus

<400> 4314
gatccgggtc ttttgcgctt gccacattcg gcgaataccg taacatatct acacaatatc 60
atgcttgaca tactctccct gaggacggaa gctgaacatg gcctggcgga ttcaatattg 120
acagcaacgc atcaatatgc ccttctacag cgtgcatcta tactcgataa ccgcttagca 180
cagtgggagg accgagttgc gccagagaac aaacctatca caatagccca tatgcgaccg 240
ggcagtgacc cctatattga agtcggacat tggcccggcc cattgcatat gtacacagac 300
cttcgcgcgg cagccctcct taacatcagt cgcgttgcgc gatgctacct ccttgacatc 360
attctcaggc tcaaggatat gcaggctgac accggcaacg atgataaaga gagagcaact 420
gctgtccagc tcattcagga ctttacctcc tcaatcccgt atcacctagt tgaggacttg 480
cattcattct ccatgagtgt ccagcgcggc aatcccattg agccgcctgg aagagcagtt 540
ggaggattac tgctgatgta tcccctgtac attgcttcgc agctatctat tgtgtcggta 600
cagtttcagg actacttcaa acggtgtcta gtctggattg gacaaaacac gggagttgga 660
tatgcttctc tgttggctaa ggtgagatat actgtcacag gtcacagtct ctgttatgct 720
aatggacagt caaaggccca tttcaatatt caagatctaa ctgcaggatg catcattgtg 780
tatggcggat tgctataa 798

<210> 4315
<211> 420
<212> DNA
<213> A.fumigatus

<400> 4315
tgttgcgttg tattgctggt gacaaaacta atggaagcag gagctttgaa catgtcgcgc 60
gctcttggag atctgcagta caagaaccca ctgaacaatg atactatggg ccccagcact 120
gcaggccagg aaatagccgc catgacgccg tcgatcgaac agggcagctt tgtgtcttct 180
gagccgtcta tcatccgggt agatctgcgg caggaccgtc ggtatatcct ggctttgacg 240
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catgagggag gactgggggt gcagcaggtg gccgacgagc ttgtccgggg cgttacacag 360
ggtgagcgga gggataatgc tacatgtatt gcggtgtttc tggatggatg tttgtcttga 420

<210> 4316
<211> 576
<212> DNA
<213> A.fumigatus

<400> 4316
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tgccttgatg acctctttct cttggaacga aggagtcctt tcttttccga ggcgtgcatc 120
aacgcggcgc ggcggacaga tcggttgacc gaccatgcga cgagcccacg ccatgccagc 180
actgccagcc caataaagcc tagagctgca cctacagcaa taaacaccgt tccttcgggc 240
gtgttcgatt tttgcatgta cggcgcatcc gctgtcggtg gcacggtcac cacagggaaa 300
ccgtctgtag aggatgcaga cgttgcagtc gagcctgctg agtcggtggt agagactgtc 360
gacgtcgtcg ctgcatcagt agttgtagag gcttccgtag ttgaggtttc actactcgtc 420
gaagcttttg tggttgtggc gtcggtcgtc gatgtcgaat cggttgtctt tcccgtgtct 480
gtagtcgctg ggtctgtggt cttcgttcca tcggtcgttt gcgcagtagt tgcagcatcg 540
ttggtggagg gatcccgctg ggcagaggcc agttga 576

<210> 4317
<211> 396
<212> DNA
<213> A.fumigatus

<400> 4317

tgcagcgacg acgtcgacag tctctaccac cgactcagca ggctcgactg caacgtctgc 60
atcctctaca gacggtttcc ctgtggtgac cgtgccaccg acagcggatg cgccgtacat 120
gcaaaaatcg aacacgcccg aaggaacggt gtttattgct gtaggtgcag ctctaggctt 180
tattgggctg gcagtgctgg catggcgtgg gctcgtcgca tggtcggtca accgatctgt 240
ccgccgcgcc gcgttgatgc acgcctcgga aaagaaagga ctccttcgtt ccaagagaaa 300
gaggtcatca aggcattccc gcgctgtacc tgcgagcatg tcactcgaaa agctttcccc 360
acaccaccgc aacagctaca acccaagagc acctaa 396

<210> 4318
<211> 1095
<212> DNA
<213> A.fumigatus

<400> 4318
gcccctccga cgatgagatt ccgcaatgtg gggcgtgcga agccccatca gcgctccatg 60
acattgcttc tatttctcct gatcgttgtg ttggctcaac tggcctctgc ccagcgggat 120
ccctccacca acgatgctgc aactactgcg caaacgaccg atggaacgaa gaccacagac 180
ccagcgacta cagacacggg aaagacaacc gattcgacat cgacgaccga cgccacaacc 240
acaaaagctt cgacgagtag tgaaacctca actacggaag cctctacaac tactgatgca 300
gcgacgacgt cgacagtctc taccaccgac tcagcaggct cgactgcaac gtctgcatcc 360
tctacagacg gtttccctgt ggtgaccgtg ccaccgacag cggatgcgcc gtacatgcaa 420
aaatcgaaca cgcccgaagg aacggtgttt attgctgtag gtgcagctct aggctttatt 480
gggctggcag tgctggcatg gcgtgggctc gtcgcatggt cggtcaaccg atctgtccgc 540
cgcgccgcgt tgatgcacgc ctcggaaaag aaaggactcc ttcgttccaa gagaaagagg 600
tcatcaaggc attcccgcgc tgtacctgcg agcatgtcac tcgaaaagct ttccccacac 660
caccgcaaca gctacaaccc aagagcacct aatatcccca gtactggtag cggtctcttt 720
ttctctccta ccgcaggcgc cggaatgcat acaagcggaa acagaggatc cagctacctt 780
ccggcgggct attatgctgc aggaaacgct gcgcccacgg ggagtcagaa tatcccatac 840
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ccccctaggt cgccgggtct gtcgcctagc ggcttccatg acactcacta cgatccttcc 960
accaggcatt cgtatgttgc aggctccacc agctcgttga atcttgcctc tccgacacat 1020
ggaagaaccc ccagtgcgtt cctagaggat cttttcgaaa gtcatgcccc tcaatcggac 1080
aacggtcata gatga 1095

<210> 4319
<211> 738
<212> DNA
<213> A.fumigatus

<400> 4319
tcatcatccc acttccacaa gtttgccttt ataccggagt cctttgatga ctgtgatctc 60
tccaccctta gtacgatgat tgctgtggta cctgtctcgc gggaacatct ctctcagcct 120
cctctgaatc ttcagcgacg cgccatggca caaacttatt acctggactc acctgatatc 180
gccacgttca aaaatccccc acaacattac tctcagcgag attgtcccag tccgattact 240
tcgtctgccc catcctcggt tcctccctca cctcattttg cgccggtaac tgaagagcag 300
ctacttccta ctccagcaac ccttagcagt ctgtctctct ccgtgagcaa cgatagcgac 360
gacgagatca tcctaccttc atatgattcg agccacttca acgacttgaa cgaaatcgtg 420
tcagctgttg cctcggacca ggcctcggag tcatttctca cgggaccccc ttgtttgcat 480
gtacatacgc cggccgctga tgatacttcg gttgaagagg agccgactag gcatgtcgat 540
tatctctccc atgagtggaa agaggaagat atttgggctt cttggaaata tgtcgtttgc 600
cgcagagaca tttacagcaa tggcgcgaga ttagagaatg cctcttggcg gacttgggca 660
aaactgaaga ataacttggg aacggtgtcg cccgagaccc tcaattggtc agtactgcat 720
actctcgcgt tccattaa 738

<210> 4320
<211> 225